

IDRA DESALINATION & REUSE HANDBOOK

2023-2024



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WATER DESALINATION REPORT

Water Sources for the Future



**Shannon McCarthy,
Secretary General of the International Desalination and Reuse Association**

Ms. McCarthy has over 30 years of experience working internationally and specifically with the Middle East and North Africa region on water sustainability, research, and the application of non-conventional water resource technologies. She has served the International Desalination Association as First Vice President, Chair of the Foundation and Public Outreach Committee, member of the Operations Committee, Constitution and Bylaws Committee, and champion for establishing the IDA Sustainable Water Resources Foundation. In 2017, she was appointed Secretary General, an officer on the Board of Directors acting as Executive Director.

In 2023, IDA celebrates 50 years as an advocate and connection point for the global desalination and water reuse community. With over 2 billion people today lacking access to clean drinking water and an expected increase in water demand of more than 50 percent by 2050, desalination and reuse are essential technical solutions for supporting the sustainability and security of water for drinking, agricultural, and industrial needs in arid, drought-prone communities, especially coastal communities. As part of an integrated water resources management strategy, desalination and reuse can help preserve freshwater sources and support water security.

Over the last 50 years, countries across the Arabian Peninsula and North Africa have come to depend heavily on desalinated water, and no other region on earth desalinates so much water. The MENA region accounts for over 60 percent of the world's total desalination capacity. For years, rulers from Saudi Arabia, the United Arab Emirates, Bahrain, Kuwait, Oman, and Qatar have secured clean drinking, agricultural, and industrial water for their people through desalination systems that transform seawater into a steady supply of fresh water. Australia, Chile, and Spain are good examples of countries outside the MENA region where desalination offsets water needs. At the same time, Israel, Singapore, and the United States use desalination and a significant amount of water reuse. Other water-stressed countries, including countries in North Africa and island nations, have tapped the oceans. Even in the American Southwest, officials and urban planners are increasingly looking to desalination and reuse as partial solutions for cities whose water supplies are under pressure due to years of drought and the effects of climate change.

As the 17 UN Sustainable Development Goals can only be achieved by ensuring sustainable water management and supply, IDA is an active advocate to the UN that

unconventional water resources, specifically desalination and reuse, are crucial tools in the fight against water scarcity caused by climate change.

Our members continue to innovate and bring solutions to the world. We are honored to work alongside them to promote these solutions and help secure water for all, as the civic advantages and societal rewards of desalination and water reuse are clear. With the world's drinking and agricultural water supply at risk and so much industrial water and wastewater going untreated, these processes offer practical and functional solutions for water security. Collectively, we must continually push innovation and drive new technology to offset climate change's inevitable environmental effects.

I am grateful to our esteemed publishing partner, Mr. Christopher Gasson from Global Water Intelligence, for his exceptional leadership in diligently covering the sector and supporting the IDA throughout the years. I also thank the dedicated GWI team for their hard work creating the IDA Handbook.

IDA is in the process of rebranding the association as the International Desalination and Reuse Association (IDRA), and we are pleased to launch this handbook under this new name.

Sincerely,

Shannon McCarthy

Hosted by the Abu Dhabi Department of Energy

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Foreword

The IDRA Desalination & Reuse Handbook is designed to connect decision makers facing water scarcity with the leading desalination, reuse solutions providers. As the successor to the IDA Desalination Yearbook, this publication demonstrates the range of available solutions to water scarcity, covering desalination and wastewater reuse. By highlighting the complementary solutions, the Handbook aims to provide decision makers with information to inform a holistic strategy for water security. In addition to market analysis, commentary, and profiles of desalination and reuse around the world, the IDRA Desalination & Reuse Handbook contains two inventories of plants and projects:

- The 36th GWI/IDRA Worldwide Desalting Inventory found on pp. 32–36 covers desalination plants contracted between 2022 and 2023. The Inventory is collected on an annual basis by Global Water Intelligence (GWI) and aims to be a comprehensive dataset of every desalination plant with a capacity greater than 500 m³/d.
- The GWI Water Reuse Inventory found on pp. 37–39 covers water reuse plants contracted since 2019, with a capacity of 5,000 m³/d or greater and using tertiary or more advanced treatment technology.

The IDRA Desalination & Reuse Handbook is published by Global Water Intelligence and the International Desalination and Reuse Association in partnership with the Global Water Leaders Group, a non-profit organisation which facilitates communication and knowledge-sharing between utilities. Readers are encouraged to contact Hugo Birch at hugo.birch@globalwaterintel.com for more information if they would like to know more about a case or profile featured in this book. Global Water Leaders Group is the publishing and events partner of GWI.

The primary units of measurement used in the IDRA Desalination & Reuse Handbook are the cubic metre and (for smaller quantities) the litre, measured on a per day basis. A cubic metre of water is one thousand litres, and weighs one metric ton. Other units of measurement used in the desalination and water reuse industry include gallons and acre-feet in the USA, and imperial gallons in many Middle Eastern countries. These units are most commonly expressed on a per day basis, but in some cases a per year basis is used. The following set of conversions is included for the reader's convenience.

1 cubic metre (m ³)	=	264.2 US gallons or 1,000 litres
1 imperial gallon	=	1.2 US gallons, or 4.55 litres
1 acre-foot	=	325,900 US gallons, or 1,233.6 m ³
1 megalitre	=	1,000 cubic metres
1 gigalitre	=	1,000,000 cubic metres
1 MIGD	=	4,546 m ³ /d
1 MGD	=	3,785 m ³ /d
1 MGD	=	1,120 AFY (acre-feet/yr)
1 kilometre	=	0.621 miles or 1,000 m
1 metre	=	3.280 feet or 1.094 yards

All calculations are based on 365 1/4 days per calendar year. Wherever possible, monetary values are given in their original value with a conversion into US dollars using exchange rates valid as of 31st August 2023.

This report was written and edited by Hugo Birch and Millie Gall.

The Reference Directory was compiled by Hatim Amin, Shaokun Chang, Edgar Karara, Oyin Oyefeso, and Santosh Shah.

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Proofing by Georgia Bottomley, Jasmine Chater, Louis de la Pasture, Malin Hedlund, and Charlie Walker.

The information in this Handbook is based on feedback from companies taking part in GWI's annual survey and is vital for accurate and insightful market analysis. International Desalination and Reuse Association (IDRA) members are encouraged to send references to hugo.birch@globalwaterintel.com.

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Executive Summary

Market profiles

Seawater and brackish water desalination

The seawater and brackish water desalination markets are now well into their post-COVID recovery period, with 4.4 million m³/d of new capacity awarded in 2022, and 2023 set to be even larger. Worsening water scarcity, expanding populations, growing industrial centres, and replacement of aging thermal desalination installations remain the key drivers of new capacity.

Desalination is also seeing growing serious interest from national decision makers as an important part of their countries' long-term supply mixes. This interest is reflected in new, large-scale building programmes in countries such as Egypt, China, and Morocco, which, together with activity in the traditionally key markets of the GCC region, are expected to drive the desalination sector to new heights in the next five years. The GCC remains the leading market for seawater desalination by a significant margin, with mega projects (>250,000 m³/d) in the region accounting for more than a third of all new capacity awarded in 2022. Meanwhile, extensive activity in historically smaller markets outside the GCC such as Algeria has led to yet more mega projects in the past year. Seawater desalination remains limited in North America but brackish water desalination is growing steadily.

Desalination plant sizes are continuing to grow ever-larger with mega projects comprising the majority of new capacity awarded in 2022-23, driven by increasing water demand and economies of scale.

Wastewater reuse

Although not reaching the heights of 2021, 2022 was another strong year for the wastewater reuse market, with 12 million m³/d of new capacity contracted. Water scarcity, urban population growth and demand from water-hungry industrial and agricultural users are the main drivers, motivating increasingly strict regulations around freshwater withdrawals and ambitious government targets for reuse.

Recent capacity has been concentrated in Asia Pacific and MENA, which account for 59% and 20%, respectively, of globally installed capacity over the past decade. This trend is set to continue, with the leading markets in both regions investing heavily in reuse. Industry primarily drives demand in Asia Pacific, while agriculture is by far the dominant consumer across the MENA region. Meanwhile, uptake of potable reuse, which makes up a small but significant portion of total capacity, is accelerating, particularly in North America, Sub-Saharan Africa and Asia Pacific. Tertiary treatment remains the largest technology segment, but triple barrier has seen the fastest growth.

Inventories and resources

Featured desalination and reuse projects

Each year the IDRA/GWI Handbook includes profiles on a selection of recently commissioned desalination and wastewater reuse projects that have marked a step forward for the industry in the past year. With tables of technical specifications included, the four profiles listed in this publication are an invaluable reference tool for anyone looking to keep up with the industry's latest developments and successes.

Featured desalination technologies

This Handbook also includes profiles of selected recent innovations in the field of desalination technology. These range from system configurations to energy recovery devices and represent the continuing pursuit of new efficiencies and optimisation in the desalination market.

Desalination and water reuse inventories

This publication includes two exclusive inventories: the 36th Worldwide Desalting Inventory and the GWI Reuse Inventory. The former includes almost 200 seawater and brackish water desalination projects contracted worldwide in 2022-23. The latter features almost 150 projects contracted since 2019 with a capacity in excess of 5,000 m³/d which have been selected for this publication. Both the desalination and reuse inventories are available to GWI DesalData subscribers. These inventories form the fundamental basis for the data and market analysis presented in the desalination and reuse market profiles.

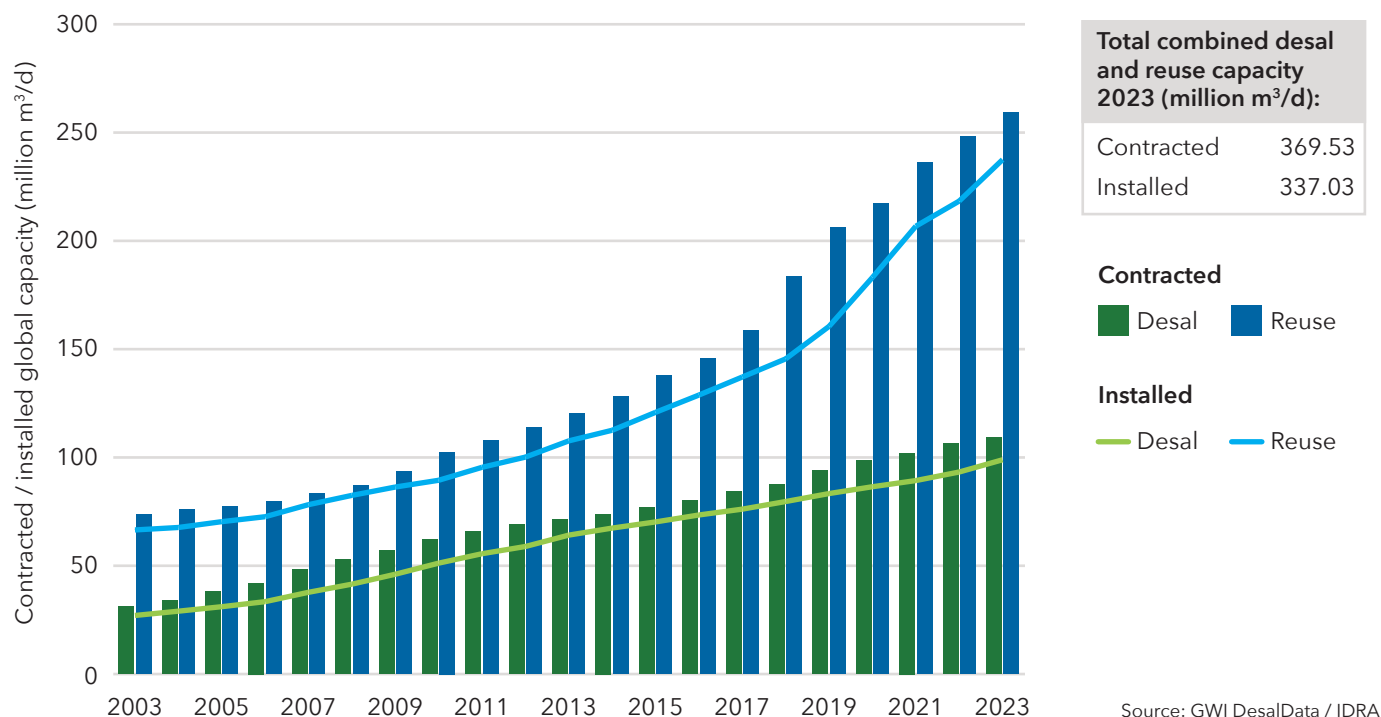
Reference directories

This Handbook contains a set of eight directories which categorise players in the fields of desalination and wastewater reuse by company expertise, aiding you in finding your next client, partner, or supplier. Each entry includes desalination and wastewater reuse project references which have been collected from the company. Listed details include the role the company played in the project, the project name, the country in which the project is located, award date, capacity, and technology. These listings give an at-a-glance summary of a company's track record and areas of activity, along with contact details and office locations. It is worth noting that some project references are confidential and so cannot be directly published within these directories. However, the capacities of these projects are included in the market data found in the market profiles.

Visit www.globalwatersecurity.org to view our company listings online.

Global capacity

Global cumulative contracted and installed capacity by year, 2003-2023

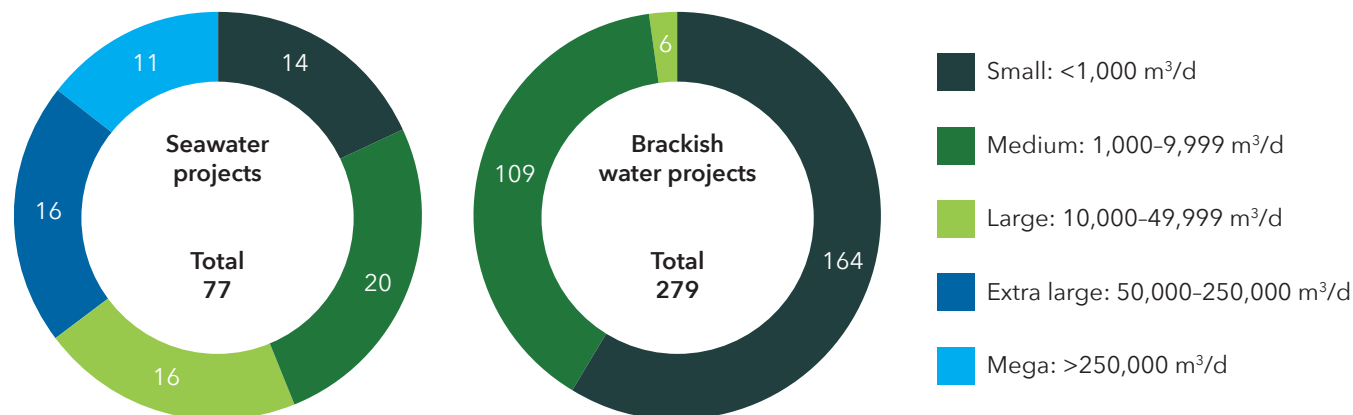


NB: 2023 figures are forecasted end-of-year.

Year	Global desalination capacity (million m ³ /d)		Global reuse capacity (million m ³ /d)	
	Contracted	Installed	Contracted	Installed
2023	109.22	98.93	259.33	237.51
2022	106.50	93.28	248.20	218.38
2021	102.08	89.33	236.35	206.77
2020	98.67	86.49	218.10	183.11
2019	93.96	83.33	206.18	160.53
2018	87.32	79.66	183.67	145.52
2017	84.31	76.14	158.80	137.15
2016	80.24	73.44	145.81	128.82
2015	76.73	70.24	137.64	120.83
2014	73.90	67.39	128.20	112.56
2013	71.48	64.15	120.49	107.66
2012	68.94	58.89	113.90	100.16
2011	66.00	55.56	107.76	95.45
2010	61.96	51.20	102.54	89.46
2009	56.86	46.08	93.60	86.34
2008	52.70	41.50	87.10	82.49
2007	48.43	37.74	83.25	78.21
2006	42.02	33.42	79.47	72.64
2005	38.24	31.10	77.50	70.35
2004	33.88	29.02	75.91	67.67
2003	31.32	27.05	73.75	66.53

Seawater & brackish water desalination key numbers

Number of desal plants reported awarded worldwide, 2022-2023



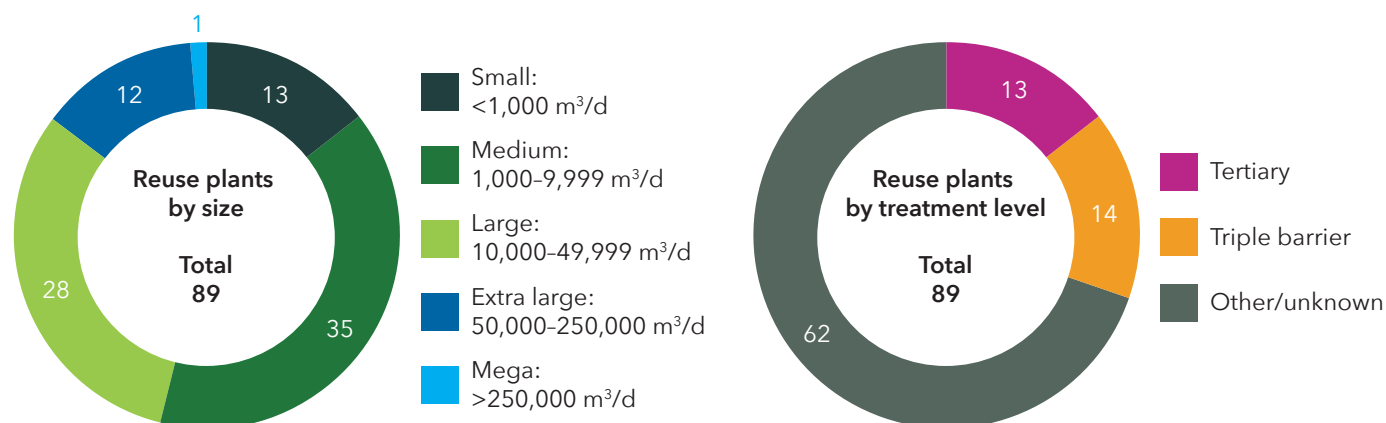
Source: GWI DesalData / IDRA

Top 20 largest desal projects worldwide

Country	Plant	Capacity (m³/d)	Award date	Online date	Supplier	Status
Saudi Arabia	Jubail 2 Replacement SWRO	1,000,000	2022	2025	Metito	Construction
United Arab Emirates	Taweelah IWP	909,000	2019	2022	Abengoa (now Coxabengoa)	Construction
Saudi Arabia	Shoaiba 3	880,000	2005	2009	Doosan Enerbility	Online
Saudi Arabia	Al Jubail	800,000	2007	2010	Veolia Sidem (Societe Internationale De Dessalement d'Eau de Mer)	Online
Saudi Arabia	Ras Al-Khair (MSF)	728,000	2010	2016	Doosan Enerbility	Online
United Arab Emirates	Umm al Quwain IWP	681,818	2019	2022	Veolia Sidem	Construction
Israel	Soreq 2	670,000	2020	2023	IDE Technologies Ltd.	Construction
United Arab Emirates	Jebel Ali M Station	636,440	2007	2013	Fisia Italimpianti	Online
Saudi Arabia	Khobar 2 replacement SWRO	630,000	2019	2022	Acciona Agua	Construction
Israel	Soreq	624,000	2010	2013	IDE Technologies Ltd., Hutchison Water Limited	Online
Saudi Arabia	Rabigh 4 IWP	600,000	2023	2026	Wetico	Construction
Saudi Arabia	Shoaiba 3 Conversion Project	600,000	2022	2025	Doosan Enerbility	Construction
Saudi Arabia	Rabigh 3 IWP	600,000	2019	2022	Abengoa (now Coxabengoa)	Online
Saudi Arabia	Jubail 3a IWP	600,000	2020	2022	Abengoa (now Coxabengoa), Lantania	Construction
Saudi Arabia	Shoaiba 5 (SWCC)	600,000	2020	2023	Advanced Water Technology	Construction
Saudi Arabia	Jubail 3b IWP	570,000	2021	2023	Acciona Agua	Construction
Saudi Arabia	Yanbu 3	550,070	2012	2017	Doosan Enerbility	Online
United Arab Emirates	Mirfa 2 IWP	545,520	2023	2026	Veolia Sidem	Construction
Algeria	Magtaa	500,000	2009	2014	Hyflux	Online
Kuwait	Az Zour North 1 IWPP	490,970	2014	2016	Veolia Sidem	Online

Reuse key numbers

Number of reuse plants reported awarded worldwide, 2022-2023



Source: GWI DesalData / IDRA

Top 20 largest reuse projects worldwide

Recently awarded 2022-2023

Treatment level: ● Secondary ● Tertiary ● Triple barrier

Country	Plant	Capacity (m ³ /d)	Award date	Online date	Primary reuse sector	Status
Egypt	Al Hammam WWTP	7,500,000	2021	2026	Agricultural irrigation	Construction
Egypt	Bahr al-Baqar WWTP	5,000,000	2019	2021	Agricultural irrigation	Online
Mexico	Atotonilco WWTP	2,000,000	2010	2015	Agricultural irrigation	Online
Egypt	Abu Rawash WWTP	1,600,000	2015	2021	Agricultural irrigation	Online
Egypt	Al Mahsama WWTP	1,000,000	2018	2019	Agricultural irrigation	Online
China	Beijing Gaobeidian WRP	1,000,000	1990 Phase 1 1994 Phase 2 2014 Reuse	1993 Phase 1 1999 Phase 2 2016 Reuse	Industry	Online
U.S.A.	EchoWater Sacramento Regional WWTP	821,345	2018	2022	Agricultural irrigation	Construction
United Arab Emirates	Jebel Ali STP	675,000	2007 Phase 1 2016 Phase 2	2010 Phase 1 2019 Phase 2	Landscape irrigation	Online
China	Beijing Xiaohongmen Reclaimed Water Plant	600,000	2002	2005	Agricultural irrigation	Online
Kuwait	Sulaibiya Wastewater Treatment and Reclamation Plant	600,000	2002 Phase 1 2015 Phase 2	2004 Phase 1 2019 Phase 2	Agricultural irrigation	Online
U.S.A.	Orange County Groundwater Replenishment (GWR) System	522,450	2004 Phase 1 2012 Phase 2 2019 Phase 3	2008 Phase 1 2015 Phase 2 2022 Phase 3	Groundwater recharge	Online
Kuwait	Umm al Hayman WWTP	500,000	2020	2023	Urban non-potable use	Construction
Syria	Adra WWTP	485,000	1994	1997	Agricultural irrigation	Online
U.S.A.	Steven M. Clouse Water Recycling Center	473,175	1984	1987	Agricultural irrigation	Online
U.S.A.	San Jose/Santa Clara Water Pollution Control Plant	416,395	1950	1956, 1998 (water reclamation)	Landscape irrigation	Online
Jordan	As-Samra WWTP	365,000	2003 Phase 1 2012 Phase 2	2008 Phase 1 2015 Phase 2	Agricultural irrigation	Online
Italy	Milano San Rocco WWTP	345,600	2002	2004	Agricultural irrigation	Online
Australia	Eastern Treatment Plant	330,000	2010	2012	Agricultural irrigation	Online
Israel	Shafdan Region Water Reclamation Project	328,767	1974	1977	Agricultural irrigation	Online
India	Coronation Pillar WWTP	318,220	2018	2022	Indirect potable reuse	Construction

Seawater & Brackish Water Desalination

Summary

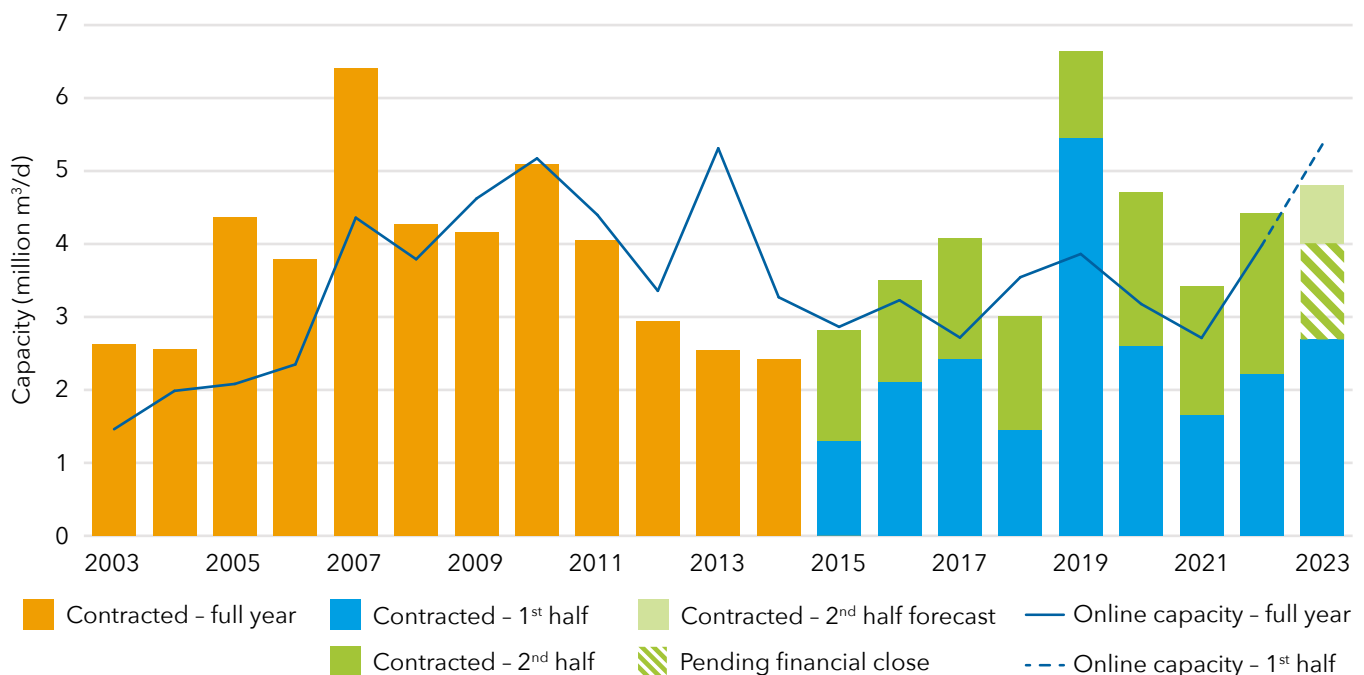
In the wake of the COVID-19 pandemic, the desalination market is now well into its recovery period, with project markets bouncing back from the supply chain issues and price increases that plagued development in 2021. The effect of this has been a significant uptick in the volume of newly awarded seawater and brackish water desalination capacity in 2022, amounting to 4.4 million m³/d, compared to just 3.3 million m³/d in 2021. 2023 is set to surpass this with 2.7 million m³/d awarded in the first half of the year, for a forecast end-of-year figure of 4.8 million m³/d.

Although the new capacity figures for 2022 and 2023 (forecasted) are the sixth and fourth highest respectively since the turn of the millenium, the numbers represent a marked downward revision of pre-COVID forecasts, reflecting the reality of a more long-term slowdown in project procurement. Even as supply chains recover, some projects remain on hold with little indication of resumption in the near future, while for active projects, the price of engineering, procurement, and construction (EPC) work has increased by up to a third. The result of this is a leaner project pipeline than expected pre-pandemic and higher capital expenditure per cubic metre of capacity at projects that do progress.

The overall cost of desalinated water at independent water projects (IWP) has remained low despite higher EPC capital costs. Crucial to this have been low-cost energy, long contract tenors, and increasing economies of scale. Dubai’s retendered Hassyan exemplifies this well, with low-cost renewably generated electricity, a long 35-year offtake agreement, and a capacity exceeding 800,000 m³/d all contributing to a record-breaking levelised cost of water (LCOW) of just \$0.3675/m³. By contrast, Abu Dhabi’s smaller 545,520 m³/d Mirfa 2 IWP, with more expensive energy and a shorter 30-year offtake agreement, saw a significantly higher winning bid price of \$0.48/m³.

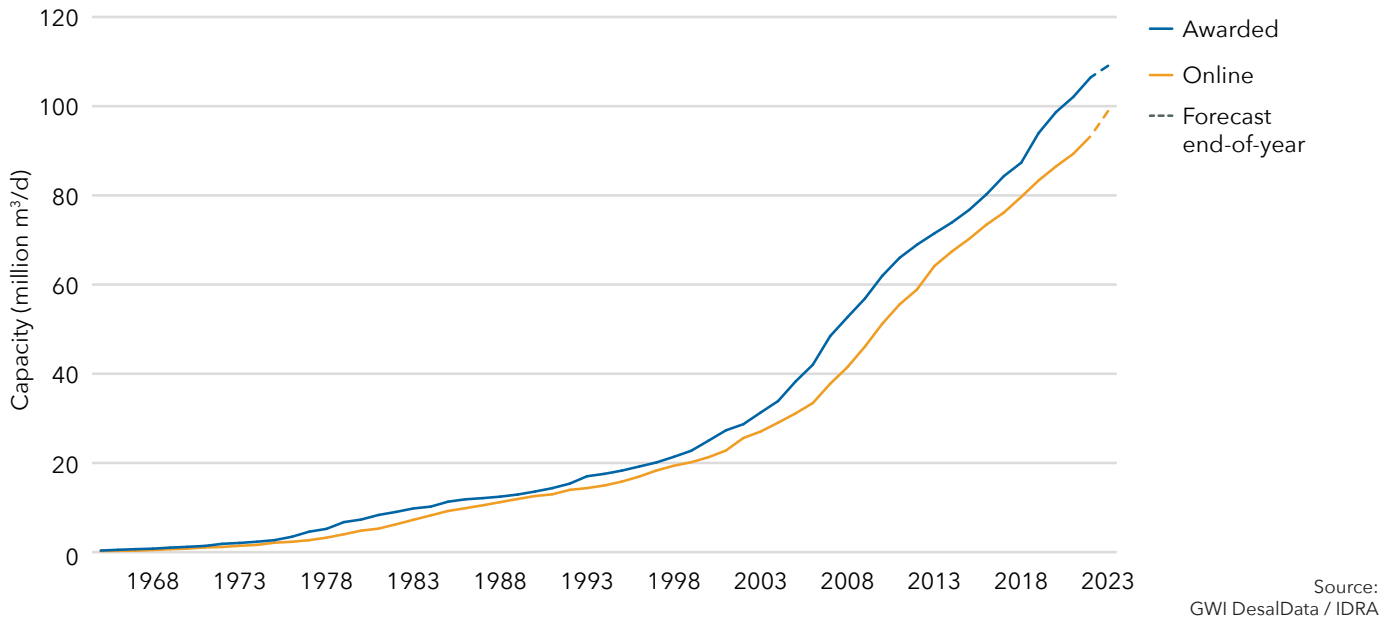
Plant sizes are contiuning to grow ever larger with mega projects (>250,000 m³/d) comprising the majority of new capacity awarded in 2022–2023. The Gulf Cooperation Council (GCC) region remains the key regional market for this kind of activity, with mega projects in the region accounting for 39% of all new capacity awarded in 2022. This is reflected in company rankings with large-scale seawater desalination projects continuing to be predominantly developed and supplied by a small number of companies experienced in the GCC project markets.

Incremental contracted and online desalination capacity by year, since 2003

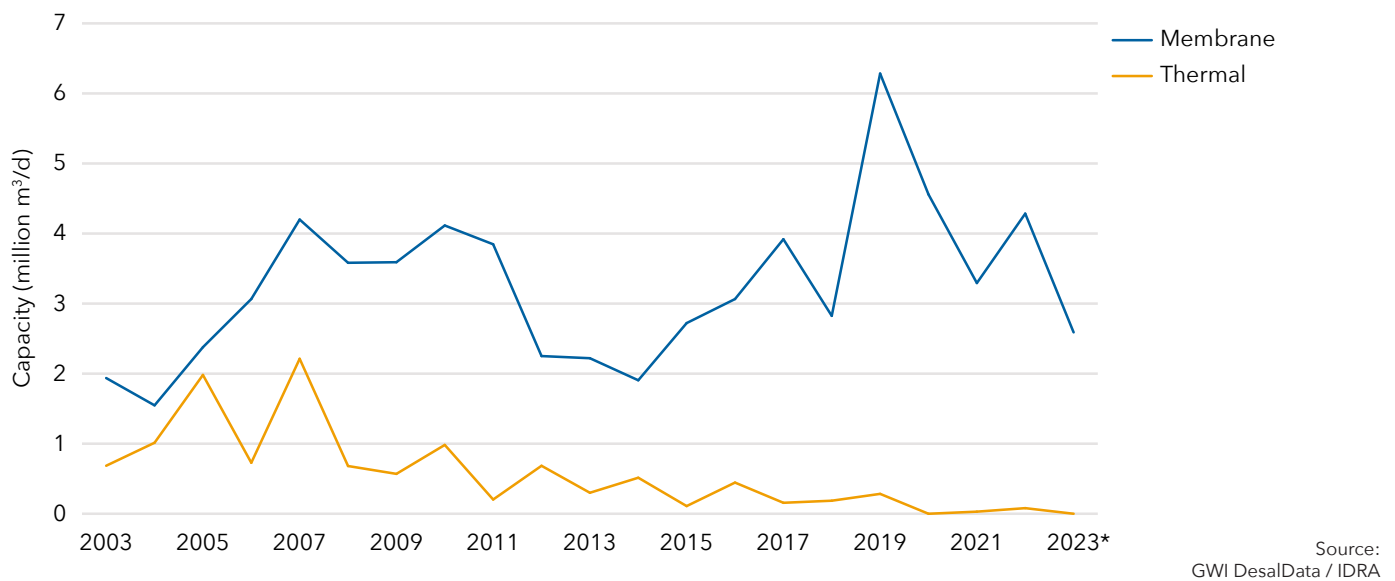


Source:
GWI DesalData / IDRA

Cumulative contracted and online desalination capacity, since 1968



Additional contracted desalination capacity by technology, 2003-2023



NB: Desalination market profile charts include seawater and brackish water desalination only. All 2023 data values (asterisked) are for first half of year only unless otherwise stated.

Extensive new building programmes in historically smaller markets outside the GCC, such as Algeria, have led to the award of still more mega projects, comprising an additional 19% of 2022’s yearly total. Further building programmes in China (2.4 million m³/d) and Egypt (3 million m³/d by 2025 and 10 million m³/d by 2050) are set to drive significant investment in coming years as decision makers move to make desalination a more integral element of their long-term water security strategies.

On the developer side, ACWA Power and ENGIE retain their dominance over new mega projects in the Gulf, whilst among plant suppliers, Metito and Wetico take the top spots for 2022–2023, each securing large-scale project contracts in Saudi Arabia and Algeria, with Metito also picking up the contract for India’s largest seawater desalination project. Meanwhile, Veolia has strengthened its position in 2022–2023, completing the acquisition of Suez’s Water Technologies & Solutions (WTS) business, and Doosan Enerbility has kept momentum from its return to the mega project markets to pick up another large contract in Saudi Arabia.

By region

GCC

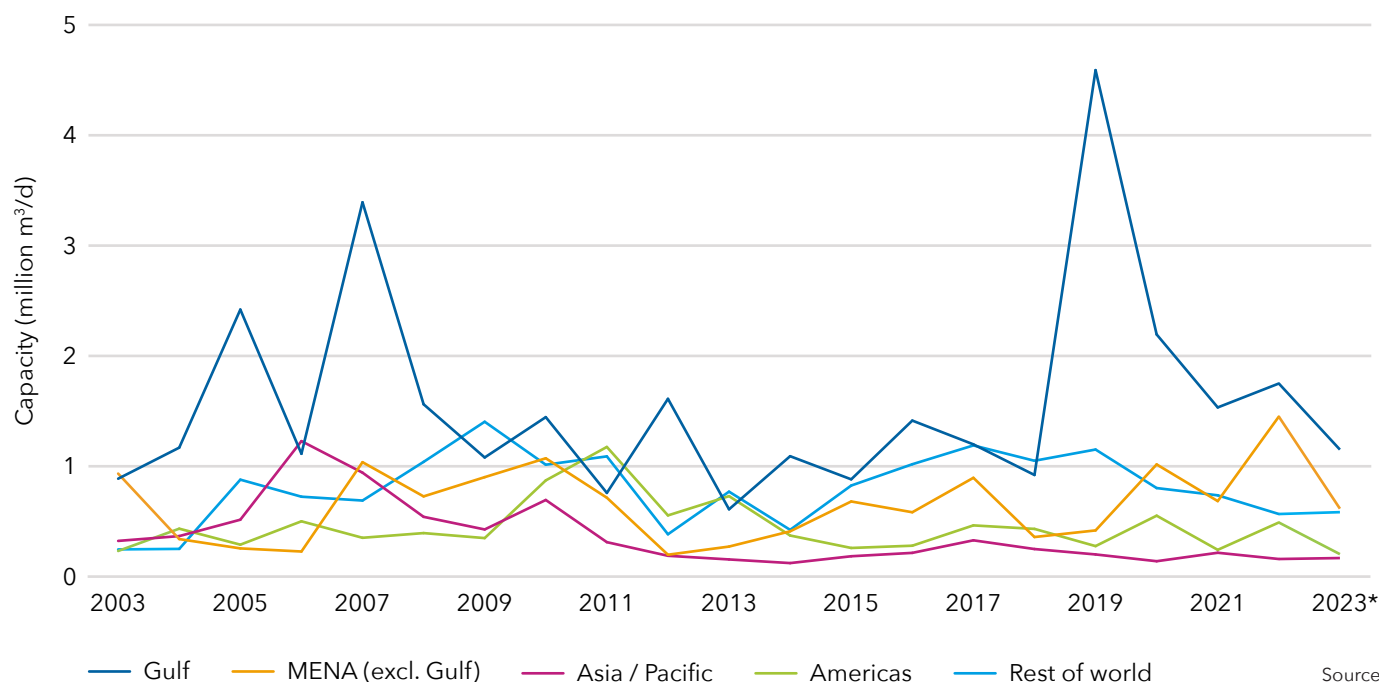
For seawater desalination, the key markets remain the member states of the GCC region, particularly Saudi Arabia, and the United Arab Emirates. In total, projects from these countries accounted for 2.49 million m³/d in 2022, 57% of the global total. The majority of this figure comprises mega projects in Saudi Arabia which alone accounted for 1.6 million m³/d across two projects: the Jubail 2 Replacement (1 million m³/d) and Shoaiba 3 Replacement (600,000 m³/d) SWRO plants. Behind these projects are three key drivers: ever-increasing demand for potable water in the face of worsening climate change and expanding populations, a lack of readily available freshwater, and the replacement of outdated and operationally costly thermal desalination installations with more cost-effective membrane-based plants. These drivers are most pronounced in Saudi Arabia which has both the largest population of the GCC states and largest existing base of thermal desal capacity, the latter of which is the key driver behind the country's two mega projects awarded in 2022.

Similarly, in the UAE, mega projects dominate new capacity with one mega project already fully awarded in 2023 (Mirfa 2 IWP, 545,200 m³/d) and another, to be the second largest in the UAE, expected to reach financial close by the end of the year (Hassyan IWP, 818,280 m³/d). The Hassyan project is in its second iteration after a previous tendering process stalled in 2022, with the original water purchase agreement (WPA) being cancelled. The initial WPA was signed in 2021 at what would have been a record-low price of just \$0.28/m³. The new, higher price of \$0.3675/m³ will still be the new global record but the additional \$0.09/m³ more realistically reflects the costs of producing desalinated water in a post-COVID world.

Other GCC markets (Bahrain, Kuwait, Oman, and Qatar) have seen limited activity in 2022-2023 with only small-scale project awards. However, several large-scale mega projects remain in the pipeline for these countries, most notably in Kuwait (Az-Zour North stage 2/3 IWPP) and Qatar (Facility E and New Qatar IWPPs). These projects are expected to see award within the next five years and together represent 1.45 million m³/d of new capacity for the GCC region.

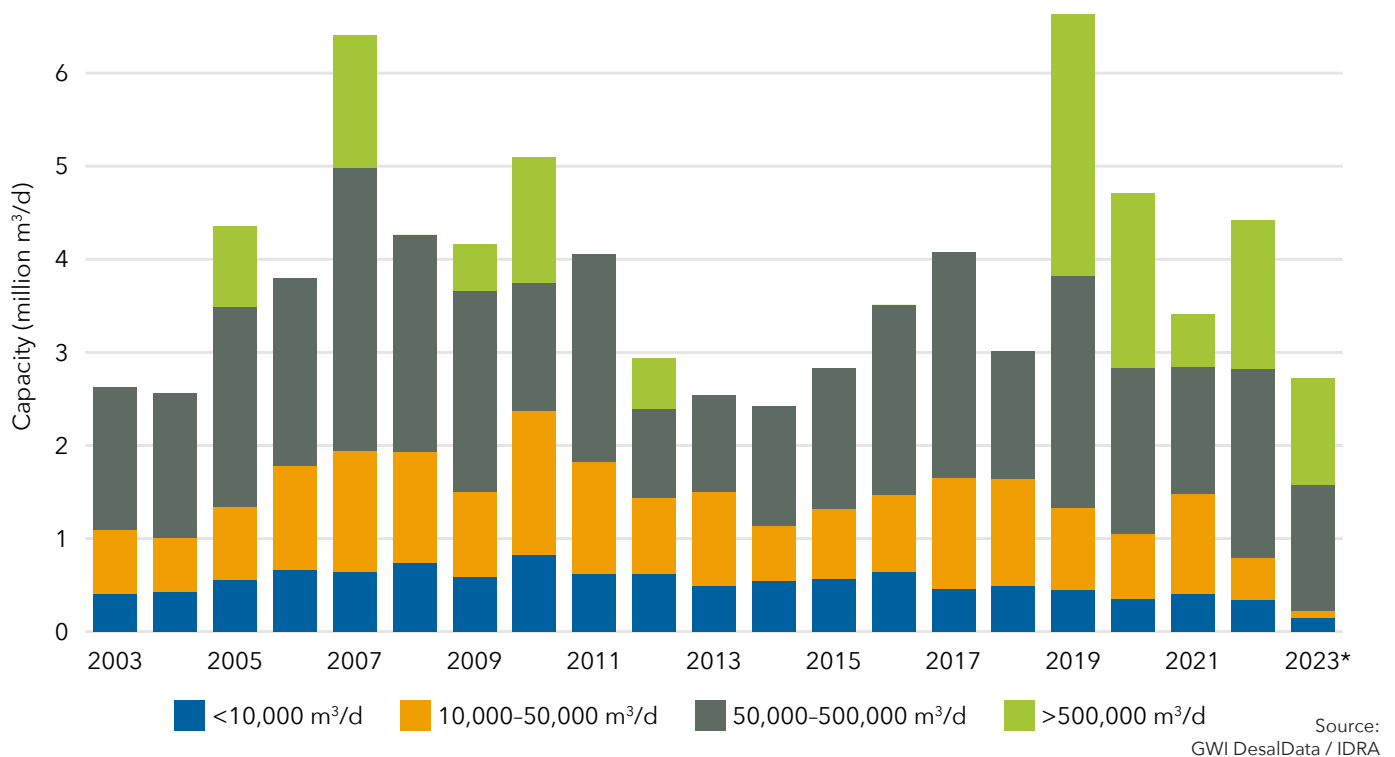
Overall, economies of scale and ever-increasing demand are driving desalination plants in the GCC to become even larger than ever before. The mean size of the 27 large-scale plants (>50,000 m³/d) awarded in the last five years in the GCC is 390,000 m³/d, an average 132% higher than that of the 29 large-scale plants awarded in the preceding five-year period (168,000 m³/d), and 108% higher than the average from the past fifteen years (188,000 m³/d). As desalination becomes an ever more integral component of long-term water security in the region and globally, and stakeholders seek to reduce the cost of desalinated water still further, projects exceeding 500,000 m³/d are only expected to become more common.

Annual contracted desalination capacity by region, 2003-2023



Source:
GWI DesalData / IDRA

Contracted desalination capacity by plant size, 2003–2023



Rest of MENA

In the wider MENA region, the breakout market for the past year has been Algeria, which saw a significant volume of new capacity awarded in 2022–2023 with five 300,000 m³/d mega seawater desalination projects (Béjaïa, Cap Blanc, Cap Djinet, El Tarf, and Fouka). These projects represent a 51% increase over the country's entire previously installed capacity base and reflect a shift to focus on desalination as a serious solution to the country's worsening water scarcity. Furthermore, with the contract winners being new to the Algerian desalination market, these projects mark a fresh new era for desalination in Algeria and a clean break from the troubled past of plants like Magtaa.

Elsewhere, Egypt's sovereign wealth fund (TSFE) has kicked off the tendering process for its expansive desalination building programme. Currently, various consortia have been prequalified to bid for projects within the various size bands. In total, the programme comprises 21 projects which will provide 3 million m³/d of new production capacity by 2025, increasing to 10 million m³/d by 2050. The programme, which is being procured using private finance under the build-own-operate (BOO) or build-operate-transfer (BOT) models, represents a new direction for the Egyptian desalination market, which has historically been characterised by the engineering, procurement and construction (EPC) and design-build-operate (DBO) models. If the programme is successful, privately financed models are expected to become the norm in Egyptian desalination. The majority of the projects are expected to utilise renewable energy sources through the grid. TSFE initiated the prequalification process in 2022, with the RFP for the first package, 3–4 plants in the Matrouh region, now expected to be released in February 2024 after delays pushed the timeline back by several months.

Meanwhile, in Morocco, bids have been received for the first 548,000 m³/d phase of the Casablanca mega project (total capacity: 822,000 m³/d). The bids submitted came in at \$0.46/m³ and \$0.60/m³ and an award is expected in 2024, with the second phase due for completion by 2030. The project will be one of the largest outside the GCC and will be followed by a further three mega projects (Nador, 685,000 m³/d, New Jorf Lasfar, 548,000 m³/d, and Safi, 411,000 m³/d), reflecting a new focus on desalination as a long-term component of the country's supply mix.

Outside North Africa, in Jordan, the 685,000 m³/d Aqaba-Amman Water Desalination and Conveyance Project (AAWDPCP) is expected to see bid submissions opened at the end of 2023 ahead of an award in 2024. Meanwhile, in Israel, the 274,000 m³/d Birkat Miriam SWRO project (formerly Western Galilee) was awarded to IDE Technologies in November 2022 but is still pending financial close. Further desalination projects are expected in the long term but the immediate pipeline remains small. The conflict in Gaza is not expected to significantly affect Israel's existing plans for further desalination but has put plans on hold for a 150,000 m³/d seawater desalination plant within Gaza itself.

North America

In North America, the US is by far the largest market for desalination projects, mostly treating brackish water or wastewater. These projects comprise almost all North American desalination capacity awarded in 2022–23, with no major seawater desalination plants being awarded. Most desalination projects awarded in the US in 2022–2023 are small-scale, treating less than 10,000 m³/d, with a small number of larger exceptions (LA Advanced Water Purification Facility, 57,450 m³/d and San Bernardino Clean Water Factory, CA, Phase 1, 18,925 m³/d). Texas' 11,355 m³/d Alice BWRO project, which began construction in October 2023, is the state's first public-private-partnership (PPP) for an RO plant and is expected to begin producing water in the first half of 2024.

Seawater desalination activity in the US remains limited to Texas and California, with a small number of projects in the pipeline over the next five years (Ingleside, 132,475 m³/d, Brazosport, 189,250 m³/d, Monterey Peninsula, 24,224 m³/d, Corpus Christi, 75,700 m³/d, and Doheny, 56,775 m³/d). In Texas, Corpus Christi has historically been the site of two competing ideas of where to build a seawater desalination project, one proposed by the city and one by the port. However, in March 2023, the competing bodies agreed to cooperate in their approach to meeting potential water shortages and to work together on a single desalination project. Public opposition remains a challenge for the project's development but the unified approach is expected to give the project the drive it needs. Meanwhile, in California, permitting remains the primary obstacle to new seawater desalination projects. However, there is still hope for new projects with the Doheny SWRO receiving its Coastal Development Permit (CDP) in 2022 and entering prequalification in September 2023.

East Asia / Pacific

The desalination market in East Asia / Pacific in 2022–2023 has continued to be shaped by growing industrial demand, with the seven largest projects awarded in the last year in the region all serving industrial end users. Combined with worsening water scarcity across the region, this demand is driving desalination to be more seriously considered by decision makers as a long-term water supply solution.

In China, the largest national market in East Asia / Pacific, a large-scale building programme was announced in 2022 which will see national desalination capacity expanded by 2.37 million m³/d across 18 large-scale projects (mean size: 132,000 m³/d). These projects represent a 37% increase over China's existing 6.32 million m³/d installed seawater and brackish water desalination capacity base. One of the first of these projects to be awarded was won by Suez in early 2023 (Yantai Wanhua Chemical Industry RO, 100,000 m³/d). However, with Chinese project developers looking to keep the supply chain localised to China in the pursuit of lower costs, opportunities for international players to break into this expansive programme may be limited.

Elsewhere in the region, Taiwan approved a new water tariff in February 2023 that raises fees for large water consumers during the dry season and is expected to drive uptake of alternative water sources such as desalination. Two large-scale projects are currently planned in the country, passing environmental impact assessments in July 2022 and currently undergoing feasibility studies. The projects are expected to be tendered in 2024, with construction expected to be complete by 2028, and will serve end users in the cities of Hsinchu (100,000 m³/d) and Tainan (200,000 m³/d) on Taiwan's populous west coast. Meanwhile, in Australia, the ongoing El Niño event may lead to drier conditions and potentially drought, driving further demand for desalination. Several large-scale desalination plants are already under consideration, in South Australia (Northern Water Supply Project, 260,000 m³/d), New South Wales (Sydney Desal Expansion, 250,000 m³/d), and Western Australia (Alkimos Desalination Plant, 150,000 m³/d). The South Australia and Sydney projects are currently at the planning stage while for Alkimos, a partner is expected to be in place by Q1 2024.

Plant sizes are typically smaller in East Asia / Pacific than in the Middle East, with only four plants exceeding the 250,000 m³/d mark, in Australia and Singapore. New projects are typically much smaller than this, with only one project in the last five years exceeding 150,000 m³/d.

Southern Asia

The Indian desalination market has begun to recover after slowing almost to a halt during the COVID pandemic. 2022–2023 saw almost half a million m³/d of new capacity awarded, compared to just 170,000 m³/d in 2021–2022. However, the bulk of the 2022–2023 figure comprises a single plant: the 400,000 m³/d Chennai Perur desalination plant in Tamil Nadu, the country's largest seawater desalination plant. The project was originally intended to be awarded in 2021 but experienced repeated delays throughout the pandemic, only reaching award in March 2023. Elsewhere in India, four SWRO projects in Gujarat that were awarded in 2019 under the hybrid annuity model have still not reached financial close four years later, casting a shadow over the future of hybrid-annuity-based desalination in India.

Latin America & Caribbean

Activity in the Latin America / Caribbean region has taken off again quickly in the wake of the COVID pandemic. Compared to just 97,000 m³/d of capacity awarded in 2021, 2022 saw more than 475,000 m³/d of new projects contracted with a further 215,000 m³/d in the first half of 2023. The 2022 figure represents the third highest all-time yearly figure for the region, reflecting the importance of desalination as a pillar of the region’s long-term supply mix.

Chile remains the key market for desalination projects in Latin America, accounting for 195,000 m³/d of the 2022 regional total, and three of the region’s five large-scale (>50,000 m³/d) projects awarded in 2022. The key driver behind this is demand from the country’s substantial mining industry, which is given lower priority in the abstraction of the country’s limited freshwater resources, in favour of municipal end users.

Elsewhere in the region, Brazil saw the award of a large project at Fortaleza in 2022 but the market otherwise remains characterised by smaller-scale projects, while in Mexico, the previously defunct 378,500 m³/d Rosarito SWRO project has seen new life with a retender expected in the first half of 2024.

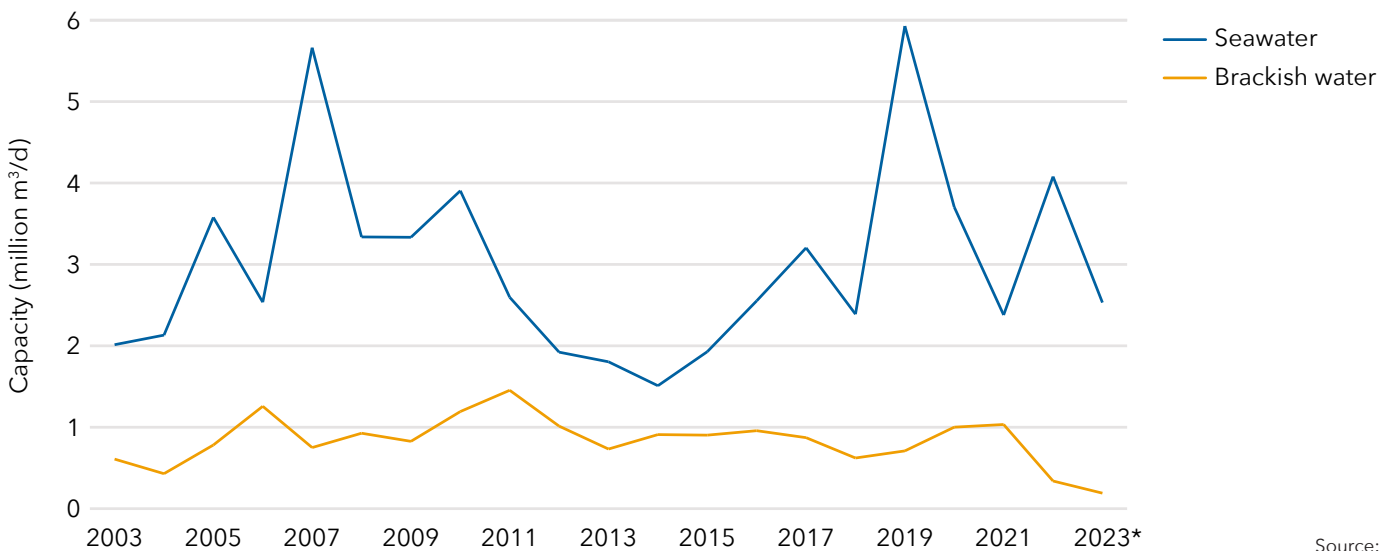
Europe / Central Asia

Desalination in Europe and Central Asia is limited, with just 104,000 m³/d awarded in 2022, and 83,000 m³/d in the first half of 2023. However, in May 2023, the government of Spain, the largest national market in Europe, announced €1.02 billion for the expansion of the country’s desalination capabilities. Short-term plans include capacity expansions at the Aguilas (210,000 m³/d), Torrevieja (240,000 m³/d), and Valdelentisco (140,000 m³/d) seawater desalination plants. The expansions are expected to add 27,000 m³/d, 120,000 m³/d, and 50,000 m³/d of new capacity, respectively. Meanwhile, in Azerbaijan, a new 600,000 m³/d SWRO plant has been proposed by Azersu JSC, the country’s national utility, to supply potable water in the country’s Absheron-Khizi Economic Region. The project is currently at an early stage, with a feasibility study underway, but will be the country’s first large-scale desalination project.

Sub-Saharan Africa

Following the award of Senegal’s 50,000 m³/d Mamelles seawater desalination project in January 2022, the market in Sub-Saharan Africa has seen limited activity. Kenya’s desalination plans remain on hold in the wake of the COVID pandemic, with no progress on the 130,000 m³/d Mombasa desalination plants since 2020. Elsewhere, countries such as South Africa and Namibia continue to prioritise wastewater reuse, and Senegal’s upcoming mega project remains at the design stage with little movement since October 2022. The market has some promising opportunities but, for 2022–2023, desalination in Sub-Saharan Africa has not been a top priority among decision makers.

Annual contracted desalination capacity by feedwater type, 2003–2023



Source: GWI DesalData / IDRA

Brackish water desalination

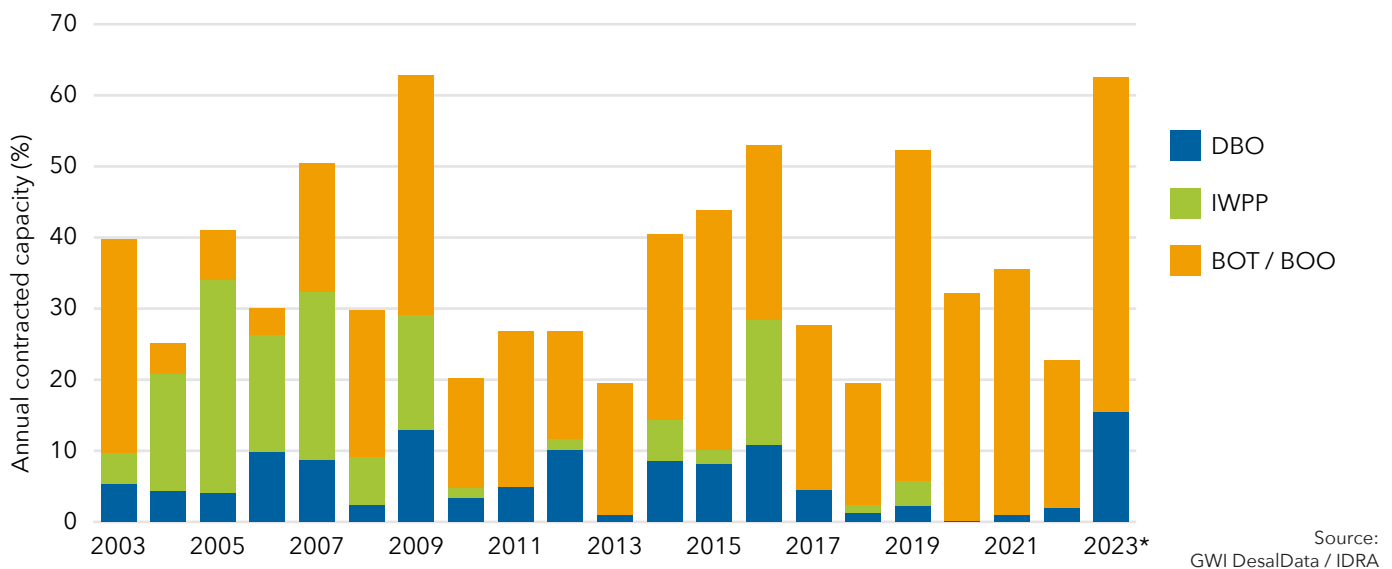
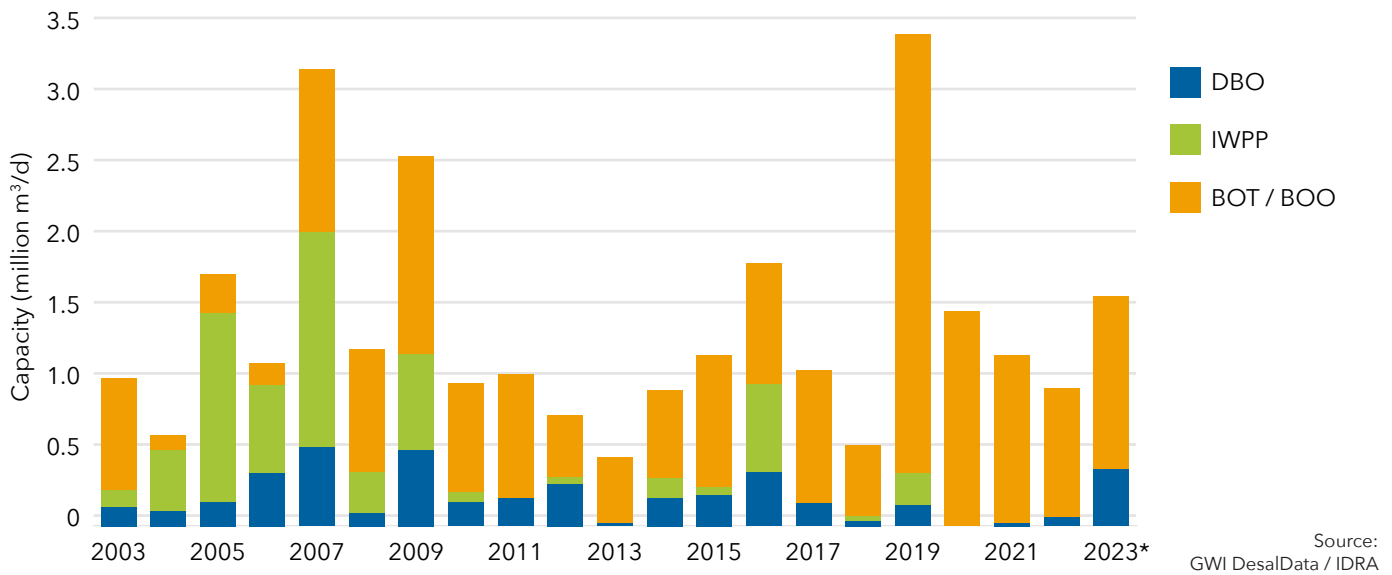
Brackish water desalination capacity in 2022 was significantly lower than seawater desalination. This is largely the result of brackish water projects being much smaller, with the largest brackish water desalination project awarded in 2022–2023 being just 40,000 m³/d (Roy Hill, Australia) and the mean plant size being 2,150 m³/d. Overall, 2022 has been a smaller year for brackish water desalination than 2021 with 470,000 m³/d of new capacity awarded vs more than 1 million in 2021.

The US remains the largest national market for brackish water desal, with total contracted capacity exceeding 7.5 million m³/d. However, the majority (80%) of capacity in the US was awarded more than a decade ago. Instead, China is the fastest growing market, having contracted 2 million m³/d of new capacity in the last decade, an increase of 152% over the pre-2014 figure, compared to an increase of 1.5 million m³/d in the US over the same period. This rapid growth in China stems primarily from mid-size installations serving industrial end users. However, brackish water desalination remains China’s third choice for unconventional water resourcing, behind wastewater reuse and seawater desalination.

Private sector involvement

2022 saw a lower percentage of large-scale projects awarded using private finance than in preceding years, with just 21% of new capacity awarded using the build-own-operate (BOO), build-operate-transfer (BOT), and build-own-operate-transfer (BOOT) models, compared to 35% in 2021 and 32% in 2020. However, a third of all capacity awarded in 2022 under the alternative engineering, procurement, and construction (EPC) model was accounted for by a single project: the 1 million m³/d Jubail 2 Replacement Plant in Saudi Arabia.

Annual contracted desalination capacity with private sector involvement, 2003–2023



The GCC remains the largest market for desalination independent water projects (IWPs) but private finance is becoming more prevalent outside the GCC too, with project pipelines in Egypt and Morocco expected to be procured under public-private-partnership (PPP) models, markets historically largely characterised by the EPC and design-build-operate (DBO) models. DBO projects are less common, with just 632,000 m³/d of capacity awarded under the DBO model in the past five years, 400,000 m³/d of which comes from a single project, the Chennai Perur plant in India which was awarded in 2023.

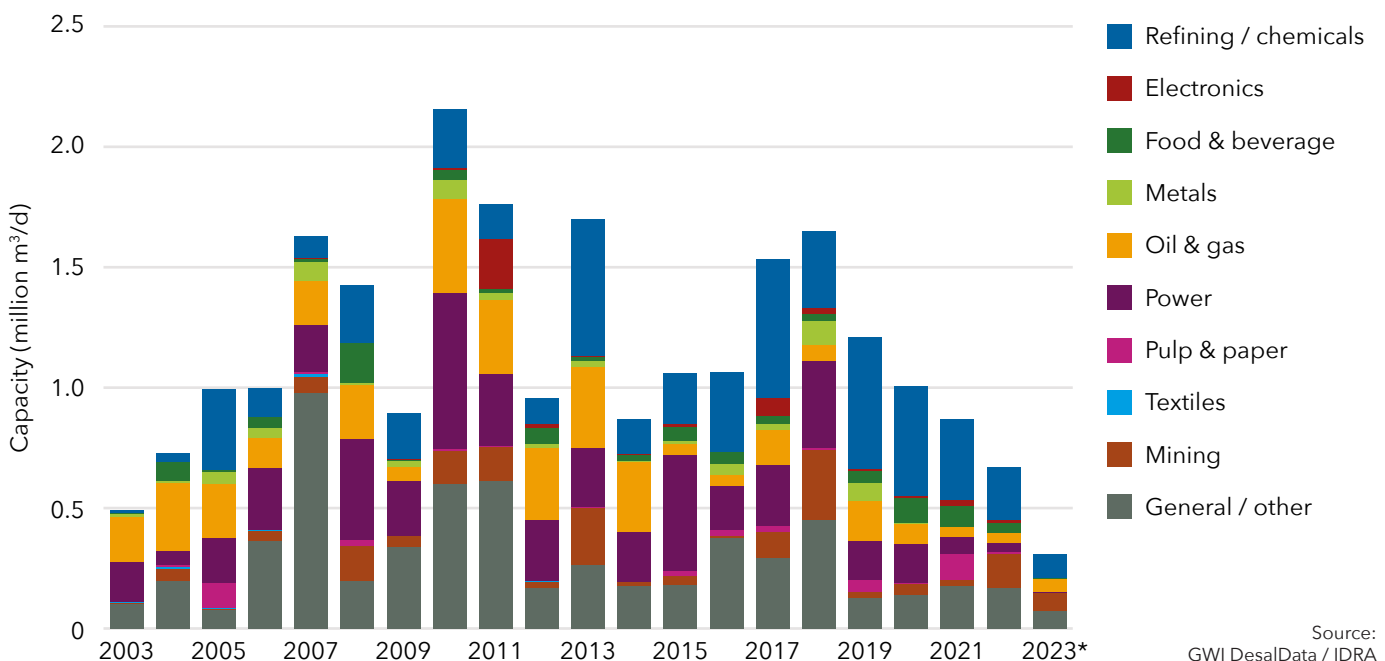
Elsewhere in India, the hybrid annuity model has so far not successfully been applied to desalination projects, proving difficult to implement outside the wastewater sector. The first desalination projects to utilise hybrid annuity were awarded by Gujarat Water Infrastructure Limited (GWIL) at the end of 2019, but have been unable to reach financial close, with delays attributed to the challenges of implementing the procurement model, rather than the COVID pandemic. For the moment, most upcoming desalination projects are expected to still be procured as EPC+O&M or DBO contracts.

The price of water from desalination IWPs has continued to decrease in recent years but has generally plateaued since the outbreak of the COVID pandemic as supply chain disruptions and longer decision-making timelines drove up overall project costs. The original tender of Dubai’s Hassyan IWP was set to break the \$0.30/m³ mark with a water purchase agreement (WPA) signed at just \$0.28/m³ in 2021 but the project was unable to reach financial close at such a revolutionary price in the challenging financial conditions of the pandemic. However, the retendered project is still expected to set a new record-low levelised cost of water (LCOW) when it reaches financial close later in 2023, with the low bid from ACWA Power coming in at just \$0.3675/m³. This will surpass the previous record figure of \$0.405/m³ set by IDE Technologies at the Soreq 2 IWP in Israel in 2020, but also reflects the higher capital costs of desalination post-COVID which have seen EPC prices rise by a third.

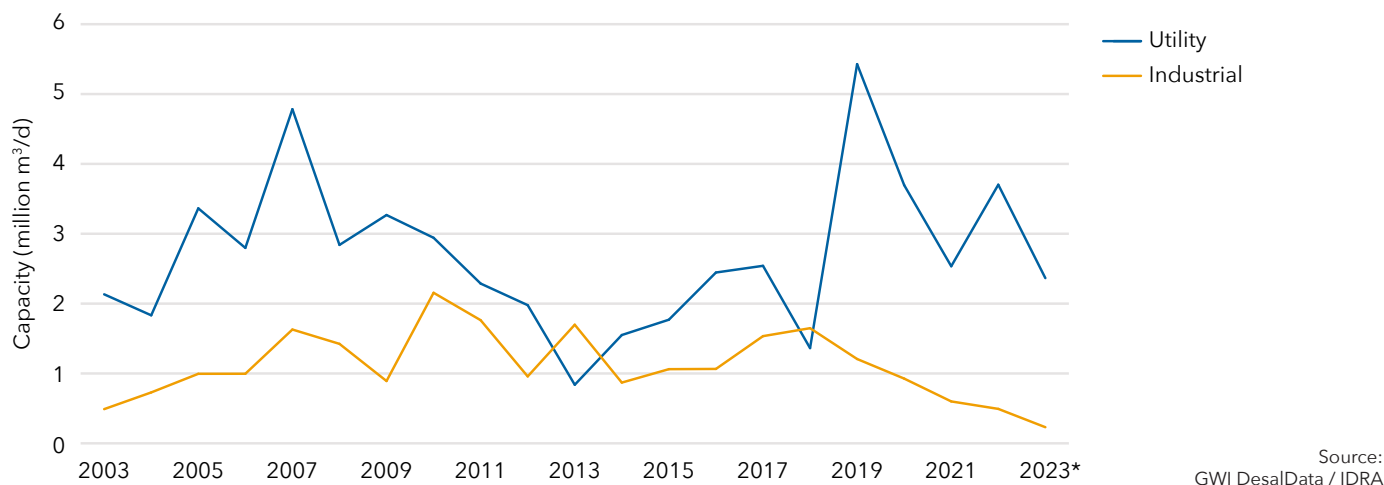
Industrial desalination

Industrial demand for desalination was led in 2022–2023 by refining / chemicals and mining. These sectors accounted for half of all industrial desalination capacity awarded in the last year with activity centred on the two key regions of East Asia / Pacific (refining & chemicals) and Latin America / Caribbean (mining). At the national level, the dominant markets within these regions are China, with its rapid industrial growth, and Chile, where the country’s massive mining sector is required to seek unconventional water resources to meet its demand. All large-scale (>50,000 m³/d) industrial plants, bar one, from 2022–2023 were awarded in these two countries (Yantai Wanhua Chemical Industry RO, 100,000 m³/d); Doña Ines de Collahuasi Mining RO, Chile, 90,720 m³/d; Shandong Yulong Petrochemical RO, China, 80,000 m³/d; Shandong Yulong Petrochemical MED, China, 80,000 m³/d; CODELCO SADDN Mining RO, Chile, 72,576 m³/d; and Ningbo Petrochemical RO, China, 58,080 m³/d).

Annual contracted desalination capacity by industry, 2003-2023



Annual contracted desalination capacity by user, 2003-2023



Plant suppliers

Of the capacity awarded over the last two years, the majority has been won by a small number of engineering, procurement, and construction (EPC) contractors. This is largely due to the dominance of massive mega projects in the GCC which creates a winner-takes-all dynamic and means that companies focussed in the GCC market pull out a significant lead over those primarily active in other regions. However, it is also the result of a more fundamental shortage of companies willing to take on the risks of building massive desalination projects with low profit margins. This problem has become only more pronounced in recent years as EPC contractors have been forced to handle the extensive supply chain issues brought about by the COVID pandemic. Furthermore, the race to drive down the levelised cost of desalinated water has meant EPC margins have been cut down still further. Nevertheless, there is still a strong core of EPC contractors willing to navigate these challenges and take on the work of building some of the water industry's largest projects.

Metito takes the top spot for desalination capacity won in the last two years. Critical to this was the EPC contract for the world's largest membrane desalination plant at Jubail in Saudi Arabia, alone accounting for 1 million m³/d. Further large-scale wins were obtained in Algeria with the 300,000m³/d Fouka SWRO and in India with the 400,000m³/d Chennai Perur plant. A controlling stake in Metito was acquired in late 2023 by Abu-Dhabi-based investment conglomerate Alpha Dhabi which bought out a 62.2% holding from Mitsubishi Corp, Mitsubishi Heavy Industries, and Gulf Capital.

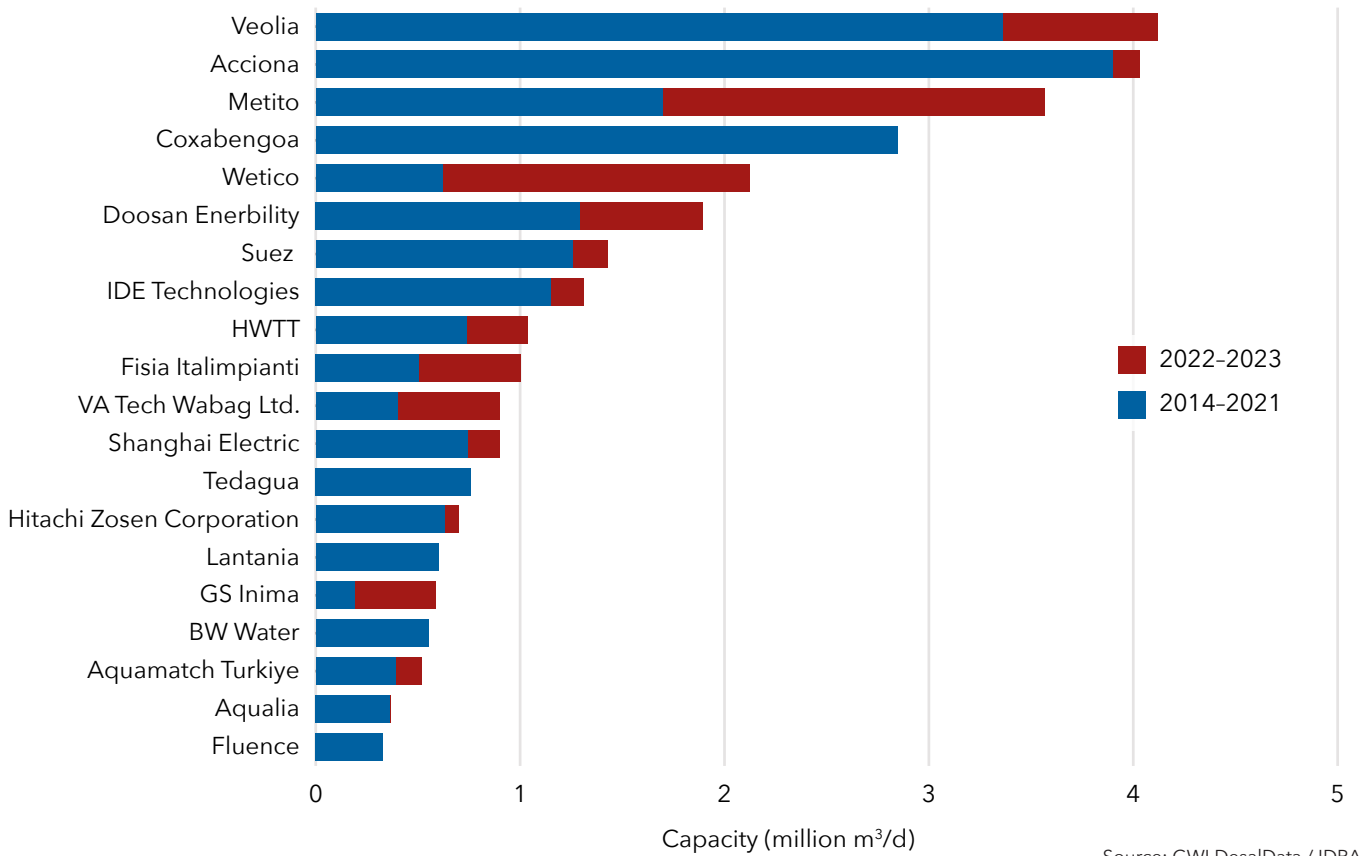
Meanwhile, Wetico burst back onto the scene in style at the end of 2022, winning its largest contracts ever with two 300,000m³/d projects in Algeria. In 2023, the company has kept its momentum from this success, picking up additional contracts for another 300,000m³/d project in Algeria and the 600,000m³/d Rabigh 4 IWP in Saudi Arabia.

Veolia too saw success in 2023 as it picked up the EPC contract for Abu Dhabi's 545,520m³/d Mirfa 2 IWP. The company also further strengthened its capabilities through the acquisition of Suez's Water Technologies & Solutions (WTS) business. This adds a large array of smaller-scale brackish water projects to the company's existing strong large-scale seawater desalination capability through Sidem.

Doosan Enerbility (formerly Doosan Heavy) has continued to build on its 2021 return to the mega project market after a four-year absence, winning the contract to supply the 600,000m³/d project which will replace the existing Shoaiba 3 MSF plant in Saudi Arabia, itself originally delivered by Doosan.

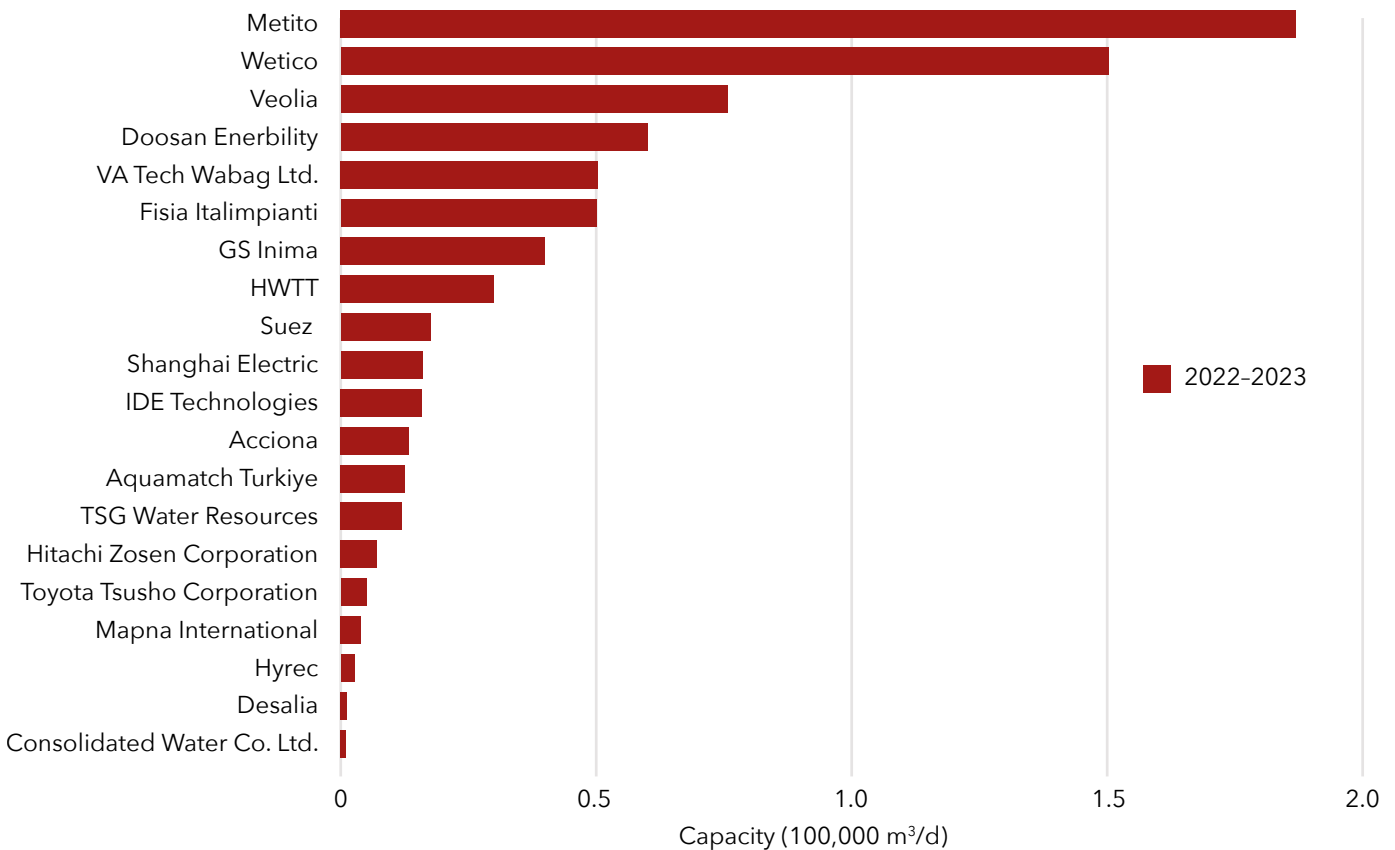
Previous ranking headliner Abengoa was acquired in 2023 by Spain-based renewables company Cox Energy, following protracted financial difficulties. The company has now rebranded as Coxabengoa and is looking to reestablish itself in the desalination project markets, both in EPC work and concessions.

Top 20 plant suppliers by awarded desalination capacity, 2014-2023



Source: GWI DesalData / IDRA

Top 20 plant suppliers by awarded desalination capacity, 2022-2023



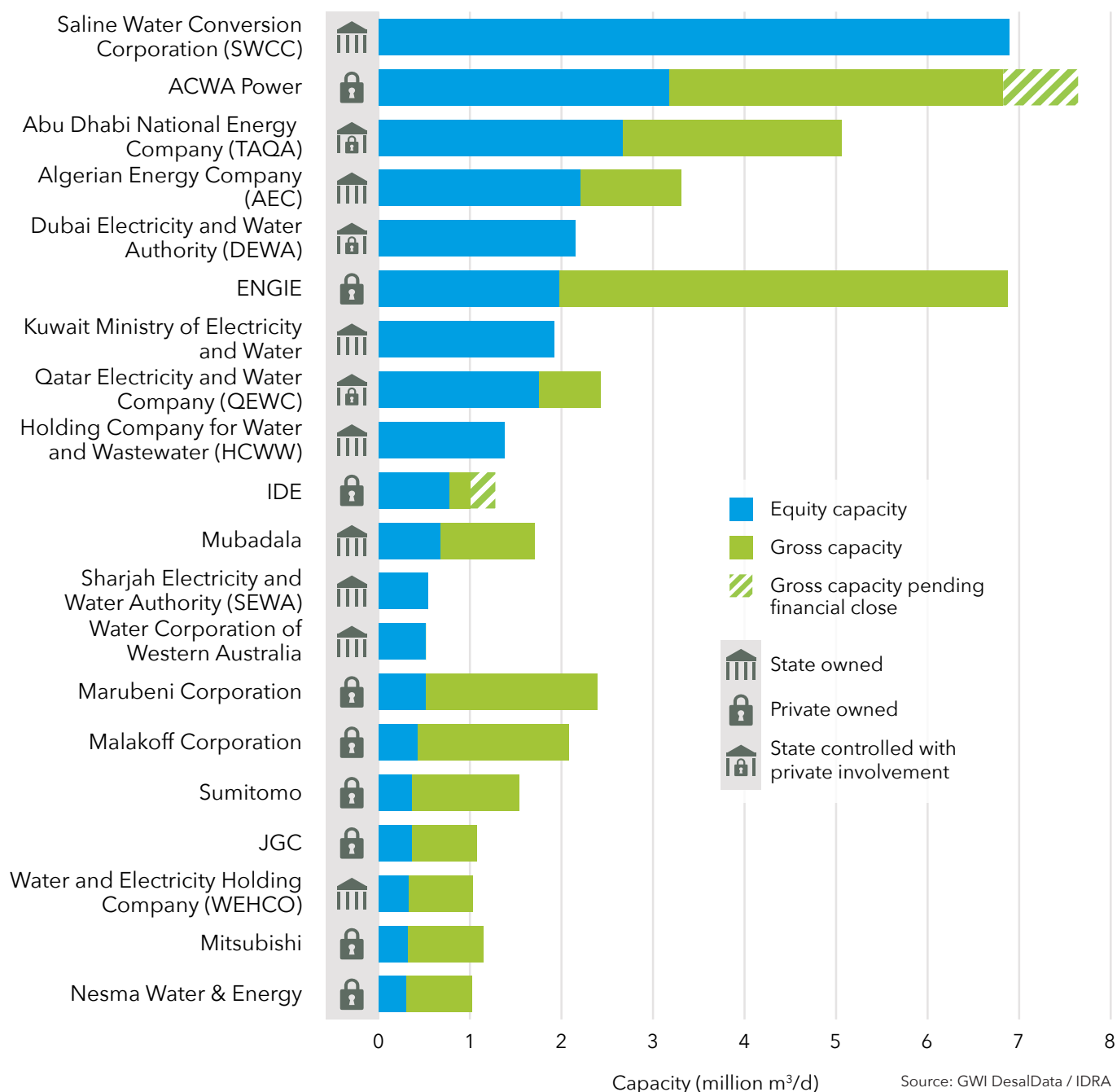
Source: GWI DesalData / IDRA

Plant equity holders and developers

Gulf mega-projects remain key to overall equity rankings, with Saudi Arabia’s state-owned Saline Water Conversion Corporation (SWCC) topping the list on the back of its extensive catalogue of EPC-model desalination mega projects. Although Saudi Arabia’s water sector plan includes the transfer of SWCC’s desalination portfolio to the country’s sovereign wealth fund (PIF), SWCC is expected to retain ownership over its asset inventory in the near future.

Meanwhile, the growth of public private partnerships (PPPs) in recent years has resulted in substantial increases among the privately owned entities on this list. On the private developer side, ACWA Power and ENGIE remain the clear leaders for both equity capacity and gross capacity due to their long-term ability to successfully navigate the notoriously competitive GCC desalination project markets. In the case of the recently tendered Hassyan IWP in Dubai, ACWA Power and ENGIE were the only two entities to submit bids to develop what will be one of the UAE’s largest desalination plants. Hassyan is expected to reach financial close before the end of 2023 and will add an additional 818,280 m³/d to ACWA Power’s total. Elsewhere, IDE retains dominance over projects in Israel, with the 274,000 m³/d Birkat Miriam IWP (also known as Western Galilee) currently pending financial close.

Top desalination developers by contracted desalination capacity



Source: GWI DesalData / IDRA

Municipal Water Reuse Market Profile

Summary

The reuse market has continued to grow at a steady rate in 2022–2023 as increasing water scarcity, regulatory requirements and population growth in urban centres drive up demand for unconventional water sources. Nearly 12 million m³/d of additional capacity was contracted in 2022, which represents a similar figure to 2021 if discounting the 7.5 million m³/d Al Hammam plant awarded in that year.

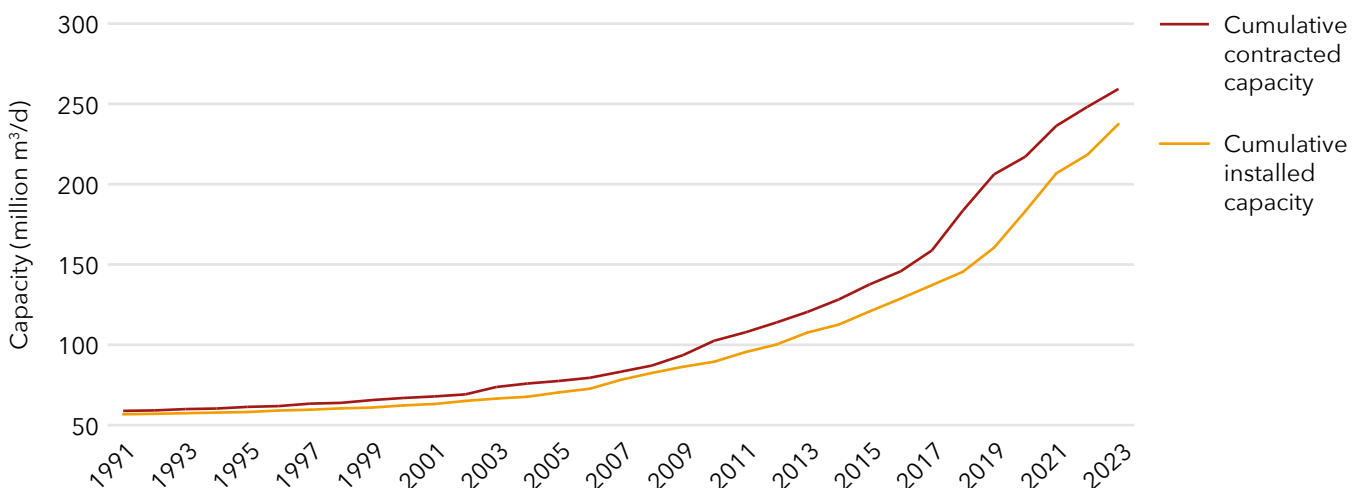
Due to its lower cost, reuse presents an attractive alternative to desalination, and has continued to grow at a faster pace, increasing by 115% since 2013 compared to 53% for desalination. However, many countries experiencing water scarcity, particularly in Sub-Saharan Africa and Latin America, have low wastewater collection and treatment rates and are therefore unable to implement reuse at scale. Conversely, many countries that do have the requisite centralised collection and treatment infrastructure in place do not experience the same pressures on freshwater supply. That being said, with extreme climate conditions increasing worldwide, reuse is likely to become a more desirable option even in regions that have traditionally relied on abundant natural freshwater resources.

Asia Pacific, North America and MENA remain the largest markets for reuse by some margin, accounting for 45%, 22% and 19% of total installed capacity, respectively. The Asia Pacific and MENA regions have seen the fastest growth over the past decade, accounting for 59% and 20% of installed capacity since 2013, with North America's share dropping to 8%. This growth has been driven primarily by China, still by far the largest market in terms of both installed and new capacity, and Egypt, where the award of several colossal plants has seen contracted capacity more than quadruple since 2018. Meanwhile, the Gulf is set for a period of heavy investment in reuse, with Kuwait building out its existing base and both Saudi Arabia and the UAE setting ambitious reuse targets. Western Europe is also likely to be an area of growth, albeit more modest, following widespread drought and the introduction of EU-wide agricultural reuse regulations in 2023.

There are clear regional trends in terms of applications for reused wastewater. Agriculture is by far the dominant source of demand throughout the MENA region, as well as in Europe. Industry is the leading source of demand in Asia Pacific. Potable reuse, meanwhile, is on the rise, particularly in North America and in parts of Sub-Saharan Africa and Asia-Pacific, although it remains prohibited in many countries, and negative public perception is a significant barrier to uptake. 2023 has been a particularly successful year for direct potable reuse (DPR): Colorado became the first US state to promulgate a state-wide DPR rule, with others soon to follow; while the Philippines became the first country in the Asia-Pacific to implement DPR. The US, South Africa, Namibia and the Philippines all have DPR projects in the pipeline.

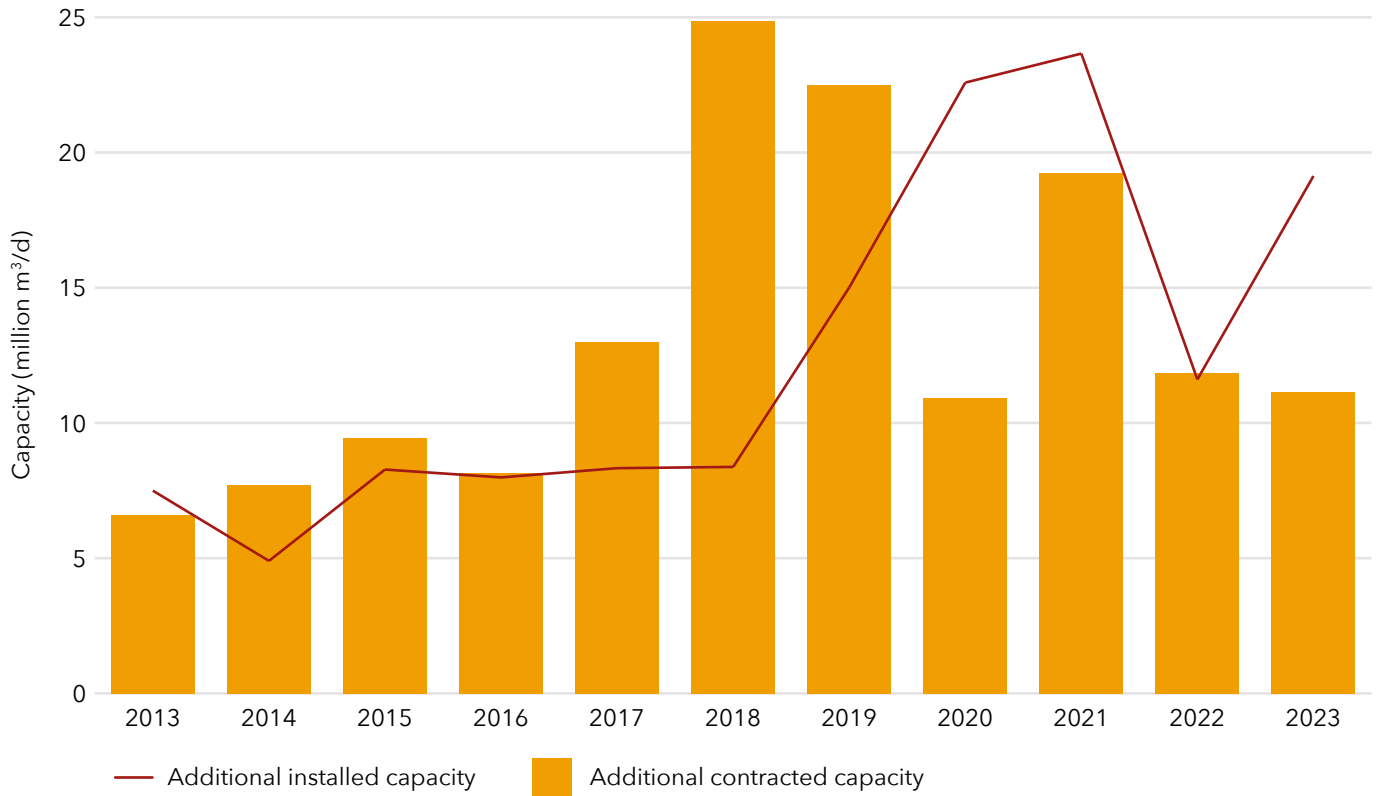
The growth of potable reuse, along with demand for high-quality treated wastewater from industry and agriculture, is driving continued growth of both tertiary and triple barrier capacity, which now account for 43% and 18% of the global total, respectively.

Cumulative contracted and installed reuse capacity by year, 1991–2023



Source: GWI DesalData / IDRA

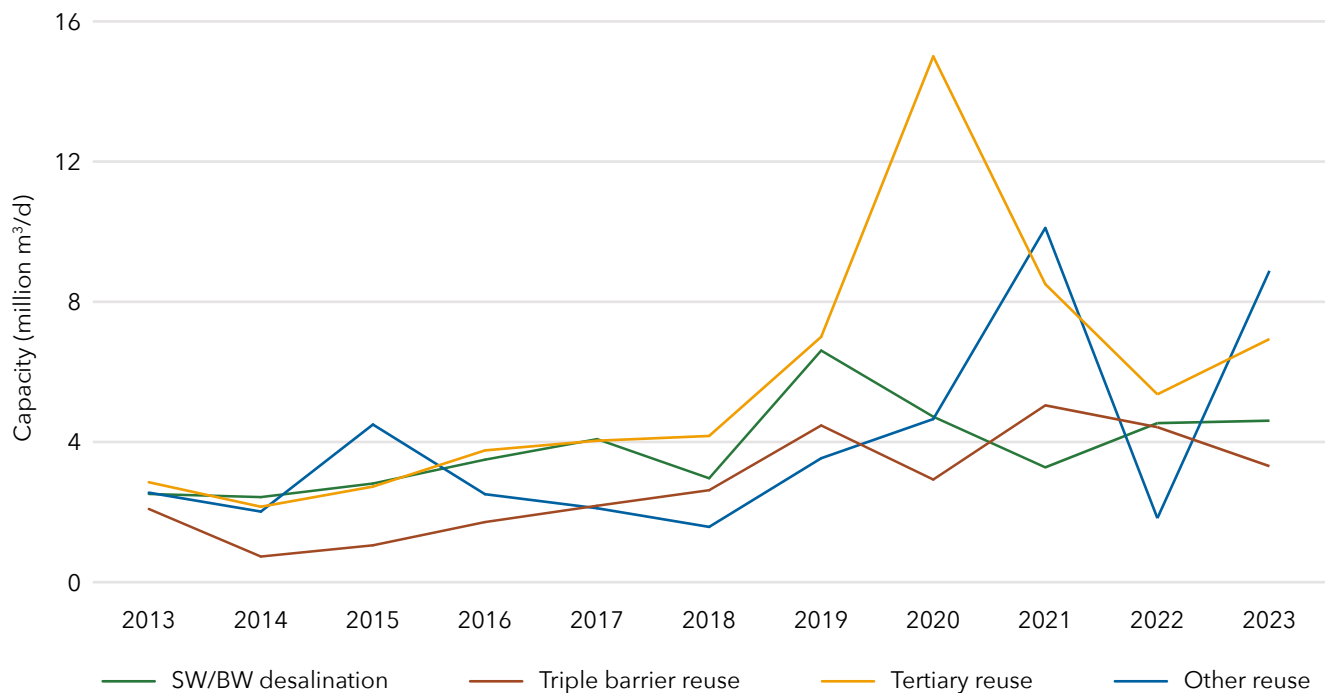
Annual contracted and installed reuse capacity by year, 2013-2023



Source: GWI DesalData / IDRA

NB: Municipal water reuse market profile chart data for 2023 is forecasted end-of-year figure.

Annual contracted desalination and reuse capacity by technology, 2013-2023



Source: GWI DesalData / IDRA

See p.22 for treatment technology definitions

GWl water reuse market data

Historical data for the reuse market is based on the GWl DesalData project inventory, which includes utility wastewater treatment plants where at least some of the treated water is subsequently used for beneficial purposes. This data was previously published in GWl's Municipal Water Reuse Markets 2010 report and updated for the 2020 Desalination & Water Reuse report. To build this inventory, we have used the most comprehensive sources of data available.

For reuse projects that use a desalination technology (e.g. reverse osmosis), we have used the GWl/IDRA Worldwide Desalting Inventory, which is compiled from project references submitted by developers, engineering, procurement, and construction (EPC) contractors, equipment suppliers, and consultants. The inventory aims to be a complete record of every desalination plant with a capacity greater than 500 m³/d. The latest edition of this data is featured in the desalination market profile section of this publication.

The timeliest information comes from reuse projects included in GWl's Project Tracker, which covers projects of interest to major international players and those that are privately financed. For certain countries, we have cross-checked this data with external databases of reuse projects, and national level databases of treatment plants that indicate whether a particular plant treats water for reuse. To check the coverage in this inventory, we have collected aggregated data describing total reuse capacity and volumes of wastewater reused in each country. Where there were significant gaps in coverage, we have made assumptions to estimate the total volume of reuse capacity in the country. Reuse capacity figures for mainland China are based on data published by the Ministry of Housing and Urban-Rural Development (MOHURD), in the absence of project-level data.

Activity by region

Asia Pacific

Demand from the industrial sector, motivated by increasingly strict regulations and water scarcity, is a key driver of reuse across the Asia Pacific region, accounting for almost half of installed capacity. China's reuse market, by far the world's largest in terms of installed capacity, continues to grow at pace, with 6 million m³/d added in 2022, well on the way to the 15 million m³/d of new capacity by 2025 targeted in the country's 14th five-year plan of 2021. The plan required water-scarce regions to raise the reuse rate to 25% by 2025, rising to 35% in urban areas such as Beijing, Tianjin and Hebei. However, these targets have been surpassed by more ambitious ones specified in regional plans released in 2022: Beijing set a target of 70% by 2035, while Tianjin and Hebei are targeting 50% and 45%, respectively, by 2025.

Industrial demand has also traditionally driven reuse in the region's second largest market, India. For example, state-level regulations require large industrial consumers near wastewater treatment plants to make use of any suitable effluent produced. However, other applications for treated wastewater are gaining traction, and the new National Framework for Safe Reuse released in November 2022 is expected to drive wider uptake. In particular, there has been recent interest in potable reuse with pilots underway for indirect potable reuse in Chennai, and direct potable reuse in Mumbai.

Meanwhile, Taiwan has accelerated its municipal-to-industrial reuse programme, with the latest project, the 105,000 m³/d Futian plant, awarded in July 2023. In particular, the thriving semiconductor industry is presenting a significant source of demand – in October 2023 a tender was issued for a 70,000 m³/d plant in Nanzih that will supply a semiconductor fab among other industrial customers. Moreover, to encourage wider uptake of reuse among industrial users, which has previously been held back by the higher cost of treated wastewater compared to conventional sources, the government has approved an additional water tariff for large water consumers, to be implemented in November 2023. Malaysia's national wastewater group, IWK, is also leaning on municipal-to-industrial reuse, having signed a Memorandum of Understanding in 2023 to explore the possibility of implementing reuse in the Penang region. It is also in talks with the government to create policies that will encourage industrial reuse.

Another key market in the region is Singapore, where reuse is the most important of the 'Four National Taps'. Potable-grade treated wastewater, branded NEWater, is used for industry and, in times of shortage, indirect potable reuse (IPR), with 585 million m³/year currently treated by four large-scale water reclamation plants. A fifth, the 800,000 m³/d Tuas Water Reclamation Plant, is currently under procurement. Meanwhile, the Philippines has become the first country in the region to implement direct potable reuse (DPR): Manila concessionaire Maynilad's Parañaque NEW WATER plant received its permanent operating permit in June 2023 after a year-long monitoring process to ensure compliance with drinking water standards. Maynilad plans to further increase its DPR capacity, first by tripling the capacity of the Parañaque plant to 30,000 m³/d, with the tendering process for the expansion due to begin early in 2024.

MENA

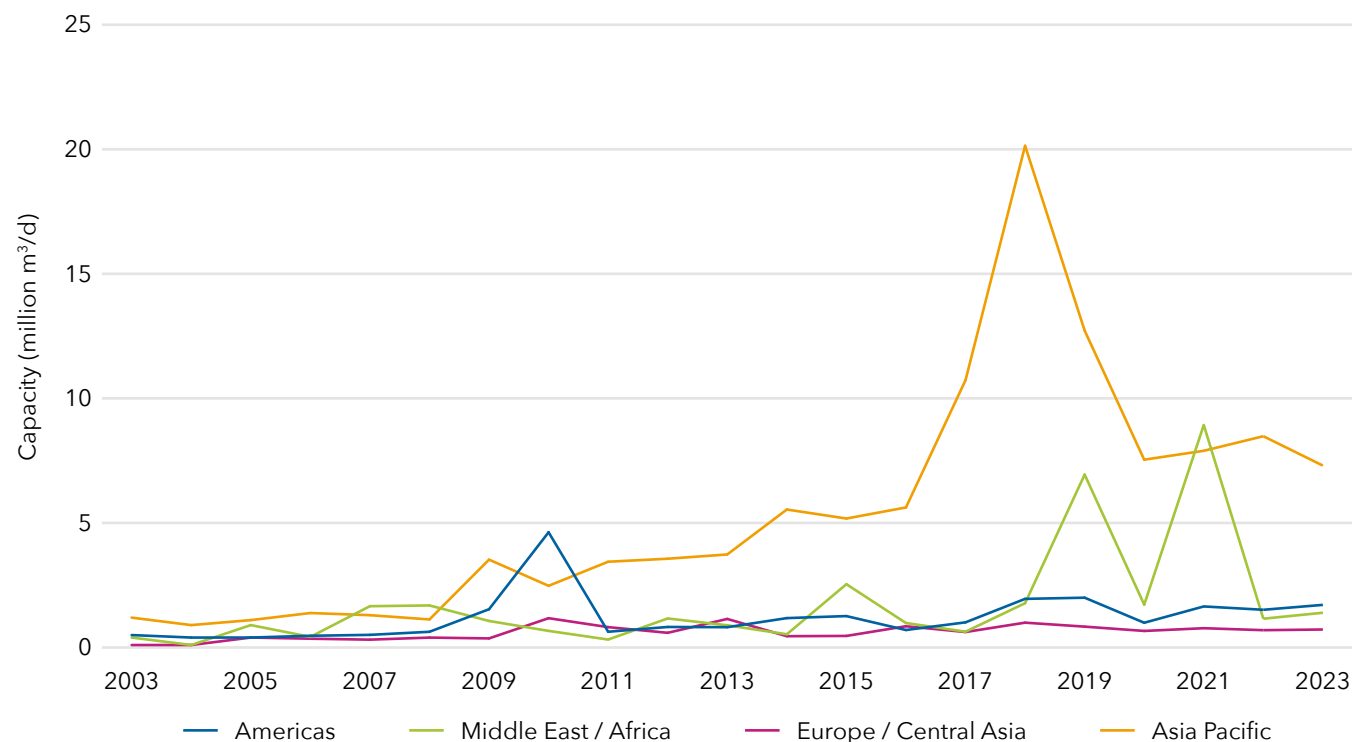
Agricultural irrigation far outstrips other applications for treated wastewater throughout the MENA region. In Israel, one of the world’s most developed markets for reuse, all wastewater is required to be treated to tertiary level standards suitable for unrestricted irrigation under quality regulations introduced in 2010. However, with upgrades now substantially complete, and with around 90% of treated wastewater already being reused, the past few years have seen limited new capacity and there are no large projects on the horizon.

Egypt, on the other hand, has quadrupled its contracted reuse capacity in the last five years, and now leads the region in terms of installed and contracted capacity. The steep increase is largely due to three colossal treatment plants treating agricultural runoff for reuse in agriculture, of which the most recent, the 7.5 million m³/d Al Hammam plant awarded in 2021, will be the world’s largest reuse plant when commissioned. The immediate focus of current investment in Egypt, however, is increasing wastewater treatment coverage, with a strong pipeline of large-scale wastewater treatment plants that do not yet have a defined reuse element.

Elsewhere in the region, several Gulf states are investing heavily in reuse. Saudi Arabia has the largest installed base in the GCC, and sustained investment is expected in the coming decade as the Kingdom aims to meet ambitious targets: the Saudi Irrigation Organization (SIO), which was handed responsibility for developing reuse in the Kingdom in 2022, aims to reach 70% reuse by 2030, double the Vision 2030 target of 35%. The pipeline of large-scale Independent Sewage Treatment Plants (ISTPs), of which four more are expected to be tendered in 2024, will support the increased reuse of treated wastewater. 2022-23 also saw the award of the first three of five long-term sewage treatment plant O&M packages, which include bringing the treated wastewater up to a standard suitable for reuse.

Kuwait also has a significant installed base of reuse capacity serving agriculture and industry, including the 500,000 m³/d Al-Hayman project awarded in 2020, which is the world’s largest privately financed wastewater treatment plant. However, a 1 million m³/d project at North Kabd announced in 2022 could be set to surpass it. The project is still in its infancy, but is likely to be procured as a BOT, with the treated wastewater to be reused for agriculture and industry. Meanwhile, bids were submitted in 2020 for the 400,000 m³/d Al Mutla’a wastewater treatment plant, which is being procured as a DBO, but is yet to be awarded. In the UAE, October 2023 saw bids submitted for Abu Dhabi’s 700,000 m³/d Al Wathba water polishing plant, which will produce treated wastewater suitable for unrestricted irrigation. Heavy investment in wastewater infrastructure is also planned in Dubai over the next decade, and an ambitious target was announced in 2023 to reuse 100% of treated wastewater by 2030.

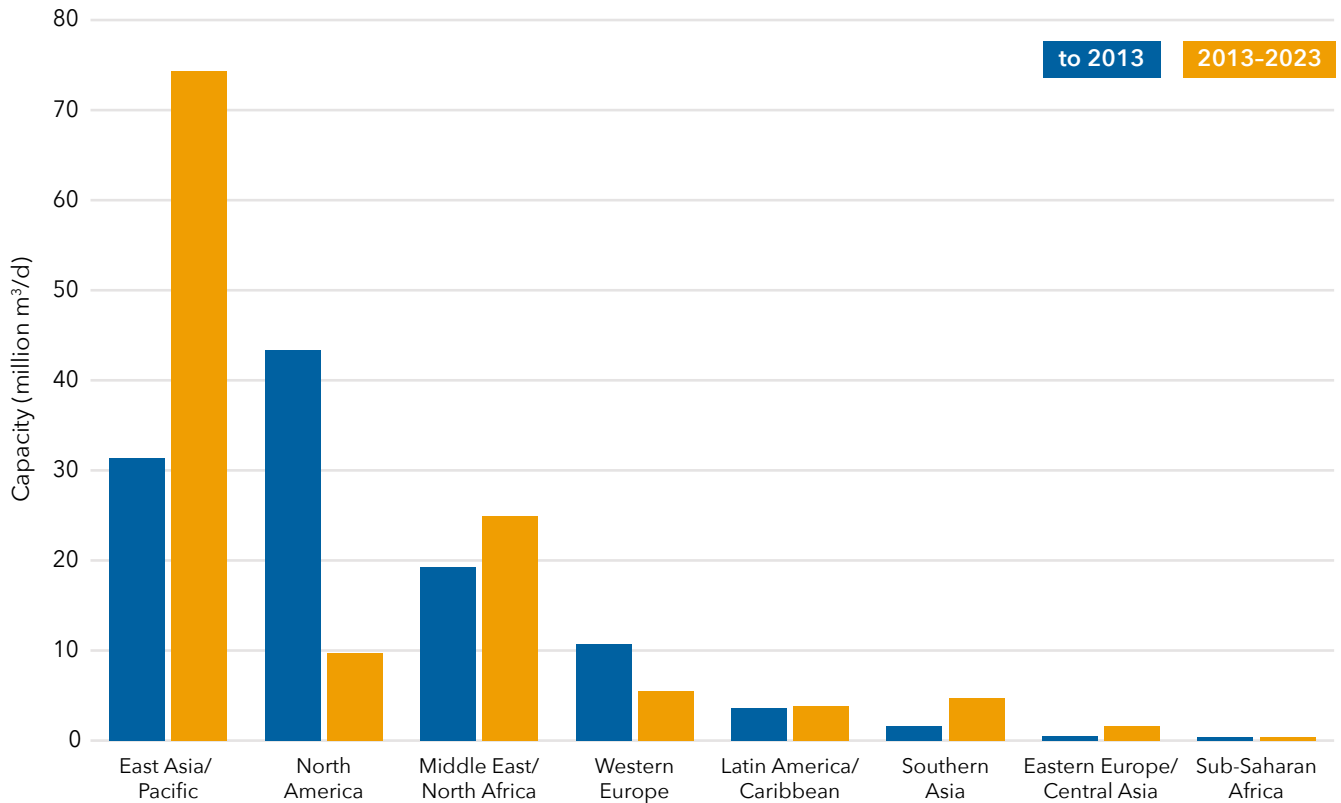
Additional contracted reuse capacity by region, 2003-2023



Capacity figures for mainland China are based on data published by MOHURD

Source: GWI DesalData / IDRA

Installed reuse capacity by region to 2023



Capacity figures for mainland China are based on data published by MOHURD

Source: GWI DesalData / IDRA

North America

While agricultural and landscape irrigation and industrial reuse still represent a large portion of installed capacity in the US, potable reuse and aquifer recharge are the key growth areas in terms of new capacity. In California alone, home to the world's largest indirect potable reuse (IPR) project (the 492,000 m³/d Orange County Groundwater Replenishment System), at least a dozen potable reuse projects are at various stages of planning and procurement. The 18,925 m³/d San Bernardino Clean Water Factory IPR was awarded in 2023, as was the demo facility for the planned 314,155 m³/d Pure Water San Diego program. Meanwhile, in Virginia, procurement is underway for a large-scale aquifer recharge project known as SWIFT, which will treat 454,200 m³/d of wastewater from seven wastewater treatment plants for reinjection into the Potomac aquifer.

There is also growing interest in direct potable reuse (DPR) in a number of states, including Texas, Arizona, Florida, Colorado, California and Maryland. The planned Pure Water Southern California project would be the world's largest DPR facility to date, at 94,625 m³/d (in addition to 340,650 m³/d IPR), rising to 227,100 m³/d in Phase 2. The project's environmental impact report is due to be carried out in 2024. Meanwhile, construction is due to begin in late 2023 on Texas' 40,000 m³/d El Paso DPR project. As DPR gathers pace across the US, regulations are beginning to catch up. In October 2022, Colorado became the first state to publish a state-wide DPR rule, but it will not be the last, with regulations also being developed in several other states. It is expected that these regulations will drive further uptake of DPR.

Several sources of funding and investment are available to reuse projects in the US. In addition to Water Infrastructure Finance and Innovation Act (WIFIA) loans, in July 2023 the Department of the Interior announced a large-scale water recycling programme with \$180 million of initial funding under the Bipartisan Infrastructure Law. The majority of projects benefiting from funding will be in California and southern states.

Europe and Central Asia

Spain remains the dominant market for reuse in Europe with over 7 million m³/d of capacity installed, and steady increases year on year, mostly serving agricultural users. In May 2023, the government announced €224 million of funding for reuse projects as part of its long-term strategy to combat water scarcity, while Catalunya is also planning €120 million of investment to double its reuse capacity.

Reuse has traditionally been less prevalent in the rest of Western Europe, but in March 2023 the French government released a new national plan to combat drought, which included ambitious targets for reuse: 1000 new reuse projects are planned, which would lift the rate of reuse of treated wastewater from 1% to 10% by 2027. The EU's new agricultural reuse regulation, which came into force in June 2023, is also expected to drive further uptake of reuse. Several northern countries where water supply is secure opted out, but in countries like Greece and Italy where current regulations are overly complex, the new regulation should significantly facilitate reuse.

Elsewhere in Europe and Central Asia, reuse is much less common, with a lack of adequate wastewater treatment acting as a restraint. However, Turkey does represent a significant market. It achieved its goal of reusing 5% of treated wastewater in the first half of 2023, and aims to increase this to 15% by 2030.

Sub-Saharan Africa

Namibia has pioneered direct potable reuse (DPR) since the 1960s and is continuing to build new capacity, with the latest project, the 20,000 m³/d Gammams DPR (often referred to as DPR2), planned to treat wastewater from two existing wastewater treatment plants. Design and procurement details are expected to be finalised by the end of 2023.

However, neighbouring South Africa has the stronger potable reuse pipeline – a planned 20,000 m³/d DPR unit at an existing plant in Durban is on hold following flood damage, but the Faure New Water Scheme, which will comprise up to 200,000 m³/d of direct and indirect potable reuse capacity, is progressing, with detailed design completed in 2023 and commissioning planned for 2028. Industrial reuse is also on the rise in South Africa, and reuse schemes are likely to receive significant investment after the Development Bank of Southern Africa's National Reuse Programme was boosted by \$235 million of funding from the Green Climate fund, announced in July 2023.

Meanwhile, in Botswana, assessment of bids for the 50,000 m³/d Glen Valley water reclamation plant is still ongoing, amidst allegations of corruption against the client. Reuse is limited elsewhere in Sub-Saharan Africa, with a lack of wastewater collection and treatment being a restricting factor.

Latin America

In Chile, where municipal reuse has in the past been hindered by disputes between treatment plant owners and downstream agricultural users over the ownership of treated wastewater, the 77,760 m³/d Antofagasta reuse project (initial capacity 25,920 m³/d) has been re-tendered, with bid submission scheduled by the end of 2023. The project is being procured under a build-operate-transfer (BOT) contract, and the client is working to secure off-take agreements, likely with the mining industry, to mitigate demand risk. The project could pave the way for other plants in coastal cities where wastewater is currently discharged to the sea after primary treatment.

Elsewhere in the region, demand for reuse also comes mainly from the industrial sector. In Mexico, four projects with a combined capacity of 40,000 m³/d near the Hondo River are expected to be tendered in 2024, after an environmental impact assessment was successfully completed in 2023. The projects will be procured as 20-year BOTs with industrial customers as off-takers. Meanwhile, in Peru, expanding wastewater treatment coverage is the primary focus of Proinversion's public-private partnership (PPP) pipeline, but some projects may also include an element of reuse for agricultural irrigation. In Brazil, where reuse is hindered by the country's low rate of wastewater treatment, a 17,280 m³/d project planned by the utility Cesan has secured an off-take agreement with steel-maker Arcelor Mittal, and procurement is expected to begin in 2024.

Capacity by technology and treatment level

GWI's reuse technology breakdown includes three categories: 'Triple barrier', 'Tertiary', and 'Other'. Triple barrier reuse encompasses the use of membrane-based treatment technologies to produce high-quality water, typically for potable or process applications. A triple barrier treatment train generally includes a combination of microfiltration/ultrafiltration (MF/UF) with reverse osmosis (RO) but also includes wastewater solely treated with MF/UF. Tertiary treatment includes sand or media filtration, membrane bioreactors (MBRs), or secondary treatment with disinfection. Lastly, 'Other' includes installations where the treatment level is secondary or lower.

Tertiary treatment remains the largest technology segment for wastewater reuse, accounting for 105 million m³/d of capacity, a 13% increase on 2021, and 43% of the currently installed global total. This high figure continues to be driven by a combination of new-build projects and upgrades to existing facilities. In both cases, activity is motivated primarily by demand for high-quality treated wastewater in agricultural and industrial applications.

Triple barrier treatment is less common than tertiary due to the higher costs associated with the more stringent treatment level, accounting for 18% of the global total. However, it is seeing rapid growth in new capacity as rising municipal needs and worsening water scarcity continue to drive demand for highly treated wastewater. These are similar drivers to those behind the growth of the desalination market and have led to 4.4 million m³/d of triple barrier reuse capacity being awarded in 2022. This marks an increase of 12% over all previously installed triple barrier capacity, a similar increase to that seen in recent years (2021: 10%, 2020: 8.1%, 2018: 13.4%, 2017: 8%). Capacity is concentrated mostly in China, the US, India, and Australia. Growing interest in potable reuse and new regulations around the removal of per- and polyfluoroalkyl substances (PFAS) are likely to drive further demand for triple barrier treatment.

Global distribution of installed tertiary and triple barrier reuse capacity, 2013-2023

Triple barrier

Global distribution of installed triple barrier reuse, 2013-2023 (m³/d million)



Tertiary

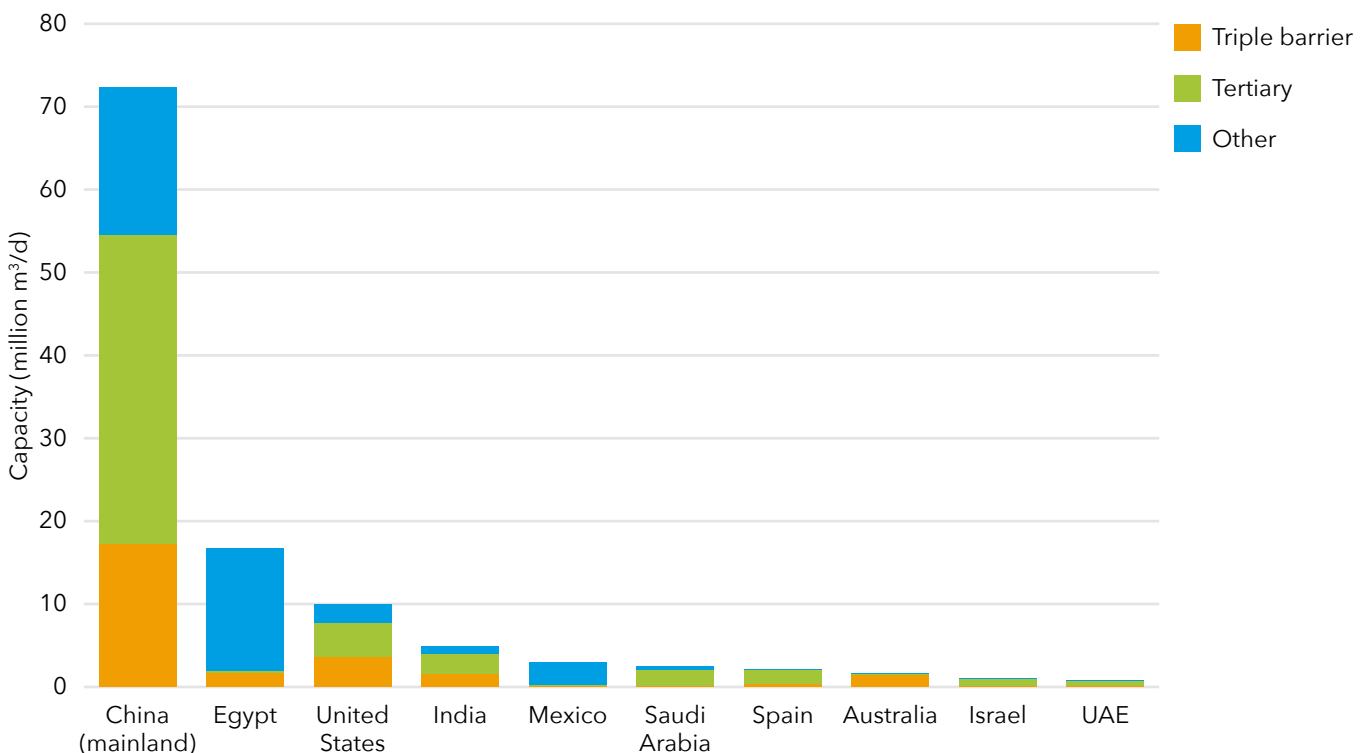
Global distribution of installed tertiary reuse, 2013-2023 (m³/d million)



Capacity figures for mainland China are based on data published by MOHURD

Source: GWI DesalData / IDRA

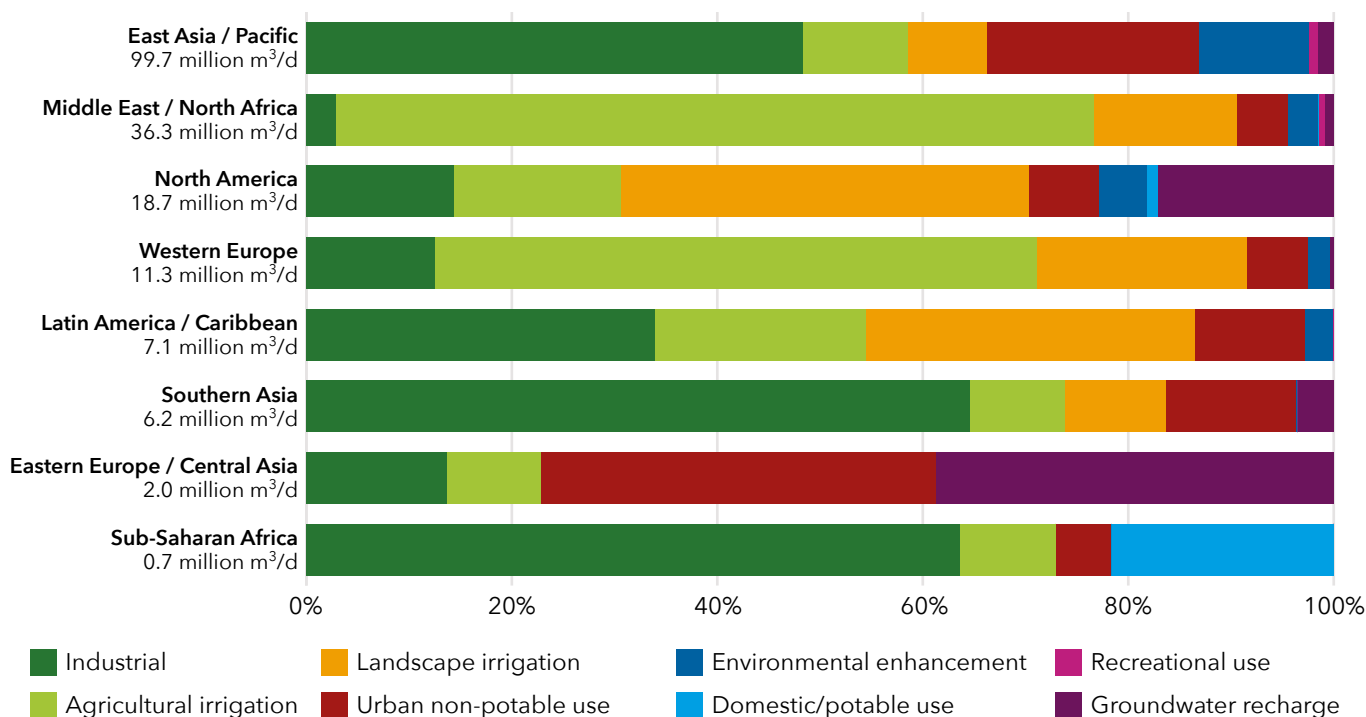
Installed capacity by country and technology level, 2013-2023



Capacity figures for mainland China are based on data published by MOHURD

Source: GWI DesalData / IDRA

Installed capacity by water reuse application, 1991-2023



Capacity figures for mainland China are based on data published by MOHURD

Source: GWI DesalData / IDRA

Capacity by application

Industry

The industrial sector continues to present a key source of demand for reuse worldwide, representing a third of total installed capacity and 37% of additional capacity in 2022. It is particularly prevalent in the Asia Pacific region, with China alone accounting for 67% of industrial capacity. Ever more stringent regulations requiring industrial consumers to limit freshwater withdrawals and wastewater discharge remain a key driver of industrial demand in China and across the region. Certain countries in Africa such as Morocco and South Africa are also leaning towards industrial reuse, while Latin America's nascent reuse sector is also likely to be driven by industrial demand.

Agriculture

As the largest water-consumer worldwide, agriculture is a key candidate for reuse in water-scarce areas. Agricultural applications dominate wastewater reuse across the MENA region, where they account for three quarters of all capacity. Agriculture is also the leading source of demand for reuse in Europe, a trend that is likely to be bolstered by the introduction of a new EU-wide agricultural reuse regulation in 2023, and represents a significant portion of capacity in almost all regions. The largest reuse projects in the world, Egypt's Al Hammam and Bahr Al-Baqar projects, fall into the agricultural category. The high cost of desalination is often prohibitive for low-value agriculture, making reuse an attractive alternative, and there is increasing demand from agriculture for tertiary-treated wastewater.

Potable reuse

Both indirect and direct potable reuse are attracting growing interest and investment, particularly in North America and Sub-Saharan Africa. The USA is home to the world's largest indirect potable reuse (IPR) projects, and is set to also boast the world's largest direct potable reuse (DPR) scheme (Pure Water Southern California). A large number of both IPR and DPR schemes are in the pipeline, particularly in water-scarce states. Potable reuse, particularly DPR, is also gaining traction in Sub-Saharan Africa, with South Africa following the example of neighbouring Namibia in exploring direct potable reuse. Potable reuse is less prevalent in Asia-Pacific, but Singapore has pioneered IPR in the region, and in 2023 the Philippines became the first country in the region to implement DPR.

While existing and emergent potable reuse regulations should act as a driver of further uptake in the US and elsewhere, regulation also acts as a key barrier to potable reuse, with many countries, especially in the MENA region, prohibiting it altogether. DPR, in particular, is also hindered by negative public perception.

Urban non-potable reuse

Urban non-potable reuse – which encompasses reuse of treated wastewater in municipal networks for non-potable applications such as air conditioning systems, toilet flushing, and street cleaning – accounts for 16% of all reuse capacity over the past decade, mostly concentrated in the Asia-Pacific region. It includes both reuse of municipal wastewater and greywater reuse, and has the advantages of presenting a source of demand close to sources of supply and requiring less stringent treatment standards than potable reuse. However, it can require an independent distribution system, such as a purple pipe system.

Groundwater recharge

The replenishment of depleted groundwater with treated wastewater represents a significant source of demand for reuse in the North American market, accounting for 19% of the regional total over the last decade. Projects are classified as groundwater recharge rather than indirect potable reuse when there is no immediate plan to withdraw the augmented groundwater for potable purposes.

Landscape irrigation

Landscape irrigation includes all non-agricultural irrigation, including watering of golf courses, parks and gardens. It has the advantage of presenting a source of demand close to municipal wastewater treatment plants, and requiring generally lower treatment standards than irrigation of food crops, industrial or potable applications. It accounts for a significant proportion of installed capacity in North America and in the GCC.

Key reuse projects involving private finance

Private finance is less established in wastewater reuse than in desalination. A variety of factors combine to make it difficult for wastewater treatment to produce bankable projects, from variability in raw water quality, to the difficulty of securing long-term purchase agreements with commercial or industrial offtakers, to the expense of constructing conveyance infrastructure to deliver treated sewage effluent (TSE) to end users. As a result, no two contract structures are the same, with many occupying a middle ground, where the burden of raising finance is transferred to a contractor, but the risks of long-term ownership of wastewater infrastructure remain with the client. In some cases developers are willing to fund treatment of conveyance infrastructure upgrades to enable the purchase of TSE from a municipality.

Country	Project name	Year	Contract type	Developer
Taiwan	Shuinan reuse project	2023	BTO	AUO Envirotech
India	Ghaziabad TTP	2022	15-year hybrid annuity contract	VA Tech Wabag
Kuwait	Umm al Hayman WWTP	2020	25-year BOT	WTE Wassertechnik/International Financial Advisors KPSC
India	Jamnagar STP rehabilitation	2020	15-year BOT	Shaurashtra Enviro Projects
Taiwan	Linhai reuse project	2018	15-year BTO	CTCI Corp./Continental Holdings
Australia	Springvale Mount Piper Power Station WTP	2017	15-year DBOT	Veolia Water Australia
China	Jiaxing Chengdong reuse project	2016	30-year BOT	Beijing Origin/North China Municipal Engineering Design & Research
Taiwan	Fengshanxi WWTP	2016	17-year BTO	CTCI Corp./Hsin Dar Corp.
Singapore	Changi NEWater Plant II	2015	25-year DBOO	BEWG-UES NEWater JV
U.S.A,	Polk Power Station, Florida	2015	30-year water supply agreement	Tampa Electric Company
United Arab Emirates	Wathba 2 and Al Hamah WWTPS	2008	25-year BOT	Veolia/Besix

Source: GWI

Featured Desalination & Reuse Projects



Images supplied by: Osmoflo

Osmoflo, in conjunction with its shareholder Hitachi Zosen, has donated three containerised water treatment plants to Turkey to provide relief to thousands of displaced people without access to safe drinking water as a result of the earthquake that hit Syria and Turkey in February 2023.

Through discussions and collaborations with Hitachi Zosen, former employee Mert Incanc Emir and local water authorities Malatya Water and Ankara Water, Osmoflo was able to finalise the logistics of the transportation of the assets, designed to deal with two different types of feedwater, that will provide over 600 m³/d of potable water to the affected area. The shipment also includes a 700 m³/d membrane pretreatment unit. The units require minimal site operator involvement with plant production controlled via storage tank level switch.

Challenges throughout this venture included the logistics of delivering and commissioning the containers during a period of emergency. Now that the containers have arrived and are in place, commissioning will be completed imminently to aid those in need.

The project is not the first emergency desalination project to be supplied by Osmoflo and follows the deployment of a 7,000 m³/d containerised emergency seawater reverse osmosis (SWRO) system in Thailand in 2020.

Plant name	Turkey Earthquake Relief RO Plant
Plant location	Malatya, Turkey
Production capacity	Seawater (SW): 10 m ³ /d Brackish water (BW): 600 m ³ /d
Startup date	Still awaiting commissioning
Feedwater TDS	SW: <40,000 mg/L BW: <5,000 mg/L
Operating SDI	SW: <5 / BW: <3
Operating pH	4-10
Operating temperature	SW: 20-35°C / BW: 10-35°C
Desal system description	SW10-1 Sea Water Desalination Plant with Integrated CIP and UF PreFiltration System
Pretreatment system	MF700
Number of MF/UF trains	2 - MF700 + MF150 (Part of SW10)
Number of RO trains	2 - SW10-1 + BW600-4
RO recovery	SW: 40% / BW: 80%
RO energy consumption	Install Only - SW10-1 installed load 11kW / BW600-4 installed load 48.12kW
Project delivery method	Units delivered via containerised shipments (x3 20 foot and x1 40 foot)
Plant supplier	Osmoflo
RO membrane supplier	Osmoflo SW: GE / BW: DuPont
High pressure pump supplier	Osmoflo SW: Danfoss / BW: Grundfos
Control system supplier	Allen Bradley





A 300 m³/d Carrier Gas Extraction (CGE) minimum liquid discharge (MLD) facility serving a global pharmaceutical and biotech company’s antibiotics manufacturing plant in Singapore.

The manufacturing plant produces wastewaters containing organic solvents and unrecovered amoxicillin products, which were restricting overall manufacturing yields and waste disposal. This presented a challenge for the project team to identify a compact process solution that could sustainably treat high COD, TDS, and chlorides feedwater, within the extremely limited available footprint.

The solution selected was a bespoke version of Gradiant’s CGE technology followed by an Agitated Thin Film Dryer (ATFD). The CGE process is responsible for initially concentrating the feed, which is then fed to the ATFD to form a solids cake with >80% purity. The CGE system is housed in two 32-meter towers in order to accommodate the existing facility’s very limited footprint.

The CGE technology has been proven to help other clients achieve 20x brine concentration and the project delivery team deployed bench-scale lab testing to demonstrate the technology to the client.

The use of CGE/ATFD technology led to overall disposal volumes being reduced by over 98% while retaining cost efficiency.

Plant name	Pharmaceutical Wastewater MLD Plant, Singapore
Plant location	Singapore
Production capacity	300 m ³ /d
Startup date	June 2022
Feedwater source	Wastewater from Medicine Production
Feedwater TDS	13,000 mg/L
Intake type, location	Process Effluent Tank
System description	Carrier Gas Extraction (CGE), Agitated Thin Film Dryer (ATFD): 2 x 50% CGE and 100% ATFD
Pretreatment system	pH adjustment + Auto-backwash Filter
System recovery	98%
Product water TDS	< 500 mg/L
Overall energy consumption	12.5 kWh/m ³
Project delivery method	Design-Build
Plant supplier	Gradiant
End user	Anonymous global pharmaceuticals company
System footprint	450 m ²





**Parañaque
NEW WATER
Treatment Plant**

Images supplied by: Maynilad

A 10,000 m³/d direct potable reuse (DPR) facility located in Parañaque City. It is the first operational DPR facility not only in the Philippines but in the whole of Asia.

The Parañaque NEW WATER Treatment Plant (PNWTP) is Maynilad’s first implementation of its “potable water reuse” project, which converts the treated effluent from its Sewage Treatment Plants into potable water supply called “NEW WATER” that meets the Philippine National Standards for Drinking Water—one of the more stringent drinking water standards in the world.

The product water from the PNWTP is fed into the distribution system where it is blended with the standard drinking water produced by Maynilad’s La Mesa Treatment Plants. This blended supply is then conveyed to Barangays San Dionisio and San Isidro in Parañaque City, benefitting some 38,700 customers.

This facility is a testament to Maynilad’s efforts to close the loop between water supply and wastewater disposal, promoting a shift to a circular economy that ensures better use of finite resources.

The plant was constructed by Power4All with Inge supplying the ultrafiltration (UF), and Toray supplying the reverse osmosis (RO) systems which operates at an overall 75%-80% recovery rate. The UF filtrate goes to a UF filtrate tank and is supplied by feed pumps to the RO train.

The project followed a very tight schedule; construction started in early 2022 and piped-in distribution commenced towards the end of the same year. Nevertheless, timelines were still met through close coordination among the different Maynilad divisions, as well as with stakeholders from the local government, national agencies, and with its regulators.

Plant name	Parañaque NEW WATER Treatment Plant
Plant location	Parañaque City, Philippines
Production capacity	10,000 m ³ /d
Startup date	October 26, 2022
Feedwater source	Tertiary municipal effluent
Feedwater TDS	300-600 mg/L
Feedwater temperature	25-30°C
Intake type, location	Effluent tank
Desal system description	Two stages RO system with high pressure pump, chemical cleaning, and CIP system
Pretreatment system	Pre-chlorination Pressure media filter
Number of MF/UF trains	3 UF
Number of RO trains	14 (10 1st stage and 4 2nd stage)
RO recovery	75-80%
Primary reuse sector	Direct potable reuse
Outfall location	Malabon Creek
Product water TDS	100-200 mg/L
Overall energy consumption	6000-7000 kWh/day
Project delivery method	Design-Build
Plant supplier	Power4All - ODIS
RO membrane supplier	Toray
High pressure pump supplier	Grundfos
Control system supplier	Allen Bradley (PLC)/ Odis (SCADA)
End user	Parañaque City
Water price	0.17 USD/m ³
System footprint	1,445 m ²



Digital desalination

How digital technologies can evolve the desalination sector

Explore digitalisation in the desalination sector and how it can help solve the sector's challenges

Access the white paper for:

- The current state of digitalisation in the desalination sector
- The benefits of digitalisation and process optimisation
- The market and growth opportunities for digitalising desalination

The benefits of digitalisation

Key message: Digital technologies allow for more efficient use of existing desalination technologies and bring down the cost of desalting water

Reductions to operational expenditure

Digital optimisation, like machine learning, is able to reduce opex through further reductions to energy and chemical consumption without the purchase and installation of new hardware.

Energy consumption can account for up to two-thirds of operational expenditure in large-scale SWRO plants.

In the Gulf, the capital cost of replacing old plants is being balanced out by the savings in operational expenditure.

Reductions to capital expenditure

Digital modelling software can aid the design of new, efficient desalination systems to reduce the capital cost of plants.

For example, RO system configurations with higher recovery rates can reduce the required size of pretreatment systems, providing:

- Capex savings
- Lower operator workload
- Opex reductions

Meeting future global water demand

As population growth and water scarcity continue to become ever more pressing issues, the reductions provided by digitalisation to the cost of desalinating water will help with meeting future freshwater demand.

Digitalisation is the best way to increase the efficiency of our plants. It will allow us to reduce required inputs like energy and chemicals to produce the same amount of water. At the same time, we are going to reduce the environmental footprint of our plants.

Julio de la Rosa, Middle East Development Director

In order to meet future freshwater demand, a reduction in the average cost of desalinated water is needed. Emerging technologies such as 'plug and play' and autonomous remote operation will enable this.

Alfonso Automate, Electric

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Groundwork for digital technologies

Key message: Applying digital technologies like machine learning requires groundwork on the data side

Before applying digital technologies to desalination, there is groundwork that needs to be in place to enable maximum effect. In order to effectively digitalise a desalination plant, one must first have a strong basis of reliable data, provided by a strong network of calibrated sensors and processed by a capable control system. If the original data is not reliable, the software trained on it will not be either.

"We're talking a lot about AI but what we've found is the main problem is the instruments. We've found that some use the wrong method, are in the wrong location, or measure in the wrong range. We call this uncertainty of inputs: you get out what you put in."

Thomas Altmann, EVP Innovation & New Technology, ACWA Power

Machine learning

Data collection → Data cleaning → Capable control system → Sensors and instrumentation

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How can digital desalination affect process design?

Key message: Digital modelling software offers value for those designing new desalination systems

Digital modelling allows for greater experimentation in process design and for easy simulation of new configurations. By using digital modelling tools, approaches like multi-stage RO systems can be digitally tested in different set-ups to determine the most effective solution, helping desaliners achieve higher recovery rates and lower energy consumption from existing desalination technology.

VR technologies can help engineering teams design their plants. The approach allows engineers to digitally walk around a plant while designing it, allowing them to more easily conceptualise and optimise plant design.

CHALLENGES

Designing new configurations: New high-recovery RO configurations are a focal area for reducing the costs of desalting water. However, current tools for modelling membranes and hydraulics are often separate, making it harder to simulate a new system configuration in its entirety.

Greasing the gears of plant construction: Operational efficiency is commonly the main focus for improving desalination. However, reducing plant capex and ensuring it runs as planned from day one is also important.

SOLUTIONS

Integrated modelling tools: An integrated suite of modelling software that covers the entire RO system, from membranes to hydraulics, allows complete digital testing of new RO systems to find and optimise the best configuration.

Visualising plant problems: VR tools can help engineers visualise and optimise the plant they are working on, before ground is even broken. This helps reduce on-site presence, prototyping costs, and design faults in the final design to ensure the plant runs as planned.

"We strive for design simplicity. If you start with complexity, reality will double it. You need a simple, thought out, and proven initial design. Computerisation is essential for that because we can model designs before implementing them, optimise efficiency, and have good synergy with hydraulic equipment."

Eli Oktejas, President, FEDCO

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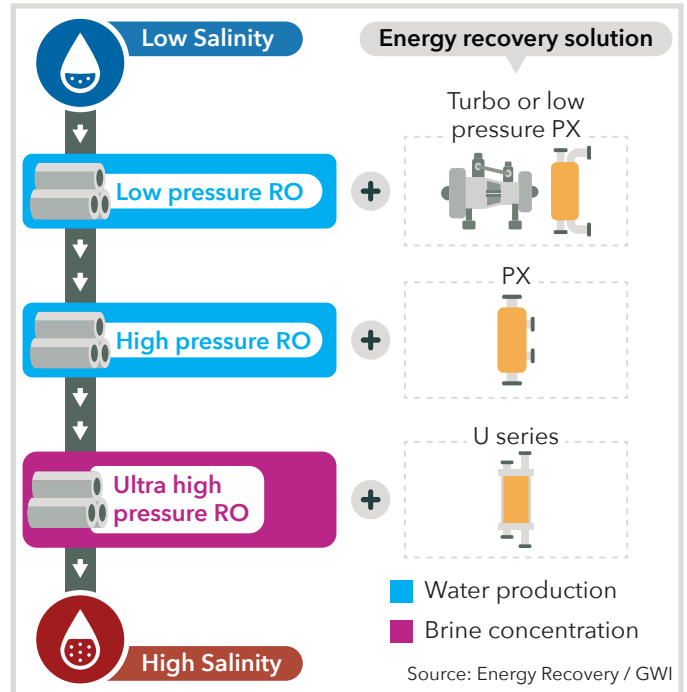
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Featured Technologies

PX Q400 Energy Recovery Device (Energy Recovery Inc.)

The PX Q400 is the next evolution of Energy Recovery Inc's Pressure Exchanger (PX) energy recovery device (ERD) for seawater reverse osmosis (SWRO) desalination and wastewater facilities. Each PX Q400 has an individual capacity of 400 gallons per minute (gpm) with less than 3% volumetric mixing, making it the highest capacity and highest performing PX yet. Made with corrosion-proof ceramic and designed with only one moving part, the PX Q400 supports a 25-year design life with no scheduled maintenance, minimising life-cycle costs and maximising uptime.

Energy recovery devices such as the PX Q400 are designed to help small and large-size desalination and water treatment plants around the world to optimise their operations and significantly reduce energy usage. Energy Recovery's full suite of PX solutions enables these advantages to be leveraged across a range of RO processes, from low and high pressure water production to ultra-high pressure brine concentration applications.



www.energyrecovery.com
Contact details and references on p.201

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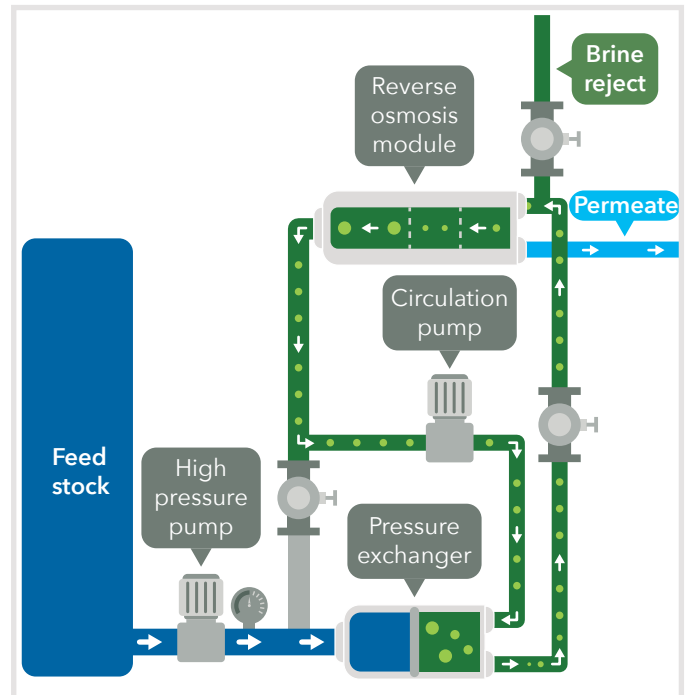
Batch RO (Salinity Solutions)



Salinity Solutions' batch reverse osmosis (RO) technology innovates on the RO process by treating water in cycles. The process features two modes. First is a pressurisation step, during which feedwater is desalinated by the RO membranes and concentrate recirculated for retreatment until desired conditions are met. Second is a purge-and-refill step, in which the system is flushed of brine from the previous batch and refilled for the next pressurisation cycle. Salinity Solutions' patented pressure exchange process dramatically reduces the average pressure in the system and therefore the energy consumption.

Operating in this way allows the process to reach higher than normal recovery rates (up to 98%) while maintaining high efficiency. In practice, this means the process uses 50% less energy and creates 80% less waste than conventional RO. The system is also more compact than traditional systems.

Salinity Solutions aims to partner with water treatment companies to achieve rapid adoption in a range of applications, from municipal wastewater treatment to high-value mineral extraction, agriculture and manufacturing.



Source: Salinity Solutions / GWI

www.salinitysolutions.co.uk

Contact details: sales@salinitysolutions.co.uk / 01216 636 536

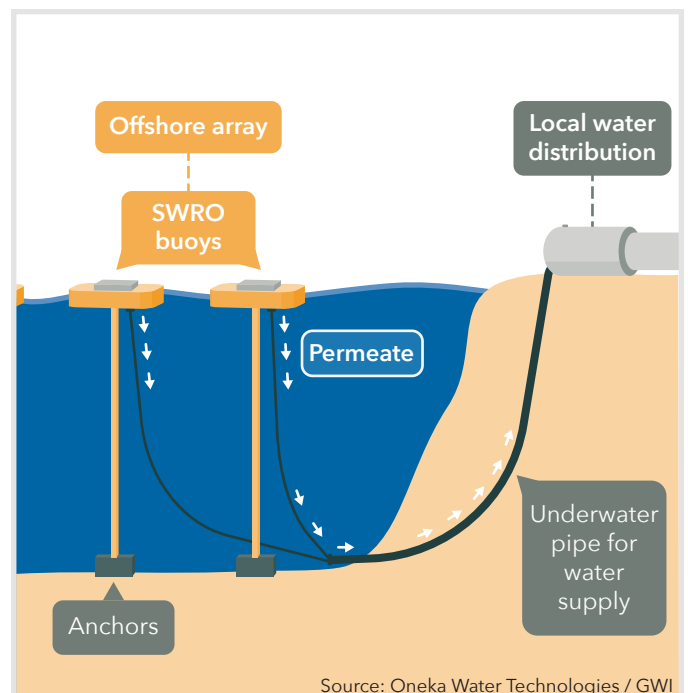
Wave-powered RO (Oneka Water Technologies)



Oneka Technologies' wave-powered reverse osmosis (RO) system innovates on the RO process by utilising the energy of the ocean's waves to drive desalination. Across an array of anchored buoys, the oscillating motion of waves is harnessed to perform the functions traditionally requiring energy-intensive pumps. As the system sinks into a wave trough, seawater is drawn into the intake and pretreatment filters. As the system rises, the wave energy pressurises the feed which is then passed along to a pressure and flow optimisation system and finally the RO membranes. Brine is passed back through the pressure and flow optimisation system before being discharged while permeate is sent to shore through a submerged pipeline.

Due to the intake and pressurisation steps requiring no electricity, the system can efficiently operate at low recovery (~25%), producing a brine just 30% higher in salinity than ambient seawater. Combined with the distributed nature of the buoys which ensures effective diffusion, no change in salinity can be detected within 2-3 metres of each system.

The wave-powered RO system is modular and scalable, has no electricity requirements, and operates with no chemicals, while having a negligible impact on marine life.



Source: Oneka Water Technologies / GWI

www.onekawater.com

Contact details and references on p.107

New Desalination Plants Contracted 2022-2023

A listing of new desalination plants contracted between 2022 and 2023, drawn from the IDRA/GWI Worldwide Desalting Inventory and GWI DesalData.

Technologies: ED = Electrodialysis; EDR = Electrodialysis reversal; IX = Ion exchange; RO = Reverse osmosis; MED = Multi-effect distillation; MSF = Multi-stage flash; NF = Nanofiltration; NF/SR = Nanofiltration/Sulphate Removal; VC = Vapour compression

Country	Plant name/location	Feedwater	Technology	Capacity (m ³ /d)	Plant supplier(s)	Award date
Algeria	Béjaïa SWRO	Seawater	RO	300,000	Wetico	2022
Algeria	Cap Blanc SWRO	Seawater	RO	300,000	Hangzhou Water Treatment Technology Development Center Co., Ltd	2022
Algeria	Cap Djinet SWRO	Seawater	RO	300,000	Wetico	2023
Algeria	Corso SWRO	Seawater	RO	80,000	Metito	2022
Algeria	El Tarf SWRO	Seawater	RO	300,000	Wetico	2022
Algeria	Fouka SWRO	Seawater	RO	300,000	Metito	2023
Argentina	Brine Oxidation for Eramine Sudamericana S.A.	Brine or concentrated seawater	ED	41,760	Fluence Corporation	2022
Argentina	Reverse Osmosis for Frio Industrias Argentinas S.A.	River water or low concentrated saline water	RO	360	Fluence Corporation	2022
Argentina	Reverse Osmosis for MARIO NEJAMKIN	Unknown	RO	90	Fluence Corporation	2022
Argentina	Reverse Osmosis for MS Patagonia / Cerro Vanguardia	Unknown	RO	240	Fluence Corporation	2022
Australia	Iberdrola Bolivar PS Demin WTP	Brackish water or inland water	RO	540	Osmoflo Pty Ltd	2022
Australia	IGO Nova Mine WTP	Seawater	RO	900	Osmoflo Pty Ltd	2022
Australia	Kwinana PS Rehab Project	Brackish water or inland water	RO	1,290	Osmoflo Pty Ltd	2022
Australia	Nyrstar Pt Pirie STP Upgrade	Wastewater	RO	70	Osmoflo Pty Ltd	2022
Australia	Roma Hub Brine Conc WTP	Seawater	RO	1,600	Osmoflo Pty Ltd	2022
Australia	Roy Hill UF-SWRO	Brackish water or inland water	RO	40,000	Osmoflo Pty Ltd, Aerison	2022
Australia	Snapper Point PS Demin Plant	Brackish water or inland water	RO	720	Osmoflo Pty Ltd	2022
Australia	Tomato Farm WTP	Brackish water or inland water	RO	1,600	Osmoflo Pty Ltd	2022
Austria	Drinking Water Plant	Brackish water or inland water	RO	7,680		2022
Azerbaijan	Coca Cola Azerbaijan	Brackish water or inland water	RO	960	Aquamatch Turkiye	2022
Bangladesh	Akij Food	Brackish water or inland water	RO	3,696	Aquamatch Turkiye	2023
Bangladesh	Akis Food	Brackish water or inland water	RO	1,728	Aquamatch Turkiye	2023
Brazil	Fortaleza SWRO	Seawater	RO	86,400	IDE Technologies Ltd.	2022
British Virgin Islands	British Virgin Islands SWRO Desalination Plant	Seawater	RO	120,000	TSG Water Resources	2023
Cayman Islands	Red Gate SWRO	Seawater	RO	10,000	Consolidated Water Co. Ltd.	2022
Chile	Antofagasta desalination plant	Seawater	RO	54,777	Empresa Constructora Belfi S.A.	2022
Chile	CODELCO SADDN	Seawater	RO	72,576	IDE Technologies Ltd.	2023
Chile	Doña Ines de Collahuasi Seawater Desalination Plant	Seawater	RO	90,720	Acciona Agua	2022
Chile	Planta Desaladora Norte (PDN) Expansion	Seawater	RO	50,000	Empresa Constructora Belfi S.A.	2022
China	Chemical Plant	Wastewater	RO	20,000		2022
China	Chemical Plant	Wastewater	RO	8,600		2022
China	Chemical Plant	Wastewater	RO	6,500		2022

NEW DESALINATION PLANTS CONTRACTED 2022-2023

Country	Plant name/location	Feedwater	Technology	Capacity (m ³ /d)	Plant supplier(s)	Award date
China	Desalination project of a petrochemical enterprise	Seawater	RO	58,080		2023
China	Dezhou chemical enterprise desalination project	Brine or concentrated seawater	RO	6,720	Hangzhou Water Treatment Technology Development Center Co., Ltd	2023
China	Dongying Port Seawater Desalination Project	Seawater	RO	50,000		2022
China	Huizhou Pinghai power plant project	Seawater		12,000		2022
China	Jining sodium sulphate recovery project for perfume company	Wastewater	RO	7,700	Hangzhou Water Treatment Technology Development Center Co., Ltd	2022
China	Ningbo Seawater Desalination System	Seawater	RO	12,000		2022
China	Shandong Xinhecheng Chemical Water Treatment System	Brackish water or inland water	RO	9,600	Hangzhou Water Treatment Technology Development Center Co., Ltd	2022
China	Shandong Xinhecheng Chemical Water Treatment System	Brackish water or inland water	RO	4,800	Hangzhou Water Treatment Technology Development Center Co., Ltd	2022
China	Shandong Yulong Petrochemical Seawater Desalination (MED)	Seawater	MED	80,000	Shanghai Electric	2022
China	Shandong Yulong Petrochemical Seawater Desalination (RO)	Seawater	RO	80,000	Shanghai Electric	2022
China	Food And Beverage Plant	Pure water or tap water	RO	3,000		2022
China	Food And Beverage Plant	Pure water or tap water	RO	2,000		2022
China	Tianjing drilling platform seawater desalination	Seawater	RO	6,480	Hangzhou Water Treatment Technology Development Center Co., Ltd	2023
China	Xinte Energy Huaidong Industrial Park Demineralization Project	Brackish water or inland water	RO	5,232	Hangzhou Water Treatment Technology Development Center Co., Ltd	2022
China	Xinte Energy Huaidong Industrial Park Demineralization Project	Brackish water or inland water	RO	3,840	Hangzhou Water Treatment Technology Development Center Co., Ltd	2022
China	Yulong Refining and chemical integration Phase 1 (MED)	Seawater	MED	80,000	Shanghai Electric Power Generation Group	2022
China	Yulong Refining and chemical integration Phase 1 (RO)	Seawater	RO	80,000	Shanghai Electric Power Generation Group	2022
China	Zhejiang Zheneng Zhoushan Coal Power Plant Seawater Desalination Phase 2	Seawater	RO	30,000		2022
China	Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station	Brackish water or inland water	RO	3,600		2022
China	Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station	Brackish water or inland water	RO	2,520		2022
China	Zijin Mining Wastewater ZLD and Resource Recycling Project	Wastewater	RO	20,000	Greentech Environmental Co. Ltd.	2022
Democratic Republic of the Congo	Congo Act	Brackish water or inland water	RO	300	Aquamatch Turkiye	2023
Egypt	Egyptian Fertilizer Company	Seawater	RO	25,000	Metito	2022
Egypt	El Hammam Utilities BWRO Plant	Brackish water or inland water	RO	115	Metito	2022
Egypt	NABQ SWRO	Seawater	RO	12,000	Desalia	2023
Egypt	Niroflex UF/BWRO for EGAT Steel Factory	Brackish water or inland water		9600	Fluence Corporation	2022
Egypt	Suez Oil Processing Company	Seawater	RO	30,000		2022
France	Auxerre LPRO Drinking Water Treatment Plant	River water or low concentrated saline water	RO	33,600	Suez	2023
Georgia	Argo Brewery	Brackish water or inland water	RO	1,560	Aquamatch Turkiye	2022
Germany	Process Plant	Brackish water or inland water	RO	5,400		2022

Country	Plant name/location	Feedwater	Technology	Capacity (m ³ /d)	Plant supplier(s)	Award date
Ghana	Iffco	Brackish water or inland water	RO	360	Aquamatch Turkiye	2022
Ghana	Lesfam Food	Brackish water or inland water	RO	1,440	Aquamatch Turkiye	2023
Greece	Mykonos SWRO	Seawater	RO	3,000	Mesogeos	2022
Greece	Santorini Desal Expansion	Seawater	RO	5,000	Ermon S.A.	2022
India	Aurobindo Group	Seawater	RO	31,250	Thermax	2022
India	Chennai 4 (Perur)	Seawater	RO	400,000	Metito , VA Tech Wabag Ltd.	2023
India	Gujarat Heavy Chemicals Limited	Seawater	RO	10,000	Thermax	2022
India	Hindalco Aluminum ZLD		RO	70	Aquatech International Corporation	2022
India	Indian Rayon	Seawater	RO	12,000	Thermax	2022
India	Jamnagar Refinery SWRO	Seawater	RO	53,000	VA Tech Wabag Ltd.	2022
India	Meramandali, Angul - Steel ZLD Project	Wastewater	RO	6,240	Aquatech International Corporation	2022
India	Shirwal ETP-Recycle- ZLD Revamp Project		RO	132	Aquatech International Corporation	2022
Indonesia	Hyrec Brine Mining Facility	Seawater	RO	27,120	Hyrec	2022
Indonesia	Manyar Smelter	Seawater	RO	34,500	Metito	2022
Indonesia	Seawater desalination project of a paper company	Seawater	RO	50,000		2022
Iran	Bandar Lengeh SWRO	Seawater	RO	9500	Omran Sazan Mahab Co.	2022
Iran	Mokran Ab Niroo SWRO	Seawater	RO	40,000	Mapna International	2022
Iraq	Baghdad Soft Drinks	Brackish water or inland water	RO	720	Aquamatch Turkiye	2023
Iraq	Basrah Refinery Demin WTP		RO	9,700	Osmoflo Pty Ltd	2022
Iraq	Erbil Combined Cycle Power Plant	Brackish water or inland water	RO	3,840	Aquamatch Turkiye	2022
Iraq	Muataz Kareem	Brackish water or inland water	RO	600	Aquamatch Turkiye	2023
Iraq	Zaki Juice	Brackish water or inland water	RO	2,160	Aquamatch Turkiye	2023
Israel	Prefabricated SWRO Plant	Seawater	RO	200,000		2022
Italy	Hd 8 Am	Brackish water or inland water	RO	250	Osmo Sistemi	2022
Italy	Osmo 48 Am	Brackish water or inland water	RO	1,350	Osmo Sistemi	2022
Kazakhstan	Coca Cola Shymkent	Brackish water or inland water	RO	3,600	Aquamatch Turkiye	2023
Kazakhstan	Expansion of Caspiy Desalination SWRO Plant	Seawater	RO	26,600	Metito	2022
Kiribati	McKenzie SWRO Phase 1	Seawater	RO	2,500	Osmoflo Pty Ltd, Reeves Envico	2022
Kiribati	Temakin/Betio SWRO	Seawater	RO	3,500	Osmoflo Pty Ltd, Reeves Envico	2022
Mexico	Cabo San Lucas expansion	Seawater	RO	21,600	Acciona Agua, La Peninsular Compañía Constructora	2022
Mexico	Water production, (RO+Demi) for 4 Combined Cycles	Wastewater	RO	50,000		2022
Morocco	Dakhla SWRO	Seawater	RO	101,000	Fisia Italimpianti	2022
Morocco	El Jadida Containerised SWRO Plant	Seawater	RO	30,000		2022
Morocco	Osmo 12 Am	Brackish water or inland water	RO	400	Osmo Sistemi	2022
Morocco	Safi Containerised SWRO Plant	Seawater	RO	30,000		2022
Oman	Al Kahel Seawater Desalination System	Seawater	RO	200	State Grid International Development Ltd.	2022
Oman	Barka 5 IWP	Seawater	RO	100,000	Fisia Italimpianti, GS Inima Environment, S.A.	2022
Oman	Oman Sugar Refinery	Seawater	RO	3,600	Aquamatch Turkiye	2023
Pakistan	AlKaram Textile	Brackish water or inland water	RO	2,280	Aquamatch Turkiye	2022

NEW DESALINATION PLANTS CONTRACTED 2022-2023

Country	Plant name/location	Feedwater	Technology	Capacity (m ³ /d)	Plant supplier(s)	Award date
Pakistan	Coca Cola Lahore	Brackish water or inland water	Unknown	1,632	Aquamatch Turkiye	2022
Pakistan	Gulbahar Group	Brackish water or inland water	RO	1,680	Aquamatch Turkiye	2022
Pakistan	HBWRO Package 1	Brackish water or inland water	RO	500	Osmoflo Pty Ltd	2022
Pakistan	HBWRO Package 2	Brackish water or inland water	RO	500	Osmoflo Pty Ltd	2022
Pakistan	Interloop FSD	Brackish water or inland water	RO	960	Aquamatch Turkiye	2022
Pakistan	NBC Gujranwala	Brackish water or inland water	RO	2,698	Aquamatch Turkiye	2022
Pakistan	PBL Site Karachi	Brackish water or inland water	RO	4,824	Aquamatch Turkiye	2022
Peru	Shougang Hierro Peru Seawater Desalination expansion project	Seawater	RO	22,464		2022
Saudi Arabia	Jubail 2 Replacement Plant	Seawater	RO	1,000,000	Metito	2022
Saudi Arabia	King Abdullah Economic City	Seawater	RO	15,000	Metito	2022
Saudi Arabia	Ma'aden	Seawater	RO	6,000	Suido Kiko Middle East	2022
Saudi Arabia	Neom Satco Village BWRO Plant	Brackish water or inland water	RO	250	Metito	2022
Saudi Arabia	Provide Reverse Osmosis (R.O.) Unit at SSPP with Installation	Seawater	RO	2,000	Wetico	2022
Saudi Arabia	Rabigh 4 IWP	Seawater	RO	600,000	Wetico, Power China	2023
Saudi Arabia	Riyadh Development Authority BWRO Plant	Brackish water or inland water	RO	120	Wetico	2022
Saudi Arabia	Shoaba 3 Conversion Project	Seawater	RO	600,000	Doosan Heavy Industries & Construction Co., Ltd.	2022
Saudi Arabia	Temporary Desal Plant	Seawater	RO	21,000	Osmoflo Pty Ltd	2022
Saudi Arabia	Yamamah Palace Brackish Water Reverse Osmosis	Brackish water or inland water	RO	460	Wetico	2022
Senegal	Mamelles phase 1	Seawater	RO	50,000	VA Tech Wabag , Toyota Tsusho Corporation, Eiffage	2022
Sierra Leone	Liberty Investment	Brackish water or inland water	RO	960	Aquamatch Turkiye	2023
South Africa	Gauteng Wastewater RO Brine Concentration System	Wastewater	RO	10,000	Proxa	2022
South Africa	Growthpoint V&A SWRO	Seawater	RO	5,000	Proxa	2022
South Africa	Mpumalanga mine effluent treatment plant	Wastewater	RO	15,000	Proxa	2022
Spain	Fonsalía SWRO expansion, Tenerife	Seawater	RO	5,250	Aqualia	2023
Turkey	Akkuyu Nuclear Power Plant Mobile	Brackish water or inland water	RO	480	Aquamatch Turkiye	2022
Turkey	Aksa Group Isis Otel	Seawater	RO	1,008	Aquamatch Turkiye	2022
Turkey	Ankutsan	Brackish water or inland water	RO	480	Aquamatch Turkiye	2022
Turkey	Bak Bayburt	Brackish water or inland water	RO	14,928	Aquamatch Turkiye	2023
Turkey	Besa Hilton Hotel	Seawater	RO	280	Aquamatch Turkiye	2023
Turkey	Coca Cola Isparta	Brackish water or inland water	RO	3,600	Aquamatch Turkiye	2023
Turkey	Diler Steel	Brackish water or inland water	RO	1,320	Aquamatch Turkiye	2023
Turkey	Eczacibasi - Ipek Paper Mill	Brackish water or inland water	RO	1,440	Aquamatch Turkiye	2022
Turkey	Eren Energy	Seawater	RO	4,900	Aquamatch Turkiye	2023
Turkey	Gemkom	Brackish water or inland water	RO	1,800	Aquamatch Turkiye	2022
Turkey	Gurteks Fiber	Brackish water or inland water	RO	1,224	Aquamatch Turkiye	2022
Turkey	Habaş	Seawater	RO	11,520	Aquamatch Turkiye	2022
Turkey	Id Bodrum	Seawater	RO	180	Aquamatch Turkiye	2022
Turkey	Izocam	Brackish water or inland water	RO	211	Aquamatch Turkiye	2022

Country	Plant name/location	Feedwater	Technology	Capacity (m ³ /d)	Plant supplier(s)	Award date
Turkey	Kestel Polymer	Brackish water or inland water	RO	2,904	Aquamatch Turkiye	2022
Turkey	Kipas Paper	Brackish water or inland water	RO	17,117	Aquamatch Turkiye	2022
Turkey	Kipas Paper	Brackish water or inland water	RO	2,400	Aquamatch Turkiye	2023
Turkey	Kipaş Paper Mill	Brackish water or inland water	RO	2,976	Aquamatch Turkiye	2022
Turkey	Kivanc Textile	Brackish water or inland water	RO	1,080	Aquamatch Turkiye	2022
Turkey	Koruma Klor	Brackish water or inland water	RO	312	Aquamatch Turkiye	2022
Turkey	Oyak	Brackish water or inland water	RO	360	Aquamatch Turkiye	2023
Turkey	Rb Karesi	Brackish water or inland water	RO	4,800	Aquamatch Turkiye	2023
Turkey	Rixos Bodrum	Seawater	RO	408	Aquamatch Turkiye	2023
Turkey	Sakarya Paper	Brackish water or inland water	RO	240	Aquamatch Turkiye	2023
Turkey	Tezcanlar Acid	Brackish water or inland water	RO	1,920	Aquamatch Turkiye	2023
Turkey	The One	Seawater	RO	300	Aquamatch Turkiye	2022
Turkey	The One 2	Seawater	RO	450	Aquamatch Turkiye	2023
Turkey	Thor Hotel	Seawater	RO	200	Aquamatch Turkiye	2023
United Arab Emirates	Al Hadi Beverages	Brackish water or inland water	RO	1,440	Aquamatch Turkiye	2022
United Arab Emirates	Coca Cola Al Ahlia Gulf Line	Brackish water or inland water	RO	1,776	Aquamatch Turkiye	2023
United Arab Emirates	Fujairah Fresh Water Production Co. Phase 2 SWRO Plant	Seawater	RO	3,500	Metito	2022
United Arab Emirates	Mirfa 2 IWP	Seawater	RO	545,520	Veolia Sidem (Societe Internationale De Dessalement d'Eau de Mer)	2023
United States	Brazosport BWRO pilot plant	Brackish water or inland water	RO	545		2022
United States	Hadnot Point WTP Replacement	Brackish water or inland water	RO	30,283	Biwater	2023
United States	Kalaeloa Seawater Desalination Project, HI	Seawater	RO	6,435	PERC Water Corporation, Consolidated Water	2022
United States	St. Lucie County BWRO, FL (BWRO 1)	Brackish water or inland water	RO	7,570	Wharton-Smith, Inc.	2023
United States	St. Lucie County BWRO, FL (BWRO 2)	Brackish water or inland water	RO	7,570	Wharton-Smith, Inc.	2023
United States	Texas River Water RO	River water or low concentrated saline water	RO	9,464	H2O Innovation	2022
Uzbekistan	Coca Cola Samarkant	Brackish water or inland water	RO	4,320	Aquamatch Turkiye	2023
Uzbekistan	Coca Cola Uzbekistan	Brackish water or inland water	RO	2,592	Aquamatch Turkiye	2022
Uzbekistan	ODAS Ozbekistan	Brackish water or inland water	RO	1,920	Aquamatch Turkiye	2022

Selected Reuse Plants Contracted 2019-2023

A listing of new reuse plants contracted between 2019 and 2023 with a capacity greater than 5,000 m³/d. The plant list is drawn from the IDRA/GWI Worldwide Desalting Inventory, GWI DesalData, and the GWI Water Reuse Inventory.

Country	Plant name	Treatment level	Capacity (m ³ /d)	Primary reuse sector	Award date
Algeria	Hassi Messaoud New Refinery	Other	21,500	Industrial	2019
Algeria	Sidi Abdella SUD WWTP	Other	32,000	Other/unknown	2021
Argentina	CO2 Stripping for Eramine Sudamericana S.A.	Other	43,113	Industrial	2022
Australia	SWA Mining Barrel B1 & B3	Other	9,600	Industrial	2022
Bahrain	Amwaj Island	Other	5,000	Other/unknown	2023
Belgium	UPI Power & Infrastructures Units	Other	150,000	Industrial	2019
Cambodia	SV Project PS3	Tertiary	6,100	Other/unknown	2019
Canada	Tertiary UF for Lakeshore Wastewater Co (Innisfil)	Triple barrier	67,000	Environmental enhancement	2020
Chile	Industrial Mining Facility	Other	76,800	Industrial	2021
Chile	Industrial Mining Facility	Other	72,000	Industrial	2021
China	Baoding Yindingzhuang Sewage Treatment Plant	Other	315,000	Environmental enhancement	2020
China	Baoyi thermal power plant reclaimed water transformation project	Triple barrier	11,500	Industrial	2022
China	Fengtai Hexi Reclaimed Water Plant Phase II	Tertiary	50,000	Urban non-potable use	2019
China	Gaocheng southern part new-built sewage treatment plant project	Other	55,000	Industrial	2022
China	Guangxi Huayi Chlor Alkali Chemical Co., Ltd	Other	18,000	Industrial	2021
China	Guizhou Kailin Fertilizer Yangshuihe Project	Triple barrier	15,120	Industrial	2020
China	Guodian Shenyang Thermal Power Chemical Water Upgrading	Triple barrier	13,680	Industrial	2020
China	Hebei Taihang Iron and Steel Group	Triple barrier	19,968	Industrial	2020
China	Huaneng Zhengning coal power coal mine wastewater advanced treatment project	Triple barrier	39,000	Industrial	2022
China	Hubei Sanning Chemical Co., LTD. WWTP	Triple barrier	45,600	Industrial	2022
China	Huizhou Pinghai power plant project	Triple barrier	12,000	Industrial	2022
China	Jincheng Wastewater Expansion Project (Phase 1)	Tertiary	35,000	Landscape irrigation	2022
China	Jincheng Wastewater Expansion Project (Phase 2)	Tertiary	120,000	Landscape irrigation	2022
China	Lianyungang Reuse project	Triple barrier	100,000	Industrial	2023
China	Municipal Wastewater Reuse Plant	Triple barrier	325,000	Other/unknown	2021
China	Municipal Wastewater Reuse Plant	Triple barrier	11,200	Other/unknown	2021
China	Petro-China Lanzhou Petrochemical Company	Triple barrier	13,249	Industrial	2020
China	Shihezi sewage treatment system project	Triple barrier	10,080	Other/unknown	2022
China	Source leakage sewage treatment project, Jiaoyishan Phosphogypsum storage yard, Guizhou Crach-Guiyang Phosphorus Fertilizer Co., Ltd	Triple barrier	20,400	Industrial	2019
China	Tangshan Nanpu Economic and Technological Development Zone WWTP Upgrading BOT Project	Triple barrier	100,000	Urban non-potable use	2019
China	TISCO NO.3 membrane workshop water reuse system project	Triple barrier	25,200	Other/unknown	2022
China	TISCO Shanxi Taigang Stainless Steel	Triple barrier	17,556	Industrial	2020
China	Wanhua Chemical new material condensate and desalted water station project	Triple barrier	21,600	Industrial	2022
China	Xiaojihan coal mining wastewater reuse	Triple barrier	34,848	Industrial	2019
China	Xinlianxin Fertilizer Reclaimed Water Project	Triple barrier	19,152	Industrial	2019
China	Xintian Coal Chemical biochemical workshop replacement project	Triple barrier	30,720	Industrial	2022
China	Yan'an Yaodian Sewage Ultrafiltration System	Other	50,000	Other/unknown	2021
Egypt	6th of October	Other	25,000	Other/unknown	2022
Egypt	Abu Qurkas Sewage Treatment Plant	Other	15,000	Other/unknown	2021
Egypt	Al Galalah Sewage Treatment Plant	Other	10,000	Other/unknown	2021
Egypt	Al Hammam WWTP	Tertiary	7,500,000	Agricultural irrigation	2021
Egypt	Al Nekaidy STP	Other	10,000	Urban non-potable use	2019

Country	Plant name	Treatment level	Capacity (m ³ /d)	Primary reuse sector	Award date
Egypt	Bahr al-Baqar WWTP	Tertiary	5,600,000	Agricultural irrigation	2019
Egypt	Barmasha WWTP	Other	20,000	Other/unknown	2021
Egypt	Ebrash & Kafr Ebrash Villages WWTP	Other	10,000	Other/unknown	2022
Egypt	El Kayan UF Reuse Plant	Triple barrier	100,000	Agricultural irrigation	2020
Egypt	El Mansoura Sewage Treatment Plant	Other	8,000	Other/unknown	2020
Egypt	El Mansoura Sewage Treatment Plant	Other	7,000	Other/unknown	2020
Egypt	Fowa Kafr El Sheikh	Other	10,000	Other/unknown	2020
Egypt	Kafr El Waslin Sewage Treatment Plant	Other	25,000	Other/unknown	2021
Egypt	Kahk WWTP	Other	7,500	Other/unknown	2022
Egypt	Madinaty WWTP and Reclamation Plant Phase II	Other	40,000	Agricultural irrigation	2019
Egypt	Manshiet Abbas	Other	12,000	Other/unknown	2020
Egypt	Manshiyet El Horreya WWTP-EGP	Other	30,000	Landscape irrigation	2019
Egypt	Manshiyet El Horreya WWTP-EUR	Other	30,000	Other/unknown	2019
Egypt	New El Alamein STP	Other	90,000	Urban non-potable use	2019
Egypt	Qantra West	Other	10,000	Other/unknown	2022
Egypt	Shama Village	Other	10,000	Other/unknown	2022
Egypt	Snita El Rafaeen STP	Tertiary	12,000	Other/unknown	2020
Egypt	Sobk El Ahd Village	Other	10,000	Other/unknown	2022
Egypt	Talya Village	Other	10,000	Other/unknown	2022
Egypt	Tanouf	Other	20,000	Other/unknown	2022
Egypt	Youssef Al Seddik WWTP	Other	5,000	Other/unknown	2022
India	Patiala District STPs & ETP	Other	43,500	Industrial	2020
India	Pimpri Chinchwad STPs	Tertiary	32,000	Urban non-potable use	2022
India	Thane tertiary treatment plant	Tertiary	5,000	Industrial	2019
India	Airoli WWTP	Tertiary	20,000	Industrial	2019
India	Bangalore K&C Valley WWTP upgrade	Tertiary	248,000	Groundwater recharge	2022
India	Bhiwadi CETP upgrade	Other	6,000	Other/unknown	2021
India	Diu STP	Other	7,000	Agricultural irrigation	2022
India	Ghaziabad TTP	Tertiary	40,000	Industrial	2022
India	Greater Visakhapatnam reuse	Other	63,000	Industrial	2021
India	Hisar STP	Tertiary	15,000	Landscape irrigation	2020
India	India Industrial Petrochemical Facility	Other	78,240	Industrial	2021
India	India Industrial Refinery Facility	Other	78,240	Industrial	2021
India	Indore STP	Other	35,000	Urban non-potable use	2022
India	Indore wastewater concession (IMC)	Other	100,000	Agricultural irrigation	2021
India	Jajmau Tannery Effluent Treatment Association (JTETA) CETP	Other	20,000	Industrial	2023
India	Jalandhar STP and TTP	Tertiary	10,000	Landscape irrigation	2020
India	Jamnagar STP rehab	Other	70,000	Urban non-potable use	2020
India	K&C VALLEY Sewage Treatment Plant	Other	248,000	Groundwater recharge	2022
India	Kopar Khairane WWTP	Tertiary	20,000	Industrial	2019
India	Kota STP	Other	30,000	Agricultural irrigation	2021
India	Kundli CETP upgrade	Other	6,000	Landscape irrigation	2020
India	Ramagundam STP	Other	17,000	Urban non-potable use	2022
India	SAS Nagar/AERO City STP and TTP	Tertiary	15,000	Landscape irrigation	2021
India	Shahdol STP	Other	17,000	Other/unknown	2022
India	Textile Effluent Treatment Plant	Tertiary	10,000	Other/unknown	2022
India	Visakhapatnam WWTP	Triple barrier	46,000	Industrial	2019
India	Wazirabad recycled water plant rehab	Other	50,000	Urban non-potable use	2019
India	Worli Wastewater Treatment Facility	Other	250,000	Urban non-potable use	2022
Israel	Ma'ayan Zvi	Tertiary	10,500	Domestic/potable use	2019
Jordan	Rehab of Irbid WWTP	Other	13,000	Other/unknown	2021
Jordan	Rehab of Wadi al Arab WWTP	Other	27,000	Other/unknown	2021
Kazakhstan	Koskhetau Project	Other	30,000	Other/unknown	2022
Kuwait	Umm al Hayman WWTP	Tertiary	500,000	Urban non-potable use	2020
Mongolia	Ulaanbaatar wastewater reuse plant	Tertiary	50,000	Other/Unknown	2022

SELECTED REUSE PLANTS CONTRACTED 2019-2023

Country	Plant name	Treatment level	Capacity (m ³ /d)	Primary reuse sector	Award date
Morocco	Boukhalef STP	Other	32,000	Other/unknown	2019
Nigeria	Nigeria Industrial Fertilizer Facility	Other	70,608	Industrial	2022
Paraguay	Rio Paraguay	Other	168,000	Industrial	2023
Poland	Police	Triple barrier	17,654	Industrial	2019
Qatar	Al Wakra Al Wukair	Tertiary	150,000	Other/unknown	2022
Qatar	Baladna	Other	6,000	Other/unknown	2020
Qatar	Barwa Housing WWTP	Other	27,200	Other/unknown	2021
Qatar	Barwa's Family Housing Sewage Treatment Plant	Other	15,337	Other/unknown	2021
Qatar	Barwa's Labor Accomodation Sewage Treatment Plant	Other	7,644	Other/unknown	2021
Qatar	Camp North Field Expansion WWTP	Other	15,700	Industrial	2021
Qatar	Ras Laffan Petrochemicals Project	Other	8,700	Industrial	2022
Saudi Arabia	Dammam WWTP	Tertiary	208,000	Landscape irrigation	2020
Saudi Arabia	Madinah WWTP and Reuse Plant	Tertiary	200,000	Other/unknown	2021
Saudi Arabia	Mowah Water Company	Triple barrier	20,000	Urban non-potable use	2019
Saudi Arabia	Sedra Site	Other	60,000	Other/unknown	2022
Saudi Arabia	Zuluf Water Treatment Plant	Other	185,000	Industrial	2023
Serbia	Zrenjanin Sewage Treatment Plant	Other	25,000	Other/unknown	2020
Spain	Monte Reverón WWTP, Tenerife	Other	24,000	Agricultural irrigation	2021
Spain	Boadilla del Monte WWTP, Improvements and Wastewater Pumping Station	Other	75,000	Other/unknown	2020
Spain	Guardamar del Segura WWTP	Tertiary	11,000	Agricultural irrigation	2023
Spain	Tenerife Oeste (Guía de Isora) reuse	Tertiary	11,955	Agricultural irrigation	2021
Spain	Torrent WWTP rehabilitation	Tertiary	18,000	Agricultural irrigation	2023
Spain	Villena WWTP	Tertiary	22,200	Urban non-potable use	2019
Tanzania	Mbezi Beach	Other	16,000	Other/unknown	2023
Thailand	Deisel Euro V Project	Other	8,640	Industrial	2022
Tunisia	Moknine 2	Other	5,000	Environmental enhancement	2020
Turkey	Socar Mecury Project	Other	30,000	Industrial	2019
United Arab Emirates	5 X NIROBOX-SW-XL	Triple barrier	5,000	Other/unknown	2019
United Arab Emirates	Aljada Sewage Treatment Plant	Other	16,500	Other/unknown	2020
United States	Carson Regional Water Recycling Facility (CRWRF) Expansion	Triple barrier	29,825	Industrial	2021
United States	Elsinore WRF expansion, CA	Other	15,140	Urban non-potable use	2020
United States	LA Advanced Water Purification Facility	Triple barrier	57,450	Groundwater recharge	2023
United States	Morro Bay WWTP, CA	Triple barrier	10,409	Groundwater recharge	2020
United States	North City Pure Water Facility	Triple barrier	128,690	Urban non-potable use	2021
United States	North Hollywood Central Treatment Facility	Tertiary	244,540	Groundwater recharge	2019
United States	North San Diego reuse, CA	Tertiary	11,355	Groundwater recharge	2020
United States	Oceanside IPR, CA	Triple barrier	17,033	Urban non-potable use	2020
United States	Post Falls Water Reclamation Facility, ID upgrade	Triple barrier	29,526	Urban non-potable use	2020
United States	San Bernardino Clean Water Factory, CA, Phase 1	Triple barrier	18,925	Groundwater recharge	2023
United States	San Luis Obispo WRRF upgrade, CA	Tertiary	19,303	Urban non-potable use	2019
United States	San Mateo direct potable reuse, CA	Tertiary	79,485	Domestic/potable use	2020
United States	Santa Margarita Conjunctive Use Project, CA	Triple barrier	27,252	Other/unknown	2019
United States	St. Lucie County BWRO, FL (WRF)	Other	7,570	Domestic/potable use	2023
United States	Tujunga Well Field	Tertiary	489,450	Groundwater recharge	2019
United States	Weatherford reuse project, TX	Tertiary	7,570	Domestic/potable use	2020
Uzbekistan	Namangan WWTP	Other	100,000	Other/unknown	2021

Chemical Treatment & Remineralisation

Selected references since 2012 for chemical suppliers in the desalination and reuse industry, including desalination post-treatment equipment.

Legend

(D) Desalination **(R)** Wastewater reuse

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SELECTED REFERENCES

Equipment Supplier: Antiscalant

Texas, United States 2019, 45,425 m³/d RO
Baja California, Mexico 2018, 215,767 m³/d RO
Peru 2018, 4,800 m³/d RO
Santa Cruz Province, Argentina 2018, 3,000 m³/d RO
California, United States 2017, 23,848 m³/d RO
California, United States 2017, 20,441 m³/d RO
California, United States 2014, 378,540 m³/d RO
Florida, United States 2014, 90,850 m³/d RO
California, United States 2014, 30,283 m³/d RO
Florida, United States 2013, 115,455 m³/d RO
California, United States 2013, 83,657 m³/d RO
Antofagasta, Chile 2012, 25,930 m³/d RO

Ain al Sokhna, Egypt 2018, 164,000 m³/d RO
Shuaibah 3, Saudi Arabia 2018, 150,000 m³/d RO
Al Hoceima, Morocco 2018, 100,000 m³/d RO
Jazan, Saudi Arabia 2018, 80,000 m³/d RO
Al Dur, Bahrain 2017, 218,000 m³/d RO
El Galalah, Egypt 2017, 150,000 m³/d RO
UTE, Tunisia 2017, 50,000 m³/d Other / Unknown
Al Yosr, Egypt 2015, 80,000 m³/d RO
Matrouh Seawater RO Desalination Plant, Bagoush - Matrouh, Egypt 2013, 24,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Chemicals

Abu Dhabi, United Arab Emirates 2020, 68,720 m³/d MSF

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SELECTED REFERENCES

Equipment Supplier: CO₂

Rabigh, Saudi Arabia 2021, 16,000 m³/d RO
Taweelah, Abu Dhabi, United Arab Emirates 2020, 380,000 m³/d RO
Umm Al Houl, Qatar 2019, 284,000 m³/d RO
Metito El Arish, Egypt 2019, 100,000 m³/d RO
Metito Layoune, Morocco 2019, 100,000 m³/d RO
Va Tech Wabag India, Project SONEDE Zarat SWRO, Tunisia 2019, 50,000 m³/d RO
Shuaibah 2, Saudi Arabia 2018, 250,000 m³/d RO
Al Dabaa, Egypt 2018, 164,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Post-treatment (Remineralisation)

SFAX SWRO Plant 200 MLD, Sfax, Tunisia 2023, 200,000 m³/d RO
150 MLD Sea water Desalination Plant, Nemmeli, India 2023, 150,375 m³/d RO
Antofagasta, fase 2 planta desaladora norte SWRO, Antofagasta, Chile 2023, 54,778 m³/d RO
ETAP Besos SWRO, Barcelona, Spain 2023, 31,968 m³/d RO
Shuqaiq phase 1 SWRO, Shuqaiq, KSA 2022, 400,000 m³/d RO
24 MLD Sea Water Desalination Plant for Tanajib IPP, Tanajib, KSA 2022, 26,256 m³/d RO

Mantoverde SWRO, Mantoverde, Chile 2022, 21,427 m³/d RO
 MISCP, Oman 2022, 15,000 m³/d RO
 Puerto Naos SWRO, Puerto Naos, Spain 2022, 12,000 m³/d RO
 WS14 Kangaroo Island, Kangaroo Island, Australia 2022, 2,808 m³/d RO
 Puerto rico SWRO, Puerto rico, Spain 2021, 6,500 m³/d RO
 Tenerife, Spain 2021, 700 m³/d RO
 Al Jubail SWRO desalination plant phase 2, Al Jubail, KSA 2020, 405,000 m³/d RO
 Pafos Desalination plant, Pafos, Cyprus 2020, 15,600 m³/d RO
 ETAP Mas Blau, Barcelona, Spain 2020, 7,200 m³/d RO
 Syros, Greece 2020, 5,000 m³/d RO
 Fuerteventura, Spain 2020, 3,000 m³/d RO
 Shuqaiq 3 IWP, Shuqaiq, KSA 2019, 450,000 m³/d RO
 Spence Growth options SWRO, Mejillones, Chile 2019, 86,830 m³/d RO
 Provisur SWRO, Lima, Peru 2019, 37,700 m³/d RO
 Djibouti 2019, 22,630 m³/d RO
 Durban, South Africa 2019, 6,240 m³/d RO
 Quebrada Blanca Fase 2, Tarapáca, Chile 2019, 3,600 m³/d RO
 Fuerteventura, Spain 2019, 3,000 m³/d RO
 Durban, South Africa 2019, 2,000 m³/d RO
 Emboodhoo Lagoon, Maldives 2019, 1,500 m³/d RO
 Taltal, Chile 2019, 950 m³/d RO
 Tenerife, Spain 2019, 720 m³/d RO
 Lanzarote, Spain 2019, 600 m³/d RO
 Gotland, Sweden 2018, 7,500 m³/d RO
 ETAP Sagnier, Barcelona, Spain 2018, 3,600 m³/d RO
 La Aldea de San Nicolás, Spain 2018, 2,700 m³/d RO
 Fonsalía SWRO, Fonsalía, Spain 2017, 14,000 m³/d RO
 La Caleta SWRO, La Caleta, Spain 2017, 10,000 m³/d RO
 Maldives Airport, Maldives 2017, 1,600 m³/d RO
 Ras Abu Fontas 3, Doha, Qatar 2016, 164,800 m³/d RO
 Maspalomas II, Maspalomas, Spain 2016, 19,500 m³/d RO
 JAZAN IGCC PROJECT, Jazan, KSA 2016, 6,000 m³/d RO
 Granadilla SWRO, Granadilla, Spain 2015, 14,000 m³/d RO
 Janubio SWRO, Janubio, Spain 2015, 11,800 m³/d RO
 Jeddah, KSA 2015, 1,440 m³/d RO
 Masdar Institute, Abu Dhabi 2015, 1,080 m³/d RO
 Mekorot's Desalination Plant, Ashdod, Israel 2014, 384,000 m³/d RO
 Adeje SWRO, Adeje, Spain 2014, 30,000 m³/d RO
 Telde SWRO, Telde, Spain 2013, 16,000 m³/d RO
 Maspalomas II, Maspalomas, Spain 2012, 12,000 m³/d RO

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www.genesysro.com

SELECTED REFERENCES

Consultant and Equipment Supplier: Chemicals

Arica Desalination Plant, Lluta Valley, Chile, 18,000 m³/d RO

Italmatch Chemicals S.p.A.



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We are also passionately committed to helping our customers meet today's (and tomorrow's) increasingly demanding sustainability targets and regulatory requirements, especially by conserving water, minimizing waste and promoting energy efficiency.

SELECTED REFERENCES

Equipment Supplier: Chemicals

Al Khobar, Saudi Arabia 2019, 630,000 m³/d RO

Dubai, United Arab Emirates 2018, 181,840 m³/d RO
 Um Al Houl, Qatar 2016, 347,770 m³/d MSF
 Hurghada, Egypt 2015, 80,000 m³/d RO
 Az Zour, Kuwait 2014, 486,400 m³/d MED
 Ras Abu, Qatar 2013, 163,656 m³/d MSF
 Yanbu, Saudi Arabia 2012, 550,070 m³/d MSF
 Dubai, United Arab Emirates, 2,136,620 m³/d MSF
 Dubai, United Arab Emirates, 727,374 m³/d MSF
 Dubai, United Arab Emirates, 650,090 m³/d MSF
 Jubail, Saudi Arabia, 472,794 m³/d MSF
 Doha West, Kuwait, 392,400 m³/d MSF
 Dubai, United Arab Emirates, 381,871 m³/d MSF
 Adelaide, Australia, 300,000 m³/d RO
 Ras Laffan, Qatar, 286,400 m³/d MSF
 Al Khobar, Saudi Arabia, 280,000 m³/d MSF
 Al Khobar, Saudi Arabia, 267,000 m³/d MSF
 Az Zour, Kuwait, 261,855 m³/d MSF
 Tianjin, China, 240,000 m³/d RO
 Muscat, Oman, 180,000 m³/d RO
 Dubai, United Arab Emirates, 136,000 m³/d MSF
 Abu Dhabi, United Arab Emirates, 130,000 m³/d RO
 Muscat, Oman, 130,000 m³/d RO
 Singapore, 113,000 m³/d RO
 Amman, Jordan, 110,000 m³/d RO
 Shoaiba, Saudi Arabia, 100,000 m³/d MED
 Tamil Nadu, India, 100,000 m³/d RO
 Ras Abu, Qatar, 90,000 m³/d MSF
 Abu Dhabi, United Arab Emirates, 73,800 m³/d MSF
 Yanbu, Saudi Arabia, 70,000 m³/d MED
 Varius, Oman, 70,000 m³/d RO
 Abu Nayan, Saudi Arabia, 67,500 m³/d RO
 Surat, India, 60,000 m³/d RO
 Maagan Michael, Israel, 50,000 m³/d RO
 Tobruk II, Libya, 40,000 m³/d MED
 Zuara III, Libya, 40,000 m³/d MED
 Abutaraba, Libya, 40,000 m³/d MED
 Derna, Libya, 40,000 m³/d MED
 Zuara Extension, Libya, 40,000 m³/d MED
 Matrouh, Egypt, 35,000 m³/d RO

Water Management

Carlsbad, United States of America 2012, 204,412 m³/d RO
 Jebel Ali, United Arab Emirates, 2,136,620 m³/d MSF
 Shuaiba, Saudi Arabia, 454,000 m³/d MSF
 Al Khobar, Saudi Arabia, 432,580 m³/d MSF
 Yanbu, Saudi Arabia, 321,625 m³/d MSF
 Dhekelia, Cyprus, 60,000 m³/d RO
 Caramondani Desalination Plant, Cyprus, 40,000 m³/d RO
 Mt. Pleasant Waterworks, United States, 26,495 m³/d
 Variable Salinity Plant, Singapore, 13,600 m³/d
 PUB Bedok NeWater Demo Plant, Singapore, 10,000 m³/d
 DOW 16" Membrane Pilot Study WWRP, Singapore, 2,400 m³/d RO
 Grahamtek EMF membrane Pilot Plant, Singapore, 1,800 m³/d

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SELECTED REFERENCES

Equipment Supplier: Polyelectrolyte Dosing System

The Umm Al Houl desalination plant, Qatar 2015, 284,000 m³/d RO

King Lee Technologies



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Membrane Process Chemicals and Process Design

Florida, United States 2020, 19,639 m³/d RO
 Missouri, United States 2019, 24,548 m³/d RO
 Missouri, United States 2019, 10,910 m³/d RO
 Missouri, United States 2019, 9,092 m³/d RO
 California, United States 2018, 67,282 m³/d RO
 China 2016, 160,000 m³/d RO
 U.S.A., United States 2016, 40,000 m³/d RO
 Saudi Arabia 2016, 40,000 m³/d RO
 Canada 2016, 40,000 m³/d RO
 South America 2014, 60,000 m³/d RO
 Egypt 2016, 24,000 m³/d RO
 India 2016, 8,000 m³/d RO
 Pakistan 2016, 8,000 m³/d RO
 China 2015, 160,000 m³/d RO
 Egypt 2014, 40,000 m³/d RO
 Pakistan 2014, 40,000 m³/d RO
 Colorado, United States 2014, 24,000 m³/d RO
 Southeast Asia 2014, 12,000 m³/d RO
 United Arab Emirates 2014, 20,000 m³/d RO
 Arizona, United States 2014, 16,000 m³/d RO
 Canada 2014, 16,000 m³/d RO
 Mexico 2014, 10,000 m³/d RO
 California, United States 2014, 8,400 m³/d RO
 India 2014, 8,000 m³/d RO
 Africa 2014, 4,000 m³/d RO
 Florida, United States 2014, 8,000 m³/d RO
 Bahrain 2014, 8,000 m³/d RO
 Arizona, United States 2013, 72,000 m³/d RO
 California, United States 2013, 42,000 m³/d RO



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China 2013, 38,000 m³/d RO
 Colorado, United States 2013, 26,000 m³/d RO
 Egypt 2013, 19,000 m³/d RO
 Virginia, United States 2013, 15,000 m³/d RO
 California, United States 2012, 224,000 m³/d RO
 California, United States 2012, 84,000 m³/d RO
 India 2012, 80,000 m³/d RO
 Arizona, United States 2012, 80,000 m³/d RO
 Arizona, United States 2012, 76,000 m³/d RO
 Colorado, United States 2012, 72,000 m³/d RO
 Central and South American RO Facility, Central and South America 2012, 52,000 m³/d RO
 Florida, United States 2012, 60,000 m³/d RO
 China 2012, 48,000 m³/d RO
 United Arab Emirates 2012, 48,000 m³/d RO
 Egypt 2012, 40,000 m³/d RO
 South America 2012, 40,000 m³/d RO
 Southeast Asia 2012, 40,000 m³/d RO
 South Korea 2012, 40,000 m³/d RO
 China 2012, 40,000 m³/d RO
 Colorado, United States 2012, 30,000 m³/d RO
 India/Pakistan, India 2012, 24,000 m³/d RO
 United Arab Emirates 2012, 20,000 m³/d RO
 Indonesia 2012, 20,000 m³/d RO
 Mexico 2012, 20,000 m³/d RO
 Canada 2012, 20,000 m³/d RO
 Saudi Arabia 2012, 12,000 m³/d RO
 Bahrain 2012, 4,000 m³/d RO
 Southeast Asia 2012, 20,000 m³/d RO

Piloting Membrane Process Chemicals and Process Design/Support

North City, San Diego, CA, United States, 113,562 m³/d RO

Equipment Supplier: Lime (Post-treatment)

Fountain Valley RO Project Retrofit, California, United States 2019, 100.0 MGD RO

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Equipment Supplier: Chemicals

Quebrada Blanca Phase 2, Quebrada Blanca Hipógenos, Tarapacá, Chile 2021, 112,000 m³/d RO
 Guaymas Desalination Plant, Guaymas, Sonora, Mexico 2020, 18,000 m³/d RO
 San Antonio Water Desalination Plant, San Antonio, Texas, U.S.A., 113,400 m³/d RO
 Cap Djinet Desalination Plant, Cap Djinet, Eastern Algeria, Algeria, 100,000 m³/d RO
 WEB Aruba, Aruba, 34,000 m³/d RO
 Aqualetra Mundo Nobo, Curaçao, 22,200 m³/d RO
 Aqualetra St. Barbara, Curaçao, 18,100 m³/d RO
 Aqualia, Mexico, 17,280 m³/d RO
 WEB Bonaire, Bonaire, Sint Eustatius and Saba, 7,200 m³/d RO
 Jaffna Desalination Plant, Jaffna, Northern Province, Sri Lanka 2022, 24,000 m³/d RO
 Tseung Kwang O Desalination plant, Tseung Kwang O, Hong Kong 2021, 135,000 m³/d RO
 Jurong Island Desalination Plant Number 5, Singapore 2019, 137,000 m³/d RO
 Barka 4 IWP, Oman 2016, 281,000 m³/d RO
 Tuas Desalination Plant, Singapore 2016, 136,000 m³/d RO
 Aguas Antofagasta, Chile, 2,160 m³/d RO
 Riyadh, Saudi Arabia 2016, 20,000 m³/d RO
 Tuas South Desalination Plant, Singapore 2012, 318,500 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Chemicals

United States 2023, 492,100 m³/d RO
 United States 2023, 378,540 m³/d RO
 United States 2023, 257,400 m³/d RO
 Singapore 2023, 140,000 m³/d RO
 United States 2023, 75,700 m³/d RO
 Sweden 2023, 3,000 m³/d RO
 GWRS, Orange County Water District, United States, 130 MGD RO
 Fresno-Clovis Regional Wastewater Reclamation Facility, City of Fresno, United States, 68 MGD RO
 Edward C. Little Water Recycling Facility, West Basin Municipal Water District, United States, 20 MGD RO
 Oxnard Advanced Water Purification Facility, City of Oxnard, United States, 13 MGD RO

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SELECTED REFERENCES

Equipment Supplier: Chemicals and Chemical Feed Systems

RO project, Switzerland, RO

Technology Provider: Remineralisation

Hondoq Desalination Plant, Gozo, Malta 2019, 9,000 m³/d Other / Unknown

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<https://www.organo.co.jp/english>

www.organo.co.jp/english/products/#chemical

SELECTED REFERENCES

Equipment Supplier: Chemicals

Kagoshima, Japan, 5,400 m³/d RO

Vietnam, 4,848 m³/d RO

Tomari Nuclear Power Station, Hokkaido, Japan, 4,140 m³/d RO

Cilegon, Indonesia, 3,500 m³/d RO

Malaysia, 746 m³/d RO

Indonesia, 500 m³/d RO

Bintuni, Indonesia 2018, 1,500 m³/d RO

Vietnam 2017, 4,140 m³/d RO

Kagoshima, Japan 2017, 500 m³/d RO

Taiwan 2016, 30,000 m³/d RO

Cilegon, Banten, Indonesia 2016, 5,400 m³/d RO

Cilegon, Banten, Indonesia 2016, 4,848 m³/d RO

Indonesia 2016, 4,800 m³/d RO

Malaysia 2016, 1,440 m³/d RO

Kansai, Japan 2016, 1,200 m³/d RO

Kyushu, Japan 2016, 900 m³/d RO

Chubu, Japan 2015, 20,000 m³/d RO

Taiwan 2015, 16,000 m³/d RO

Taiwan 2015, 5,800 m³/d RO

Chugoku, Japan 2015, 3,800 m³/d ED

PWT



www.pwtchemicals.com

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Equipment Supplier: Chemicals

Philippines, 150,000 m³/d RO

China, 100,000 m³/d RO

China, 99,924 m³/d RO

China, 48,070 m³/d RO

United Arab Emirates, 45,420 m³/d RO

India, 40,000 m³/d RO

United States, 37,850 m³/d RO

Thailand, 24,000 m³/d RO

China, 21,575 m³/d RO

United States, 15,140 m³/d RO

United States, 14,762 m³/d RO

United Arab Emirates, 14,000 m³/d RO

Mexico, 11,520 m³/d RO

Thailand, 10,400 m³/d RO

Thailand, 5,000 m³/d RO

Mexico, 3,983 m³/d RO

Egypt, 3,407 m³/d RO

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Equipment Supplier: Chemicals

Ghubra Power and Water, Al Ghubrah, Oman 2012, 190,909 m³/d MSF

Marafiq Jubail IWPP, Al Jubail, Saudi Arabia 2007, 800,000 m³/d MED

Ministry of Electricity and Water, Kuwait, 1,880,909 m³/d MSF

Qatar Electricity and Water Company, (QEWC), Qatar, 900,000 m³/d MSF

ITM Umm Al Nar, Abu Dhabi, United Arab Emirates, 730,000 m³/d MSF

Homs Power and Water Station, Libya, 410,000 m³/d MSF

GECOL Homs Power and Water Station, Libya, 410,000 m³/d MSF

Ras Lanuf Oil Company (RASCO), Libya, 410,000 m³/d MSF

Hidd Power Company, Bahrain, 272,000 m³/d MED

General Desalination Company Libya (All Plants), Libya, 190,000 m³/d MED

Sohar Power and Desalination Plant, Oman, 163,363 m³/d MSF

Hidd Power Company, Bahrain, 140,000 m³/d MSF

Sitra Power and Water Station, Bahrain, 113,000 m³/d MSF

Aluminium Bahrain, Bahrain, 41,000 m³/d MED

Libya Iron and Steel Company, Libya, 31,000 m³/d MSF

UCDEM St. Barthelemy, French West Indies, France, 9,000 m³/d MED

Tripoli West Power Station, Libya, 9,000 m³/d MED

Hawar Power Station, MEW, Bahrain, 2,300 m³/d MED

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GAS LAB is a globally recognized expert for smarter, safer and greener CO₂ technology solutions for the desalination industry. The CIS® range of advanced CO₂ dosing systems offer superior conversion efficiencies, while being inexpensive to own and easy to maintain. GAS LAB serves the complete CO₂ spectrum for water treatment facilities - from on-site generation and carbon capture to storage and injection.

GAS LAB offers Carbonic acid Injection Systems (CISx®) designed for high efficiency pH control without the use of expensive CO₂ absorbers. CISx® offers a distinct liquid-liquid reaction, resulting in reduced consumption of pH sensitive pre and post treatment chemicals while avoiding downstream issues with gas bubbles.

CIS® dosing systems can be combined with custom CO₂ Storage/Capture or Generation plants for an end-to-end re-carbonation solution.

Possessing over 60 years of proven technical experience with application-oriented solutions in over 25 countries, GAS LAB has successfully delivered more than 500 systems worldwide, ranging in size and complexity. GAS LAB's in-house manufacturing capabilities for pressure vessels, heat exchangers, boilers and columns ensure tighter quality control, reduced delivery time, cost compatibility along with high availability. GAS LAB's manufacturing unit regularly produces vessels compliant with ASME 'U' Designator, CE Mark and for various challenging industry standards such as oil and gas.

Focused on producing industry specific research, GAS LAB's R&D center enjoys technical collaborations with leading engineering institutes of Europe and Asia.

GAS LAB's innovative Carbon Capture Utilisation and Storage (CCUS) solutions are helping desalination plant owners achieve net zero emissions while reducing operational costs and securing upstream supply chains.

SELECTED REFERENCES

CO₂ Generation System

Jubail 3A IWP, Saudi Arabia 2021, 60,000 m³/d RO
ADNOC Waste Heat Recovery Project Ruwais, United Arab Emirates 202, 62,400 m³/d MED
Barka - 1 Phase 2 SWRO Project, Barka, Oman 2016, 56,800 m³/d RO

CO₂ Storage with Carbonic Injection System (CISx®)

RIL Jamnagar, Gujarat, India 2023, 2,000 m³/d RO
Jubail 3B IWP, Al Jubail, Saudi Arabia 2022, 57,000 m³/d RO
Adani Ports and SEZ, Gujarat, India 2022, 33,000 m³/d RO
NFE Ras Laffan, Ras Laffan, Qatar 2022, 283,000 m³/d RO
Red Sea Utility Assets and Infrastructure and Projects, Saudi Arabia 2022, 45,000 m³/d RO
Salalah IWP, Oman 202, 114,000 m³/d RO
ADNOC Waste Heat Recovery Project Ruwais, United Arab Emirates 202, 62,400 m³/d MED
MRPL Sea Water Desalination Project, India 202, 3,000 m³/d RO
NTPCL Vallur Thermal Power Project, India 2018, 2,000 m³/d RO

CO₂ Storage with CO₂ Gas Injection System (CISe®)

Jubail 2 IWP, Al Jubail, Saudi Arabia 2023, 1,00,000 m³/d RO
Collahausi IDAM, Puerto Patche, Chile 2023, 9,720 m³/d RO
Barka 5 IWP, Barka, Oman 2022, 10,000 m³/d RO
Jubail 3A IWP, Saudi Arabia 2021, 60,000 m³/d RO
SWCC Al Khobar -1 SWRO Plant, Saudi Arabia 202, 21,000 m³/d RO
MRPL Sea Water Desalination Project, India 202, 3,000 m³/d RO
Sewage Treatment Plant Akshardham Temple, India 2017, 4,540 m³/d
Barka - 1 Phase 2 SWRO Project, Barka, Oman 2016, 56,800 m³/d RO
Nemmeli Seawater Desalination Plant, India 2012, 10,000 m³/d RO

The above references are specifically for major desalination plants, for detailed references, kindly contact us at: sales@ssgaslabasia.com

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SELECTED REFERENCES

Supplier: CO₂ Dosing

Balikkpapan Refinery Plant, Balikpapan, East Kalimantan, Indonesia, 1,800 m³/d Other / Unknown

Supplier: Remineralisation (CO₂ - Acidified)

El Tor, Egypt 2017, 30,000 m³/d RO

Qurayyat IWP, Oman 2016, 200,000 m³/d RO

Rabab Harweel Integrated Project (RHIP), Harweel, Oman 2016, 927 m³/d RO

Yanbu, Saudi Arabia 2015, 30,000 m³/d RO

Charles Meyer SWRO Plant, Santa Barbara, California, United States 2015, 10,475 m³/d RO

Ma'aden Wa'ad Al-Shamal, Wa'ad Al-Shamal, Saudi Arabia 2015, Other / Unknown

Masdar Renewable Energy, Abu Dhabi, United Arab Emirates 2015, RO

Masdar renewable energy, Abu Dhabi, United Arab Emirates 2015, RO

Minera Escondida, Antofagasto, Chile 2014, 216,000 m³/d RO

Central Java Power, Pemalang, Central Java, Indonesia 2014, Other / Unknown

Sadara Chemical, Jubail, Saudi Arabia 2013, 178,560 m³/d RO

Ma'aden, Al Khafji, Saudi Arabia 2013, Other / Unknown

Ghalilah, United Arab Emirates 2012, 68,140 m³/d RO

Paraguana, Venezuela 2012, RO

Ras Al-Khair Power and Desalination Plant 2, Ras Al-Khair, Eastern province, Saudi Arabia 2022, 750,000 m³/d MSF

Al Khafji Water Desalination plant (SWCC) Plant 3, Al Khobar, Eastern province, Saudi Arabia 2022, 540,000 m³/d MSF

Al Shuqaiq Power and Desalination Plant, Al Shuqaiq, Makkah, Saudi Arabia 2022, 450,000 m³/d RO

Al Khafji Water Desalination plant (SWCC) Plant 2, Al Khafji, Eastern province, Saudi Arabia 2022, 75,000 m³/d MED

Mega Water Company RO Plants, Cairo, Egypt 2022, 70,000 m³/d RO

Al Lith Water Desalination plant (SWCC) Plant 2, Al Lith, Makkah, Saudi Arabia 2022, 45,200 m³/d RO

Al Jazeerah Environmenetal Co. (JECO) Plant 2, Dammam, Eastern province, Saudi Arabia 2022, 40,000 m³/d RO

ADNOC Refining, Abu Dhabi, Ruwais, United Arab Emirates 2022, 15,000 m³/d MSF

Al Lith Water Desalination plant (SWCC) Plant 1, Al Lith, Makkah, Saudi Arabia 2022, 9,000 m³/d MED

Jubail Water Desalination plant (SWCC), Jubail, Eastern province, Saudi Arabia 2021, 933,632 m³/d MSF

Shuaibah Water & Electricity plant-3 (SWEC/NOMAC), Shuaibah, Makkah, Saudi Arabia 2021, 880,000 m³/d MSF

Sinai Holding Company RO Plants, Sinai, Egypt 2021, 150,000 m³/d RO

AL FATAH Water and Power (RAWAFID), Jubail, Eastern province, Saudi Arabia 2021, 75,000 m³/d RO

Intec Hassan Allam RO plants, Sharm El Sheikh, Sinai, Egypt 2021, 30,000 m³/d RO

Kharafi National company for Emar Plant, Marasi, Alamin, Egypt 2021, 20,000 m³/d RO

Jubail Water Desalination plant (SWCC), Jubail, Eastern province, Saudi Arabia 2020, 933,632 m³/d MSF

Shuaibah Water & Electricity plant-3 (SWEC/NOMAC), Shuaibah, Makkah, Saudi Arabia 2020, 880,000 m³/d MSF

Layyah Power Station (SEWA), Sharjah, United Arab Emirates 2020, 223,339 m³/d MSF

Al Jazeerah Environmenetal Co. (JECO) Plant 3, Dammam, Eastern province, Saudi Arabia 2020, 45,000 m³/d RO

Al Jazeerah Environmenetal Co. (JECO), Dammam, Eastern province, Saudi Arabia 2020, 30,000 m³/d RO

Saline Water Conversion Corporation (SWCC) Satellite Plants, Rabbigh, Makkeh, Saudi Arabia 2020, 18,000 m³/d MED

Layyah Power Station (SEWA), Sharjah, United Arab Emirates 2019, 223,339 m³/d MSF

Jeddah Water & Electricity plant-3 (SWEC/NOMAC), Jeddah, Makkah, Saudi Arabia 2019, 190,555 m³/d MSF

Sidem Saudi Co., Jubail, Eastern province, Saudi Arabia 2019, 182,907 m³/d RO

Al-Waha Water Treatment, Jubail, Eastern province, Saudi Arabia 2019, 22,000 m³/d RO

Mowah water company, Jeddah, Makkah, Saudi Arabia 2019, 20,000 m³/d RO

Al Jazeerah Environmenetal Co. (JECO) Plant 1, Jeddah, Makkah, Saudi Arabia 2019, 10,000 m³/d RO

Al Melaihi Water Treatment, Jubail, Eastern province, Saudi Arabia 2019, 6,000 m³/d RO

Jeddah Water & Electricity plant-3 (SWEC/NOMAC), Jeddah, Makkah, Saudi Arabia 2018, 190,555 m³/d MSF

Jubail Water Desalination plant (SWCC), Jubail, Eastern province, Saudi Arabia 2017, 933,632 m³/d MSF

Jeddah Water & Electricity plant-3 (SWEC/NOMAC), Jeddah, Makkah, Saudi Arabia 2017, 190,555 m³/d MSF

Shuaibah Water & Electricity plant-3 (SWEC/NOMAC), Shuaibah, Makkah, Saudi Arabia 2016, 880,000 m³/d MSF

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Equipment Supplier : Chemicals

Fujairah Asia Power Company, Fujairah, United Arab Emirates 2023, 455,000 m³/d MED

Ras Al-Khair Power and Desalination Plant 1, Ras Al-Khair, Eastern province, Saudi Arabia 2023, 400,000 m³/d RO

Metito biocide supplying plants, Jeddah, Makkah, Saudi Arabia 2023, 75,000 m³/d RO

SEC (Wettico), Jeddah, Makkah, Saudi Arabia 2023, 68,200 m³/d MED

Al Khafji Water Desalination plant (SWCC) Plant 1, Al Khafji, Eastern province, Saudi Arabia 2023, 60,000 m³/d RO

City Water Company RO Plants, Sharqia, Egypt 2023, 12,000 m³/d RO

Jeddah, Makkah, Saudi Arabia 2023, 400 m³/d RO

Developers & Plant Suppliers

Selected references since 2012 from desalination and reuse developers and plant suppliers, including EPC contractors and systems integrators/OEMs.

Legend


 Desalination  Wastewater reuse

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*Coxabengoa as of October 2023

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SELECTED REFERENCES

EPC Contractor

Jubail 3A Desalination Plant, Saudi Arabia 2020, 600,000 m³/d RO

Taweelah IWP Desalination Plant, Abu Dhabi, United Arab Emirates 2019, 909,000 m³/d RO

Rabigh 3 IWP Desalination Plant, Saudi Arabia 2019, 600,000 m³/d RO

SWRO Plant for Emirates Global Aluminium Complex, Jebel Ali, United Arab Emirates 2019, 41,000 m³/d RO

Salalah 3 IWP Desalination Plant, Oman 2018, 114,000 m³/d RO

Agadir Desalination Plant, Morocco 2017, 275,000 m³/d RO

Shoaiba 3 Expansion 2 IWP, Saudi Arabia 2017, 250,000 m³/d RO

Sousse Phase 1, Tunisia 2017, 50,000 m³/d RO

Durango, Mexico 2017, 1,700 m³/d RO

Yopal, Colombia 2015, 67,392 m³/d RO

Al Khafji, Saudi Arabia 2015, 60,000 m³/d RO

Madrid I, Cundinamarca, Colombia 2015, 14,170 m³/d RO

Norte III Combined Cycle Plant, Chihuahua, Mexico 2015, 1,300 m³/d RO

Atacama Solar Thermal Plant, Atacama, Chile 2015, 270 m³/d RO

Norte III Combined Cycle Plant, Chihuahua, Mexico 2015, 18 m³/d RO

Atacama Solar Thermal Plant, Atacama, Chile 2015, 12 m³/d RO

Ténès, Algeria 2014, 200,000 m³/d RO

Agadir, Morocco 2014, 100,000 m³/d RO

Ratnapura, Sri Lanka 2014, 13,000 m³/d RO

AES Angamos, Mejillones, Chile 2014, 4,800 m³/d RO

Masdar Renewable Energy I, Abu Dhabi, United Arab Emirates 2014, 1,080 m³/d RO

Carty Combined Cycle Plant, Oregon, United States 2014, 490 m³/d RO

Montes del Plata, Punta Pereira, Uruguay 2013, 25,000 m³/d RO

Barka 1 IWPP Expansion, Oman 2012, 45,460 m³/d RO

Developer/Co-developer and EPC Contractor

Water Treatment Plant Accra, Nungua, Accra, Ghana 2012, 60,000 m³/d RO

Absun Zolal



www.absunwater.com

SELECTED REFERENCES

Plant Supplier

Mobarakeh Steel Co., Esfahan, Iran, 18,000 m³/d RO

Sarmad Steel, Yazd, Iran, 10,000 m³/d RO

Abadan Petrochemical, Bandar Abbas, Iran, 4,800 m³/d Other / Unknown

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SELECTED REFERENCES

Design, Construction and Operation

DWTP Laguna Lake, Muntinlupa, Philippines 2020, 150,000 m³/d RO

SWRO Tseung Kwan O, Hong Kong 2019, 135,000 m³/d RO

Developer/Co-developer

The mining company Compañía Minera Doña Inés de Collahuasi (CMDIC), Collahuasi's Patache Port, Tarapacá region of Chile, Chile 2022, 90,720 m³/d RO

Madinah-3, Al Madinah Al Munawwarah, Saudi Arabia 2021, 200,000 m³/d

Buraydah-2, Buraydah, Saudi Arabia 2021, 150,000 m³/d

Tabuk-2, Tabuk, Saudi Arabia 2021, 90,000 m³/d

Los Cabos, Mexico 2021, 21,600 m³/d RO

Equipment Supplier

Ras Abu Fontas A2, Ras Abu Fontas, Qatar 2015, 164,000 m³/d RO

O&M Contractor

Burgos, Spain 2022, 156,000 m³/d

300 WWTP, Sardinia, Italy 2021, 330,000 m³/d Other / Unknown

Oropesa SWRO, Oropesa de Mar, Spain 2021, 48,700 m³/d RO

Desalination for new refinery, Talara, Peru 2021, 20,563 m³/d RO

Plant Supplier (Desal)

Muskiz, Biscay, Spain 2021, 4,600 m³/d
 Los Merinos, Guayaquil, Ecuador 2021
 Shuqaiq SWRO 1, Saudi Arabia 2020, 400,000 m³/d RO
 Al Khobar II SWRO, Khobar, Saudi Arabia 2019, 630,000 m³/d RO
 SWRO Al Khobar II, Khobar, Saudi Arabia 2019, 630,000 m³/d RO
 Shuqaiq III SWRO, Al Shuqaiq, Saudi Arabia 2019, 450,000 m³/d RO
 SWRO Shuqaiq III, Al Shuqaiq, Saudi Arabia 2019, 450,000 m³/d RO
 Jebel Ali Power and Desalination station complex (JAPS), Dubai, United Arab Emirates 2018, 181,840 m³/d RO
 Práceres, Pontevedra, Spain, 51,840 m³/d

Plant Supplier and Operator (Desal)

TKO, Hong Kong 2020, 135,000 m³/d RO
 Umm Al Houl Extension, Doha, Qatar 2019, 272,760 m³/d RO
 Al-Khobar 1, Saudi Arabia 2018, 210,000 m³/d RO
 Putatan 2, Manila, Philippines 2016, 150,000 m³/d RO
 Ras Abu Fontas A3, Al Wakrah, Ras Abu Fontas, Qatar 2015, 163,656 m³/d RO
 Isla de Sal, Cabo Verde 2014, 5,000 m³/d RO
 Sao Vicente, Cabo Verde 2014, 5,000 m³/d RO
 Fujairah 1, Fujairah, United Arab Emirates 2012, 137,000 m³/d RO
 SWRO-4 (Al-Jubail), Eastern Providence, Saudi Arabia 2012, 100,000 m³/d RO

Plant Supplier, Owner and Operator

Al Jubail 3B, Saudi Arabia 2021, 570,000 m³/d RO

Japan 2019, 150 m³/d RO
 Japan 2019, 100 m³/d RO
 Japan 2018, 240 m³/d RO
 Hawaii, United States 2018, 200 m³/d RO
 Qatar 2018, 180 m³/d RO
 Japan 2017, 500 m³/d RO
 Japan 2017, 312 m³/d RO
 Fiji 2017, 300 m³/d RO
 Japan 2017, 300 m³/d RO
 Japan 2017, 220 m³/d RO
 Fiji 2017, 220 m³/d RO
 Japan 2017, 100 m³/d RO
 Fiji 2017, 100 m³/d RO
 Japan 2016, 400 m³/d RO
 Japan 2016, 288 m³/d RO
 Japan 2016, 240 m³/d RO
 French Polynesia 2016, 150 m³/d RO
 Fiji 2016, 100 m³/d RO
 Palau 2016, 100 m³/d RO
 Japan 2016, 100 m³/d RO
 Philippines 2015, 750 m³/d RO
 Sri Lanka 2015, 350 m³/d RO
 United States Minor Outlying Islands 2015, 240 m³/d RO
 Abu Dhabi, United Arab Emirates 2014, 1,000 m³/d RO
 Japan 2013, 300 m³/d RO
 Colombo, Sri Lanka 2013, 200 m³/d RO
 Nadi, Fiji 2013, 130 m³/d RO
 Mie, Japan 2013, 120 m³/d RO
 Miyagi, Japan 2013, 100 m³/d RO
 Nadi, Fiji 2013, 100 m³/d RO
 Hawaii, United States 2012, 120 m³/d RO
 Power Plant Project, Fukushima, Japan 2012, 100 m³/d RO
 Nadi, Fiji 2012, 100 m³/d RO
 Desalination Project, Shizuoka, Japan 2011, 200 m³/d RO
 LNG Project, Algeria 2010, 1,000 m³/d RO
 LNG Project, Southeast Asia, Papua New Guinea 2010, 500 m³/d
 Other / Unknown
 Japan, 500 m³/d RO
 Maldives, 500 m³/d RO
 Djibouti, 336 m³/d RO
 Japan, 250 m³/d RO
 Fiji, 210 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Kagawa, Japan 2022, 1,000 m³/d RO
 Kagoshima, Japan 2022, 480 m³/d RO
 Shimane, Japan 2022, 440 m³/d RO
 Osaka, Japan 2022, 300 m³/d RO
 Ibaraki, Japan 2022, 240 m³/d RO
 Palawan, Philippines 2022, 100 m³/d RO
 Male, Maldives 2022, 100 m³/d RO
 Japan 2019, 630 m³/d RO
 Antigua and Barbuda 2019, 400 m³/d RO
 Northern Mariana Islands 2019, 250 m³/d RO
 Japan 2019, 200 m³/d RO

ACS (Actividades de Construcción y Servicios)



www.grupoacs.com

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EPC Contractor

Ras Al Khaimah, United Arab Emirates 2016, 100,000 m³/d RO
Villapérez WWTP - Expansion, Asturias, Spain 2013, 400,000 m³/d Tertiary treatment

Viveros de la Villa WWTP - Expansion, Madrid, Spain 2013, 120,000 m³/d Tertiary treatment

Estiviel WWTP, Toledo, Spain 2012, 70,000 m³/d Tertiary treatment

Alguazas WWTP, Alguazas, Spain 2012, 15,000 m³/d Filtration, UV disinfection

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SELECTED REFERENCES

Plant Supplier (Reuse)

Borriol WWTP, Castellón, Borriol, Spain 2014, Tertiary treatment

ACWA Power (Arabian Company for Water & Power Development)



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SELECTED REFERENCES

Developer/Co-developer

Shuaibah 3 IWP, Western Saudi Arabia, Red Sea, Saudi Arabia 2022, 600,000 m³/d RO

Rabigh 4 IWP, Rabigh, Western Saudi Arabia, Red Sea, Saudi Arabia 2022, 600,000 m³/d RO

The Red Sea Project, North of Jeddah, Western Saudi Arabia, Red Sea, Saudi Arabia 2021, 33,000 m³/d RO

Umm Al Quwain IWP, United Arab Emirates 2020, 681,900 m³/d RO

Jubail 3a IWP, Saudi Arabia 2020, 600,000 m³/d RO

Taweelah IWP, United Arab Emirates 2019, 909,218 m³/d RO
Rabigh 3 IWP, Saudi Arabia 2019, 600,000 m³/d RO
Al-Dur 2 IWPP, Bahrain 2019, 227,000 m³/d RO
Salalah IWP, Salalah, Arabian Sea, Saudi Arabia 2018, 113,650 m³/d RO
Shuaibah 3 Exp 2 IWP, Saudi Arabia 2017, 250,000 m³/d RO
Salalah IWP, Dhofar, Oman 2017, 113,650 m³/d RO
Hassyan Power Plant (DEMIN), United Arab Emirates 2016, 10,000 m³/d RO
Sohar 3 Power Plant (DEMIN), Oman 2016, 9,000 m³/d RO
Rabigh IWSP Expansion, Saudi Arabia 2015, 96,000 m³/d RO
Barka 1 Exp 2 IWP, Oman 2015, 56,826 m³/d RO
Petrorabigh IWSP Phase 2, Saudi Arabia 2015, 54,000 m³/d RO
Rabigh 2 Power Plant (DEMIN), Saudi Arabia 2014, 8,000 m³/d RO
Barka 1 Exp 1 IWP, Oman 2012, 45,460 m³/d RO

**EPC Contractor, Through Local Joint Venture
Sasakura Middle East Company**

Shoaiba, Saudi Arabia 2015, 91,200 m³/d MED

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SELECTED REFERENCES

Contractor

Princess Noura University for Women (PNUFW), Riyadh, Saudi Arabia 2012, 7,000 m³/d RO

Brackish Water RO Plant, Princess Noura University for Women, Riyadh, Saudi Arabia 2011, 13,000 m³/d RO

Golden Sands, Oman 2011, 850 m³/d RO

Plant Supplier (Desal)

15 plants, each 50-300 m³/d, Static Company, Maldives, RO

Adionics (Advanced Ionic Solutions)



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SELECTED REFERENCES

Equipment Design, Flionex Supply, Start-up and Operation

Selective NaCl extraction Demonstration Unit, Martigues, France 2017, 50 m³/d Other / Unknown

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SELECTED REFERENCES

EPC Contractor

United Arab Emirates 2013, 1,200 m³/d RO

Aerex Industries



www.aerexglobal.com

SELECTED REFERENCES

General Contractor and Membrane System Provider

Windsor Bahamas, Grand Cayman, Cayman Islands 2018, 11,300 m³/d RO

Membrane System Provider

Seminole - Brighton, Okeechobee, Florida, United States 2018, 7,500 m³/d RO

Governors Harbour III-1, Grand Cayman, Cayman Islands 2018, 3,700 m³/d RO

Vero Beach, Florida, United States 2017, 9,400 m³/d RO
 Village of Tequesta, Florida, United States 2015, 4,500 m³/d RO
 Governors Harbour II-2, Grand Cayman, Cayman Islands 2015, 3,700 m³/d RO
 Seminole - Big Cypress, Clewiston, Florida, United States 2015, 3,000 m³/d RO
 Davie, Florida, United States 2014, 30,200 m³/d RO
 Myakkahatchee Creek, North Port, Florida, United States 2014, 5,600 m³/d Other / Unknown
 Seacoast Utility Authority, Palm Beach Gardens, Florida, United States 2012, 111,600 m³/d NF

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Over the past 25 years AES ARABIA LTD. has developed a reputation as high quality solutions providers for a diversified range of water treatment applications and Oil and Gas Filtration system. This included the execution of prestigious projects with highly demanding clients ranging from zero liquid discharge utilizing Ultra High Lime process and Brine Concentration, Produced Water Treatment for re-injection in oil-field applications, treatment of highly brackish water with high H₂S content and high fouling potential, steel mill oily water reclamation and reuse, Ultra Pure water, Leachate wastewater treatment, and high efficiency seawater desalination as well as containerized and mobile units for remote areas.

AES has also consistently consolidated its position and market share in the booming Oil & Gas sector in the Middle East and established strong presence in more Gulf and MENA markets such as Sudan, UAE, Oman and Iraq.

With vast experience in the field, and continued success in various markets, AES is now also offering water treatment plants on a DBO and BOT basis to cater for the growing needs of public and private sector clients. For existing plants, AES offers operation & maintenance, plant optimization, troubleshooting and repair services.

In brief, AES is a world class solutions provider with a dynamic and most experienced team on board, offering high quality desalination systems employing the latest technologies to meet the ever increasing challenges of the industry

SELECTED REFERENCES

Equipment Supplier: Desalination System

- Golden Chicken Farms Co. For Agricultural & Animal Production, Musiqra, Saudi Arabia 2023, 302 m³/d RO
 - 5D Al-Dammam Business Park, Dammam, Saudi Arabia 2023, 300 m³/d RO
 - Hussain Al Ali Private Villa, Al Hasa, Saudi Arabia 2023, 15 m³/d RO
 - Pp12, Dhurma, Saudi Arabia 2022, 1,286 m³/d RO
 - Pmu Campus, Khobar, Saudi Arabia 2022, 912 m³/d RO
 - Abdullah Abdullatif Ahmed Alfozan Private Resort, Azizia, Saudi Arabia 2022, 700 m³/d RO
 - Ohud General Hospital, Madinah, Saudi Arabia 2022, 500 m³/d RO
 - Alain Poultry Farm, Qarya Olya, Saudi Arabia 2022, 499 m³/d RO
 - Saudi Factor For Chlorines And Alkalies, Riyadh, Saudi Arabia 2022, 389 m³/d RO
 - Saudi Airlines Catering Jeddah Unit, Jeddah, Saudi Arabia 2022, 312 m³/d RO
 - King Faisal Air Academy, Majmah, Saudi Arabia 2022, 250 m³/d RO
 - King Faisal Specialist Hospital, Riyadh, Saudi Arabia 2022, 174 m³/d RO
 - Future Harvest - Sudair Factory, Sudair, Saudi Arabia 2022, 168 m³/d RO
 - Mouwasat Hospital, Riyadh, Saudi Arabia 2022, 120 m³/d RO
 - Abdullah Abdullatif Ahmed Alfozan Private Villa, Khobar, Saudi Arabia 2022, 80 m³/d RO
 - My Clinic, Riyadh, Saudi Arabia 2022, 30 m³/d RO
 - Durrat Alriyadh RO, Riyadh, Saudi Arabia 2021, 4,517 m³/d RO
 - Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2021, 2,208 m³/d RO
 - Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2021, 2,208 m³/d RO
 - Radwa Chicken Factory, Jeddah, Saudi Arabia 2021, 756 m³/d RO
 - Golden Chicken New Shaqra Farm, Shaqra, Saudi Arabia 2020, 2,613 m³/d RO
 - New Shaqra Farm Barakah # 5, Shaqra, Saudi Arabia 2020, 502 m³/d RO
 - Hawiyah-Unayzah Gas Reservoir Storage (Hugrs), Hawiyah-Unayzah, Saudi Arabia 2020, 208 m³/d RO
 - Rehabilitation Of Electromechanical Equipment Of Ro Plant Sec-Jpp, Jizan, Saudi Arabia 2020, 60 m³/d RO
 - Sihat Boys Intermediate School (Sbis), SIHAT, Saudi Arabia 2020, 3 m³/d RO
 - Al Nahdi Warehouse Project, SAFWA, Saudi Arabia 2020, 3 m³/d RO
 - Rahima Girls Elementary School (Rges), RAHIMAH, Saudi Arabia 2020, 3 m³/d RO
 - Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2019, 70 m³/d RO
 - King Fahad Hospital, Jeddah, Saudi Arabia 2016, 36 m³/d RO
 - Construction Of Second Male Technical College, Al Hasa, Saudi Arabia 2015, 151 m³/d RO
 - Secondary Industrial Institute, Hail, Saudi Arabia 2015, 151 m³/d RO
- ### O&M Contractor
- O&M For Durrat Alriyadh Ro, Riyadh, Saudi Arabia 2022, 4,499 m³/d RO
 - Barka Projects (B2, B4 & B5), Shaqra, Saudi Arabia 2022, 499 m³/d RO
 - O&M For Durrat Alriyadh Ro, Riyadh, Saudi Arabia 2020, 4,517 m³/d RO

Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2020, 2,208 m³/d RO
 Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2020, 1,003 m³/d RO
 Dallah Hospital - Namar, Riyadh, Saudi Arabia 2020, 803 m³/d RO
 Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2020, 125 m³/d RO
 Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2020, 70 m³/d RO
 Durrat Alriyadh RO, Riyadh, Saudi Arabia 2019, 4,517 m³/d RO
 Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2019, 1,003 m³/d RO
 Qarian Villa Compound, Al Khobar, Saudi Arabia 2019, 152 m³/d RO
 Kingdom Resort Ro Plant, Riyadh, Saudi Arabia 2019, 125 m³/d RO

Plant Supplier (Desal)

Radwa Chicken Factory, Jeddah, Saudi Arabia 2021, 756 m³/d RO
 Arcs Labor Camp, Safaniah, Saudi Arabia 2021, 462 m³/d RO
 Akh Tower, Dammam, Saudi Arabia 2021, 241 m³/d RO
 Jareed Hotel, Riyadh, Saudi Arabia 2021, 100 m³/d RO
 Abu Ali Fish Hatchery, Jubail, Saudi Arabia 2021, 100 m³/d RO
 Mr. Sami Al Angari Private Residence Project, Riyadh, Saudi Arabia 2021, 55 m³/d RO
 Almurjan Medical Center, Jeddah, Saudi Arabia 2021, 7 m³/d RO
 Upgrade of RO Plant at Al Enmaa Food Factory, Jeddah, Saudi Arabia 2020, 7,239 m³/d RO
 Hawiyah-Unazyzah Gas Reservoir Storage (HUGRS), Hawiyah-Unazyzah, Saudi Arabia 2020, 907 m³/d RO
 Al Mousa General Hospital, Alhasa, Saudi Arabia 2020, 551 m³/d RO
 New Shaqra Farm Barakah # 5, Shaqra, Riyadh Province, Saudi Arabia 2020, 502 m³/d RO
 New Facilities Projects and Shelters Upgrade (NFS) at KAAB, Dahran, Saudi Arabia 2020, 501 m³/d RO
 ADC Basuan Breeder Farm, Al-Kharj, Saudi Arabia 2020, 301 m³/d RO
 Samtah General Hospital, Jizan, Saudi Arabia 2020, 250 m³/d RO
 F-15 Fleet Modernization Program, RSAF Kaab Air Warfare Center, Dhahran, Saudi Arabia 2020, 180 m³/d RO
 Skaka Solar Power Plant, Jouf, Saudi Arabia 2020, 167 m³/d RO
 Farm Breeder Project, Hail, Saudi Arabia 2020, 152 m³/d RO
 Shaqra Labor Camp, Shaqra, Riyadh Province, Saudi Arabia 2020, 120 m³/d RO
 Rehabilitation of Electromechanical Equipment of RO Plant SEC-JPP, Jizan, Saudi Arabia 2020, 120 m³/d RO
 South Ghawar TCF Camp, South Ghawar, Saudi Arabia 2020, 90 m³/d RO
 Saudi Chemical Rimah Facility, Rimah, Saudi Arabia 2020, 60 m³/d RO
 Janadriah Turf Track, Riyadh, Saudi Arabia 2020, 50 m³/d RO
 Almousa General Hospital, Al Hasa, Al-Ahsa, Saudi Arabia 2020, 25 m³/d RO
 Sihat Boys Intermediate School (SBIS), Sihat, Saudi Arabia 2020, 3 m³/d RO
 Al Nahdi Warehouse Project, Safwa, Saudi Arabia 2020, 3 m³/d RO
 Rahima Girls Elementary School (RGES), Rahimah, Saudi Arabia 2020, 3 m³/d RO
 Kingdom Resort RO Plant, Riyadh, Saudi Arabia 2019, 2,208 m³/d RO
 Dallah Hospital - Namar, Riyadh, Saudi Arabia 2019, 803 m³/d RO
 Hilton Hotel Causeway, Khobar, Saudi Arabia 2019, 505 m³/d RO
 300 Bed Central Hospital - Khamis Mushyt, Khamis Mushyt, Saudi Arabia 2019, 468 m³/d RO
 RO Plant for Ajdan Rise - Parcel A1, Khobar, Saudi Arabia 2019, 363 m³/d RO

Mekhwah Hospital RO, Mekhwah-Al Baha, Saudi Arabia 2019, 246 m³/d RO
 300 Bed Buraidah General Hospital, Buraidah, Saudi Arabia 2019, 235 m³/d RO
 Qarian Villa Compound, Khobar, Saudi Arabia 2019, 152 m³/d RO
 Farm Breeder Project, Hail, Saudi Arabia 2019, 152 m³/d RO
 Reebal Steel Factory, Dammam, Saudi Arabia 2019, 100 m³/d RO
 Hatchery Project, Hail, Saudi Arabia 2019, 49 m³/d RO
 Technical College for Girls, Jazan, Saudi Arabia 2019, 15 m³/d RO
 Jazan Economic City, Jazan, Saudi Arabia 2018, 81,655 m³/d RO
 Jazan Economic City, Jizan, Saudi Arabia 2018, 73,507 m³/d RO
 Al Rashid Farm, Dammam, Saudi Arabia 2018, 2,066 m³/d RO
 Marjan Temporary Camp Facilities - Tanajib Gas Plant, Tanajib, Saudi Arabia 2018, 975 m³/d RO
 Private Farm for Abdul Latif Al Saleh Al Shaik, Dalim, Saudi Arabia 2018, 802 m³/d RO
 Upgrade of Berkfeld RO Plant No. 3 HPP at Al Safi Dairy Plant, Al Kharj, Saudi Arabia 2018, 750 m³/d RO
 Technical Institute for Naval Studies, Dammam, Saudi Arabia 2018, 501 m³/d RO
 Al-Mohamadia Compound, Khobar, Saudi Arabia 2018, 301 m³/d RO
 Housing Project Of Hafer Al-Batin General Hospital, Nairyah, Saudi Arabia 2018, 301 m³/d RO
 Al Rashid Polystyrene New Factory, Dammam, Saudi Arabia 2018, 300 m³/d RO
 Al Falak Compound 2, Al Khobar, Saudi Arabia 2018, 300 m³/d RO
 Taazeez Tower, Dammam, Saudi Arabia 2018, 240 m³/d RO
 TVTC Housing Project, Zulfi, Saudi Arabia 2018, 151 m³/d RO
 Centro Hotel at Rotana Center, Al Khobar, Saudi Arabia 2018, 150 m³/d RO
 Water Treatment Chemical Plant, Dammam, Saudi Arabia 2018, 120 m³/d RO
 Abdullah Al-Osais Villa, Dhahran, Saudi Arabia 2018, 50 m³/d RO
 Nada Dairy Factory, Al-Hasa, Saudi Arabia 2017, 6,246 m³/d RO
 Al Fanar Labor Camp, Riyadh, Saudi Arabia 2017, 2,000 m³/d RO
 Mawten Hilton Double Tree & Garden Inn, Riyadh, Saudi Arabia 2017, 1,000 m³/d RO
 NCC Labor Camp Project, Jubail, Saudi Arabia 2017, 910 m³/d RO
 Qanbar Steetley Ready Mix Concrete Factory, Al-Hasa, Saudi Arabia 2017, 803 m³/d RO
 300 Bed Arar Central Hospital Project – MOH, Arar, Saudi Arabia 2017, 400 m³/d RO
 King Abdul Aziz Arabia Horse Center, Riyadh, Saudi Arabia 2017, 300 m³/d RO
 Prince Mohd Bin Fahd General Hospital, Qatif, Saudi Arabia 2017, 250 m³/d RO
 Three Bees Building, Khobar, Saudi Arabia 2017, 220 m³/d RO
 Equestrian Club, Riyadh, Saudi Arabia 2017, 200 m³/d RO
 Montagate Factory, Riyadh, Saudi Arabia 2017, 121 m³/d RO
 SRD Hotel, Riyadh, Saudi Arabia 2017, 80 m³/d RO
 Champion Technologies New Factory, Dammam, Saudi Arabia 2017, 70 m³/d RO
 King Abdul Aziz Bridge Port, Dammam, Saudi Arabia 2017, 51 m³/d RO
 Saudi Food & Drug Authority-Riyadh, Riyadh, Saudi Arabia 2017, 50 m³/d RO
 Anfas Medical Care Hospital, Riyadh, Saudi Arabia 2017, 30 m³/d RO
 Sheikh Beach House, Khobar, Saudi Arabia 2016, 1,000 m³/d RO
 Dallah Healthcare Complex - Namar, Riyadh, Saudi Arabia 2016, 802 m³/d RO
 KFU (King Faisal University) Technical Hospital, Al-Hasa, Saudi Arabia 2016, 725 m³/d RO
 Jazan Site Camp 1, Jazan, Saudi Arabia 2016, 700 m³/d RO
 Jazan IGCC Site, Jazan, Saudi Arabia 2016, 700 m³/d RO

Al Darb Hospital, Jazan, Saudi Arabia 2016, 650 m³/d RO
 Jazan Site Camp, Jazan, Saudi Arabia 2016, 350 m³/d RO
 Jazan IGCC Site, Jazan, Saudi Arabia 2016, 350 m³/d RO
 Rijal Almaa Hospital, Rijal Almaa - Abha, Saudi Arabia 2016, 330 m³/d RO
 Zahran Al Janoub Hospital, Zahran Al Janoub, Saudi Arabia 2016, 330 m³/d RO
 Centro Hotel at Rotana Center, Khobar, Saudi Arabia 2016, 316 m³/d RO
 Beach Sea Complex, Khobar, Saudi Arabia 2016, 300 m³/d RO
 King Fahd University For Petroleum & Minerals (KFUPM), Khobar, Saudi Arabia 2016, 257 m³/d RO
 mam Abdulrahman Bin Faisal Hospital for National Guard, Khobar, Saudi Arabia 2016, 200 m³/d RO
 Novotel Hotel, Jazan, Saudi Arabia 2016, 152 m³/d RO
 Al Turki Residential Project, Khobar, Saudi Arabia 2016, 50 m³/d RO
 King Fahad Hospital, Jeddah, Saudi Arabia 2016, 30 m³/d RO
 Malawi Mosque, Makkah, Saudi Arabia 2016, 25 m³/d RO
 Jadeedah Araar Border Port, Arar, Saudi Arabia 2015, 6,187 m³/d RO
 Saudi Ceramics Company, Riyadh, Saudi Arabia 2016, 150 m³/d RO
 Centro Olaya Hotel by Rotana , Riyadh, Saudi Arabia 2016, 129 m³/d RO
 Saudi Catering Company, Riyadh, Saudi Arabia 2016, 100 m³/d RO
 Al Safi Dairy, Al Kharj, Saudi Arabia 2015, 3,006 m³/d RO
 Jadeedah Araar Border Port, Arar, Saudi Arabia 2015, 2,880 m³/d RO
 Takween Plastic Factory, AlHasa, Saudi Arabia 2015, 1,514 m³/d RO
 Ar Ruqai Border Port, Ar Ruqai, Saudi Arabia 2015, 1,060 m³/d RO
 Housing Units for Armed Forces - Phase 2, Dhahran, Saudi Arabia 2015, 1,041 m³/d RO
 Housing Units for Armed Forces - Phase 2, Al Hasa, Saudi Arabia 2015, 825 m³/d RO
 RRO Plant for MPD Camp, Manifa, Saudi Arabia 2015, 549 m³/d RO
 Al Qunfudhah General Hospital, Al Qunfudhah, Saudi Arabia 2015, 454 m³/d RO
 Al Enmaa Food Company, Jeddah, Saudi Arabia 2015, 401 m³/d RO
 Athieb Village, Khobar, Saudi Arabia 2015, 303 m³/d RO
 Sinsina Labor Camp, Jubail, Saudi Arabia 2015, 301 m³/d RO
 Holiday Inn Half Moon, Khobar, Saudi Arabia 2015, 251 m³/d RO
 Irish Dairy Cheese Factory, Al Kharj, Saudi Arabia 2015, 250 m³/d RO
 Medical Center - Armed Forces Hospital, Jazan, Saudi Arabia 2015, 201 m³/d RO
 Abdulah Fouad Family Complex, Dammam, Saudi Arabia 2015, 201 m³/d RO
 Construction Of Second Male Technical College, Al-Hasa, Saudi Arabia 2015, 151 m³/d RO
 Secondary Industrial Institute, Hail, Saudi Arabia 2015, 151 m³/d RO
 Madinah Apartment Project - Al Rashid Mall, Madinah, Saudi Arabia 2015, 140 m³/d RO
 Al Rajhi Bank Head Quarter, Riyadh, Saudi Arabia 2015, 39 m³/d RO
 Nasser S Al Hajri Villa, Khobar, Saudi Arabia 2015, 15 m³/d RO
 Jazan Integrated Gasification combined Cycle - Utilities & Common Area Pkg#5, Jazan, Saudi Arabia 2014, 66,688 m³/d RO
 Jazan Integrated Gasification combined Cycle - Utilities & Common Area Pkg#5, Jazan, Saudi Arabia 2014, 36,000 m³/d RO
 Jazan Integrated Gasification combined Cycle - Utilities & Common Area Pkg#5, Jazan, Saudi Arabia 2014, 18,019 m³/d RO
 Jazan Integrated Gasification combined Cycle - Utilities & Common Area Pkg#5, Jazan, Saudi Arabia 2014, 16,807 m³/d RO

Jazan Integrated Gasification combined Cycle - Utilities & Common Area Pkg#5, Jazan, Saudi Arabia 2014, 13,200 m³/d RO
 eddah South Power Project (JSPP), Jeddah, Saudi Arabia 2014, 7,920 m³/d RO
 Ras Tanura Refinery - Aramco, Rastannura, Saudi Arabia 2014, 2,000 m³/d RO
 Wasit Gas Plant, Khursaniyah, Saudi Arabia 2014, 2,000 m³/d RO
 Prince Mohammad Bin Fahad University Staff Housing Project, Khobar, Saudi Arabia 2014, 1,758 m³/d RO
 Nesma Labor Camp, Jazan, Saudi Arabia 2014, 1,325 m³/d RO
 Jazan Integrated Gasification combined Cycle - Utilities & Common Area Pkg#5, Jazan, Saudi Arabia 2014, 1,211 m³/d RO
 iyadh Power Plant (PP12), Riyadh, Saudi Arabia 2014, 1,200 m³/d RO
 JTamimi Labor camp, Hawiyah, Saudi Arabia 2014, 1,000 m³/d RO
 300 Bed Hospital - MOH, Sakakah, Saudi Arabia 2014, 470 m³/d RO
 Renovation of King Khalid Hospital, Al Kharj, Saudi Arabia 2014, 450 m³/d RO
 Shooting Range Project (SRP Phase III) - Officers Housing, Abha, Saudi Arabia 2014, 401 m³/d RO
 Al Fozan Beach House, Khobar, Saudi Arabia 2014, 200 m³/d RO
 Qassim University Hospital, Al Qassim, Saudi Arabia 2014, 110 m³/d RO
 Rafha Medical Tower 100 Beds, Rafha, Saudi Arabia 2014, 100 m³/d RO
 Princess Nora University - Hospital Area Building , Riyadh, Saudi Arabia 2014, 100 m³/d RO
 50 Bed Al Mahani Hospital, Taif, Saudi Arabia 2014, 100 m³/d RO
 Al Mana General Hospital - Parking Building, Dammam, Saudi Arabia 2014, 81 m³/d RO
 Armed Forces Hospital - Kidney Dialysis Building, Wadi Al Dawasir, Saudi Arabia 2014, 72 m³/d RO
 Princess Nora University - Research Area Building, Riyadh, Saudi Arabia 2014, 64 m³/d RO
 Princess Nora University - Research Area Building 1, Riyadh, Saudi Arabia 2014, 64 m³/d RO
 Princess Nora University - Research Area Building, Riyadh, Saudi Arabia 2014, 60 m³/d RO
 Princess Nora University - Hospital Area Building, Riyadh, Saudi Arabia 2014, 60 m³/d RO
 rincess Nora University - Research Area Building, Riyadh, Saudi Arabia 2014, 60 m³/d RO
 Al Fozan Villa, Khobar, Saudi Arabia 2014, 50 m³/d RO
 Kabbani Sweets Factory, Dammam, Saudi Arabia 2014, 20 m³/d RO
 Kabbani Sweets Factory, Jeddah, Saudi Arabia 2014, 20 m³/d RO
 King Abdullah University for Science & Technology (KAUST) Research Park, Jeddah, Saudi Arabia 2013, 10,000 m³/d RO
 Shaybah NGL Recovery & Utilities Package 2 - (WTP-RO), Shaybah, Saudi Arabia 2013, 3,408 m³/d RO
 Durrat Al Riyadh Touristic & Residential City, Riyadh, Saudi Arabia 2013, 2,000 m³/d RO
 Al Marai Co. Central Processing Plant, Al Kharj, Saudi Arabia 2013, 1,575 m³/d RO
 Sadara Projects Chemical I, Jubail, Saudi Arabia 2013, 1,500 m³/d RO
 Petrokemya ABS Project, Al Kharj, Saudi Arabia 2013, 1,300 m³/d RO
 Kingdom of Resort Expansion Work, Riyadh, Saudi Arabia 2013, 1,000 m³/d RO
 Al Marai Co. CPP - Water Reuse Project, Al Kharj, Saudi Arabia 2012, 3,000 m³/d RO
 Habshan Sulphur Granulation Plant Project, Habshan- Abu Dhabi, United Arab Emirates 2012, 1,900 m³/d RO
 500 Beds Jeddah Hospital, Jeddah, Saudi Arabia 2012, 1,000 m³/d RO

Tanjib Sea Water RO Plant Expansion, Manifa, Saudi Arabia 2011, 27,350 m³/d RO

Durrat Al Bahrain Resort, Bahrain 2011, 4,000 m³/d RO

King Abdullah Park, Riyadh, Saudi Arabia 2011, 2,000 m³/d RO

Ras Al Khair Power Plant, Ras As Zawr, Saudi Arabia 2011, 1,200 m³/d RO

Al Kawthar Gas Processing Plant, Al Kawthar, Oman 2010, 500 m³/d RO

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SELECTED REFERENCES

Plant Supplier

China 2016, 3,100 m³/d ED

Israel 2016, 1,000 m³/d ED

Japan 2016, 6 m³/d ED

Japan 2015, 160 m³/d ED

Japan 2015, 40 m³/d ED

Japan 2014, 30 m³/d ED

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SELECTED REFERENCES

Developer

Quintero, Chile 2018, 86,400 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Al Amerat WWTP, Muscat, Oman 2014, 18,000 m³/d MBR

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EPC Contractor

Al Heet/Al Kharj Road WWTP - Phase 3, Riyadh, Saudi Arabia 2012, 200,000 m³/d Other / Unknown

Al Kafaah LLC



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SELECTED REFERENCES

Plant Supplier

Jawhrat Project, Kuwait City, Kuwait, 2,082 m³/d RO

Ajman Palace Hotel, Ajman, United Arab Emirates, 1,514 m³/d UV

Camp Accommodation Facility – Ruweis Refinery, Ruweis, United Arab Emirates, 1,363 m³/d RO

Commission for Public Infrastructure, Port Louis, Mauritius, 1,003 m³/d RO

Yas Mall, Abu Dhabi, Yas Island, United Arab Emirates, 757 m³/d Other / Unknown

Safaniya / Khafji Crude Desalting Facility, Dharan, Saudi Arabia, 416 m³/d RO

Al Yasat Island, Abu Dhabi, United Arab Emirates, 379 m³/d RO

Al Qarnain Island, Abu Dhabi, United Arab Emirates, 303 m³/d RO

US Embassy Complex, Kabul, Afghanistan, 246 m³/d RO

Private Farm & Greenhouse, Al Ain, United Arab Emirates, 227 m³/d RO

Sweiha Agriculture, Abu Dhabi, United Arab Emirates, 189 m³/d RO

Fujairah Group, Fujairah, Abu Hail, United Arab Emirates, 132 m³/d RO

Ras Al Khaimah Agriculture, Ras Al Khaimah, United Arab Emirates, 95 m³/d RO

Oil Rig Al Khobar, Al Khobar, Saudi Arabia, 95 m³/d RO

Angola Housing Project, Luanda, Angola, 76 m³/d RO

Al Saeedi Private Farm, Abu Dhabi, Khatem, United Arab Emirates, 76 m³/d RO

Al Rashid Farm, Sharjah, United Arab Emirates, 76 m³/d RO

Al Qubaisi Farm, Abu Dhabi, Al Khazna, United Arab Emirates, 76 m³/d RO

China Embassy Complex, Mogadishu, Somalia, 45 m³/d RO

The Lakes - Private Villa, Dubai, Lakes Jumeirah, United Arab Emirates, 38 m³/d RO

Private Farm, Sharjah, United Arab Emirates, 38 m³/d RO

Sheikh Suhail Bin Maktoum Al Maktoum - Majlis, Dubai, Rashidiya, United Arab Emirates, 19 m³/d RO

Somalia Camp, Bosaso, Somalia, 19 m³/d RO
 Cargo Vessel SN63, Sharjah, United Arab Emirates, 5 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Dammam 2nd Industrial City, Saudi Arabia 2013, 15,000 m³/d RO

Alfa Laval Process Technology



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SELECTED REFERENCES

Equipment Supplier

Sundrop Farms Solar Desalination, Port Paterson, Australia 2016, 1,000 m³/d MED

Hirgigo Power Plant, Massawa, Eritrea 2016, 528 m³/d MED

Genkai Nuclear Power Plant, Genkai, Japan 2012, 800 m³/d VC

Electrawinds, Oostende, Belgium 2012, 650 m³/d MED

Baja California Sur, Mexico 2012, 240 m³/d VC

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Backed by deep water sector knowledge and experience, Almar Water Solutions has developed its business strategy with water sector understanding and expertise through project finance contracts, and by joining promising companies and strategic partnerships worldwide.

Divided into three main business lines—Asset Management, Services, and Industry and Technology—Almar Water Solutions has a portfolio of water solutions. Innovation, renewable energies, and green transition are at the core of our business.

Only six years after its birth, Almar Water Solutions is a globally respected, successful, and diversified business with a global presence, with operations in Europe, the Middle East, Latin America, Africa, and Asia-Pacific. We cover all water management services for international utilities and industrial clients through regional platforms. Almar Water Solutions participates directly in regional markets through the following companies: Ridgewood in Egypt, Almar Water Services Latam and Aguas San Pedro in Chile, Datakorum in Spain, and Obor Infrastructure in Singapore.

We continuously look for new water-related businesses to contribute to a more sustainable future. In addition, we invest in technology and resources that help create more resilient businesses and societies, in line with the Sustainable Development Goals of Agenda 2030. Almar Water Solutions also looks to the future, searching for the latest trends. In the short term, we will provide services in areas such as water to energy, renewable energy, and green hydrogen.

SELECTED REFERENCES

Developer and O&M Contractor

Shuqaiq 3 Desalination Plant, Shuqaiq, Saudi Arabia 2019, 450,000 m³/d RO

O&M Contractor

Goldfields, Copiapó, Chile 2023, 650 m³/d Other / Unknown

Yamana, Antofagasta, Chile 2023, 365 m³/d Other / Unknown

Codelco DMH, Calama, Chile 2022, 86 m³/d Other / Unknown
 Salares Norte, Antofagasta, Chile 2020, 1,000 m³/d Other / Unknown

Taqueral, Santiago, Chile 2020, 220 m³/d Other / Unknown

Mantos Blancos Mining, Antofagasta, Chile 2020, RO

Watts, Linares, Chile 2019, 2,050 m³/d Other / Unknown
 Codelco Chuquicamata, Chile 2019, 300 m³/d Other / Unknown
 Codelco Andina, Los Andes, Chile 2016, 723 m³/d Other / Unknown
 Codelco Andina, Los Andes, Chile 2016, 723 m³/d Other / Unknown
 Teniente, Rancagua, Chile 2014, 2,965 m³/d Other / Unknown
 Ariztia Arica, Arica, Chile 2014, 2,400 m³/d Other / Unknown
 BASF, Concón, Chile 2014, 150 m³/d Other / Unknown
 Antucoya Mining, Antofagasta, Chile 2012, 2,930 m³/d RO
 Novaustral, Punta Arenas, Chile 2012, 840 m³/d Other / Unknown
 Centinela Mining, Antofagasta, Chile 2011, 2,765 m³/d RO
 Sal Punta Lobos SPL, Iquique, Chile 2008, 33 m³/d Other / Unknown
 Aeropuerto Nuevo Pudahuel, Santiago, Chile 2001, 3,650 m³/d RO
 Ridgewood Desalination Plants, Egypt, 112,590 m³/d RO

Plant Owner

Muharrag Sewage Treatment Plant, Muharrag, Bahrain 2011, 100,000 m³/d Tertiary treatment

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EPC Contractor

Southern Tunisia, Tunisia 2012, 36,200 m³/d RO
 Kebili, Tunisia 2012, 6,000 m³/d RO
 Kebili, Tunisia 2012, 4,000 m³/d RO

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EPC Contractor

Exportquilsa, Duran, Ecuador 2023, 600 m³/d RO
 Santa Priscila San Pablo, Santa Elena, Ecuador 2023, 300 m³/d RO
 Aguas Machala, Machala, Ecuador 2022, 2,160 m³/d RO
 Smi Duran 2022, 860 m³/d RO
 Gisis, Duran, Ecuador 2022, 650 m³/d RO
 Biogemar, Santa Elena, Ecuador 2022, 500 m³/d RO
 Logist Ferdera, Duran, Ecuador 2022, 400 m³/d RO
 Santa Priscila, Chanduy, Ecuador 2022, 300 m³/d RO
 Haid Feed, Duran, Ecuador 2022, 280 m³/d RO
 Pecksambientes, Quito, Ecuador 2022, 240 m³/d RO
 Refristore, Duran, Ecuador 2022, 200 m³/d RO
 Produmar, Duran, Ecuador 2022, 100 m³/d RO
 La Vienesa, Duran, Ecuador 2022, 50 m³/d RO
 Durancity Bromelia, Duran, Ecuador 2021, 650 m³/d RO
 Durancity Amaranto, Duran, Ecuador 2021, 650 m³/d RO
 Conservas Isabel Ecuatoriana, Manta, Ecuador 2021, 300 m³/d RO
 Santa Priscila, Mar Blavo Santa Elenna, Ecuador 2021, 300 m³/d RO
 Ecuahielo, Duran, Ecuador 2021, 200 m³/d RO
 Gisis, Duran, Ecuador 2020, 650 m³/d RO
 Falab, Santa Elena, Ecuador 2020, 500 m³/d RO
 Biogemar, Santa Elena, Ecuador 2020, 350 m³/d RO
 La Vienesa, Duran, Ecuador 2019, 50 m³/d RO
 Liris, Bucay, Ecuador 2019, 40 m³/d RO
 Medicorsa, Quito, Ecuador 2019, 10 m³/d RO
 Exportquilsa, Duran, Ecuador 2018, 300 m³/d RO
 Logist Ferdera, Duran, Ecuador 2018, 240 m³/d RO

Anguil Environmental Systems



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Bench Study

Newark, Ohio, United States 2021, 50,400 gpd Other / Unknown
 Mundelein, Illinois, United States 2021, 28,800 gpd Other / Unknown
 Menlo, Georgia, United States 2020, 288,000 gpd Other / Unknown
 Aurora, Illinois, United States 2019, 5,000.0 gpd Other / Unknown
 Coon Rapids, Minnesota, United States 2019, 200.0 gpd

Equipment Supplier

Monroe, North Carolina, United States 2019, 30,000.0 gpd Other / Unknown
 Pilot, Aurora, Illinois, United States 2019, 2,800.0 gpd Other / Unknown
 West Chicago, Illinois, United States 2018, 57,600.0 gpd RO

Rental Equipment Supplier

Leonardo, New Jersey, United States 2019, 20,000.0 gpd Other / Unknown

Equipment Supplier

Falab S.A., Santa Elena, Ecuador 2019, 500 m³/d RO
 Empacreci S.A., Duran, Guayas, Ecuador 2019, 500 m³/d RO
 Biogemar S.A., Santa Elena, Ecuador 2019, 480 m³/d Other / Unknown
 Biogemar S.A., Santa Elena, Ecuador 2019, 360 m³/d RO
 Macrobio S.A., Santa Elena, Ecuador 2019, 360 m³/d Other / Unknown
 Ecuahielo S.A., Duran, Guayas, Ecuador 2019, 200 m³/d RO
 Tesalia, Milagro, Guayas, Ecuador 2019, 200 m³/d RO
 Galapesca S.A., Guayaquil, Guayas, Ecuador 2019, 150 m³/d RO
 La Fabril S.A., Manta, Manabí, Ecuador 2019, 60 m³/d RO
 Agua Oro, Machala, El Oro, Ecuador 2019, 60 m³/d RO
 Produpes, Manta, Manabí, Ecuador 2019, 36 m³/d RO
 Nutreco, Duran, Guayas, Ecuador 2018, 1,300 m³/d RO

O&M Contractor

Arca Continental, Guayaquil, Ecuador 2018, 708 m³/d RO
 Duran City, Ecuador 2018, 650 m³/d RO
 GISIS, Duran, Ecuador 2018, 650 m³/d RO
 Tesalia, Milagro, Ecuador 2018, 333 m³/d RO
 Logistic Ferdera, Duran, Ecuador 2018, 250 m³/d RO
 Export Quilsa, Duran, Ecuador 2018, 250 m³/d RO
 Arca Continental, Guayaquil, Ecuador 2017, 654 m³/d RO
 Arca Continental, Santo Domingo, Ecuador 2017, 436 m³/d RO
 Logistic Ferdera, Duran, Ecuador 2017, 250 m³/d RO
 Ginsberg Pharma, Quito, Ecuador 2017, 120 m³/d RO
 Mall Del Pacifico, Manta, Ecuador 2017, 80 m³/d RO
 Mall Del Pacifico, Manta, Ecuador 2017, RO
 Logistic Ferrera, Duran, Ecuador 2017, RO
 Coca Cola, Santo Domingo, Ecuador 2017, RO
 Liris, Guayaquil, Ecuador 2017, Other / Unknown
 Aqua Sani, Manta, Ecuador 2017, RO
 Villa Hermosa, Duran, Ecuador 2016, 400 m³/d RO
 Propemar, Manta, Ecuador 2016, 100 m³/d RO
 Propemar, Duran, Ecuador 2016, 100 m³/d RO
 Agua Lay, Manta, Ecuador 2016, 36 m³/d RO
 Beautik, Duran, Ecuador 2016, 36 m³/d RO
 Agua Activa, Chone, Ecuador 2016, 24 m³/d RO
 Fundacion Buen Samaritano, Portoviejo, Ecuador 2016, 24 m³/d RO
 Agua Lay, Manta, Ecuador 2016, 24 m³/d RO
 Quimica Ariston Pharma, Quito, Ecuador 2016, 12 m³/d RO
 Municipio Santa Ana, Ecuador 2016, 12 m³/d RO
 Famagua, Pedro Carbo, Ecuador 2016, 12 m³/d RO
 Ramon Dueñas, Chone, Ecuador 2016, 12 m³/d RO
 Ginsberg, Quito, Ecuador 2016, EDI
 Ginsberg, Quito, Ecuador 2016, RO
 Ariston, Quito, Ecuador 2016, RO
 Ecuador, Duran 2015, 200 m³/d RO
 Ecuador, Daule 2015, 170 m³/d RO
 Esmeraldas, Ecuador 2015, 72 m³/d RO
 Ciauto Car Assembly, Ambato, Ecuador 2015, 60 m³/d RO
 Electrocables, Guayaquil, Ecuador 2015, 50 m³/d RO
 Ecuador, Machala 2015, 36 m³/d RO
 Andelas, Ambato, Ecuador 2015, 24 m³/d RO
 Duran City, Ecuador 2014, 630 m³/d RO

Santa Elena, Puerto Cayo, Ecuador 2014, 200 m³/d RO
 Duralum, Duran, Ecuador 2014, 87 m³/d RO
 Ecuador, Duran 2014, 72 m³/d RO
 La Fabril, Manta, Ecuador 2014, 72 m³/d RO
 Scalpy Cosmetics, Duran, Ecuador 2014, 48 m³/d RO
 Salinas, Ecuador 2014, 36 m³/d RO
 Quito, Ecuador 2014, 36 m³/d RO
 Agua Aqua, Manta, Chone, Ecuador 2014, 24 m³/d RO
 Agricola El Naranjo S.A., Canoa, Ecuador 2014, 15 m³/d RO
 Montecristi Golf Club, Montecristi, Ecuador 2014, 12 m³/d RO
 Gondi S.A., Manta, Ecuador 2013, 200 m³/d RO
 La Fabril S.A., Manta, Ecuador 2013, 120 m³/d RO
 Agua Bonty, Yaguachi, Ecuador 2013, 72 m³/d RO
 Agroaves, Duran, Pedernales, Ecuador 2013, 48 m³/d RO
 Agua Tropical, Manta, Ambato, Ecuador 2013, 24 m³/d RO
 EuroFish S.A., Manta, Ecuador 2012, 600 m³/d RO
 Galapesca S.A., Guayaquil, Ecuador 2012, 600 m³/d RO
 OceanFish S.A., Manta, Ecuador 2012, 200 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Mar de Alborán, Almería, Spain 2021, 54,000 m³/d RO
 Empalme-Guaymas SWRO desalination plant, Sonora, Mexico 2018, 18,000 m³/d RO
 El Alamein, Egypt 2016, 150,000.0 m³/d RO
 Cap Djinet, Algeria, 100,000 m³/d RO
 El Alamein , Egypt 2016, 150,000.0 m³/d RO
 Djerba, Tunisia 2014, 50,000 m³/d RO
 Sierra Gorda (Extendable to 12,000 m³/d), II Region, Chile 2014, 9,000 m³/d RO
 Roque Prieto, Gran Canaria, Spain, 5,000 m³/d RO
 Tordera I, Girona, Spain, 28,800 m³/d RO
 La Caleta, Tenerife, Spain, 10,000 m³/d RO
 Bajo Almanzora, Almería, Spain, 60,000 m³/d RO
 SA Pobra, Mallorca, Spain, 3,000 m³/d RO
 Abaran, Murcia, Spain, 1,080 m³/d RO
 Tarragona I, Spain, 3,550 m³/d RO
 Haria, Lanzarote, Spain, 200 m³/d RO
 Mostaganem, Algeria, 200,000 m³/d RO
 Pedro Muñoz, Ciudad Real, Spain, 1,600 m³/d NF
 Repsol Quimica, Tarragona, Spain, 1,440 m³/d RO
 San Antonio, Ibiza, Spain, 17,500 m³/d RO
 Corralejo, Fuerteventura, Spain, 1,500 m³/d RO
 Grand Tarajal, Fuerteventura, Spain, 1,500 m³/d RO
 Gando, Gran Canaria, Spain, 1,000 m³/d RO

Arrecife, Lanzarote, Spain, 5,000 m³/d RO
 Fuerteventura III, Canary Islands, Spain, 4,000 m³/d RO
 Racons-Denia, Alicante, Spain, 16,200 m³/d RO
 Algodor, Toledo, Spain, 62,208 m³/d RO
 Tordera II, Blanes, Spain, 62,000 m³/d RO
 Candelaria, III Region, Chile, 45,000 m³/d RO
 Adeje-Arona, Tenerife, Spain, 22,000 m³/d RO
 Campo de Calatrava, Spain, 19,440 m³/d RO
 San Antonio: Extension & Upgrade, Spain, 18,000 m³/d RO
 Santa Eulalia, Ibiza, Spain, 15,000 m³/d RO
 Ibiza, Spain, 12,500 m³/d RO
 Janubio, Lanzarote, Spain, 10,500 m³/d RO
 Huechun, Chile, 8,640 m³/d NF
 Campo de Calatrava , Spain, 19,440 m³/d RO
 La Solana, Ciudad Real, Spain, 7,152 m³/d RO
 CEPSA, Tenerife, Spain, 2,880 m³/d RO
 La Ranilla, Sevilla, Spain, 2,000 m³/d RO
 Llanos del Caudillo, Ciudad Real, Spain, 4,08 m³/d RO
 La Solana , Ciudad Real, Spain, 7,152 m³/d RO

Plant Supplier (Reuse)

Quart de Benager Extention WWTP Tertiary Treatment, Valencia, Spain, 31,129 m³/d Tertiary treatment
 La China WWTP Tertiary Treatment, Madrid, Spain, 25,498 m³/d Tertiary treatment
 Alcobendas Extention WWTP Tertiary Treatment, Alcobendas, Spain, 16,372 m³/d Tertiary treatment
 Baix Llobregat WWTP Tertiary Treatment, Spain, 14,400 m³/d Tertiary treatment
 Orihuela-Molins WWTP Tertiary Treatment, Orihuela, Spain, 12,960 m³/d Tertiary treatment
 Islas Canarias WWTP Tertiary Treatment, Canary Islands, Spain, 9,900 m³/d Tertiary treatment
 Bahía de Alcudia WWTP Tertiary Treatment, Mallorca, Spain, 8,500 m³/d Tertiary treatment
 Cala d'Or WWTP Tertiary Treatment, Mallorca, Spain, 4,320 m³/d Tertiary treatment

O&M Contractor

King Abdulaziz International Airport Desalination Plant, Jeddah, Saudi Arabia 2020, 42,500 m³/d RO

Coca Cola Samarkant, Samarkant, Uzbekistan 2023, 4,320 m³/d RO
 Akij Food, Habigonj, Bangladesh 2023, 3,696 m³/d RO
 Oman Sugar Refinery, Muscat, Oman 2023, 3,600 m³/d RO
 Coca Cola Shymkent, Shymkent, Kazakhstan 2023, 3,600 m³/d RO
 Coca Cola Isparta, Isparta, Turkey 2023, 3,600 m³/d RO
 Kipas Paper, Kahramanmaraş, Turkey 2023, 2,400 m³/d RO
 Zaki Juice, Baghdad, Iraq 2023, 2,160 m³/d RO
 Tezcanlar Acid, Adana, Turkey 2023, 1,920 m³/d RO
 Coca Cola Al Ahlia Gulf Line, Al Ain, United Arab Emirates 2023, 1,776 m³/d RO
 Akis Food, Dhamrai, Bangladesh 2023, 1,728 m³/d RO
 Lesfam Food, Ghana 2023, 1,440 m³/d RO
 Diler Steel, Kocaeli, Turkey 2023, 1,320 m³/d RO
 Liberty Investment, Sierra Leone 2023, 960 m³/d RO
 Baghdad Soft Drinks, Baghdad, Iraq 2023, 720 m³/d RO
 Muataz Kareem, Baghdad, Iraq 2023, 600 m³/d RO
 The One 2, Bodrum, Turkey 2023, 450 m³/d RO
 Rixos Bodrum, Bodrum, Turkey 2023, 408 m³/d RO
 Oyak, Hatay, Turkey 2023, 360 m³/d RO
 Congo Act, DRC 2023, 300 m³/d RO
 Besa Hilton Hotel, Bodrum, Turkey 2023, 280 m³/d RO
 Sakarya Paper, Sakarya, Turkey 2023, 240 m³/d RO
 Thor Hotel, Bodrum, Turkey 2023, 200 m³/d RO
 Kipas Paper, Söke, Turkey 2022, 17,117 m³/d RO
 Habaş, Izmir, Turkey 2022, 11,520 m³/d RO
 Aqua Unique, Lierskogen, Norway 2022, 5,760 m³/d
 PBL Site Karachi, Karachi, Pakistan 2022, 4,824 m³/d RO
 GWE - Nigeria, Nigeria 2022, 4,080 m³/d
 Erbil Combined Cycle Power Plant, Erbil, Iraq 2022, 3,840 m³/d RO
 Inyange Rwanda, Kigali, Rwanda 2022, 3,600 m³/d
 Kipa Paper Mill, Kahramanmaraş , Turkey 2022, 2,976 m³/d RO
 Kestel Polymer, Bursa, Turkey 2022, 2,904 m³/d RO
 NBC Gujranwala, Gujranwala, Pakistan 2022, 2,698 m³/d RO
 GEBKIM, Kocaeli, Turkey 2022, 2,640 m³/d
 CocaCola Uzbekistan, Tashkent, Uzbekistan 2022, 2,592 m³/d RO
 CocaCola Bangladesh, Dhaka, Bangladesh 2022, 2,400 m³/d
 AlKaram Textile, Karachi, Pakistan 2022, 2,280 m³/d RO
 ODAS Uzbekistan, Uzbekistan 2022, 1,920 m³/d RO
 Gemkom, Adana, Turkey 2022, 1,800 m³/d RO
 Akdeniz Chemson, Izmir, Turkey 2022, 1,800 m³/d
 Gulbahar Group, Karaçi, Pakistan 2022, 1,680 m³/d RO
 CocaCola Lahore, Lahore, Pakistan 2022, 1,632 m³/d Other / Unknown
 Argo Brewery, Tiflis, Georgia 2022, 1,560 m³/d RO
 Al Hadi Beverages, Al Hadi, United Arab Emirates 2022, 1,440 m³/d RO
 Eczacibasi - Ipek Paper Mill, Istanbul, Turkey 2022, 1,440 m³/d RO
 Gurteks Fiber, Gaziantep, Turkey 2022, 1,224 m³/d RO
 FORD Otosan, Kocaeli, Turkey 2022, 1,200 m³/d RO
 Kivanc Textile, Adana, Turkey 2022, 1,080 m³/d RO
 Aksa Group Isis Otel, Mugla, Turkey 2022, 1,008 m³/d RO
 CocaCola Azerbaijan, Baku, Azerbaijan 2022, 960 m³/d RO
 Interloop FSD, Lahore, Pakistan 2022, 960 m³/d RO
 Ankutsan, Adana, Turkey 2022, 480 m³/d RO
 Akkuyu Nuclear Power Plant Mobile, Mersin, Turkey 2022, 480 m³/d RO
 Iffco, Ghana 2022, 360 m³/d RO
 Koruma Klor, Hatay, Turkey 2022, 312 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Bak Bayburt, Bayburt, Turkey 2023, 14,928 m³/d RO
 Sorfert, Algeria 2023, 5,328 m³/d
 Eren Energy, Zonguldak, Turkey 2023, 4,900 m³/d RO
 Rb Karesi, Turkey 2023, 4,800 m³/d RO

- The One, Bodrum, Turkey 2022, 300 m³/d RO
 Izocam, Adana, Turkey 2022, 211 m³/d RO
 Id Bodrum, Bodrum, Turkey 2022, 180 m³/d RO
 Bodrum Ada, Bodrum, Turkey 2022, 30 m³/d RO
 Maven, Jakarta, Indonesia 2021, 27,120 m³/d RO
 TOSAB, Bursa, Turkey 2021, 17,004 m³/d
 Hyrec Maven 2, Jakarta, Indonesia 2021, 15,000 m³/d Other / Unknown
 Akkuyu - Nuclear Power Plant, Mersin, Turkey 2021, 9,900 m³/d RO
 Kivanc Paper Mill, Adana, Turkey 2021, 8,900 m³/d RO
 Global Water Energy, Nigeria 2021, 4,872 m³/d
 Limak Kuwait Airport, Sharg, Kuwait 2021, 4,032 m³/d
 Seamax, Duhok, Iraq 2021, 3,840 m³/d
 Atlas Denim, Adana, Turkey 2021, 3,840 m³/d
 Sembol Construction - Aktau Hotel, Istanbul, Turkey 2021, 3,000 m³/d RO
 CocaCola Islamabad, Islamabad, Pakistan 2021, 3,000 m³/d RO
 Mersin Organized Industrial Site, Mersin, Turkey 2021, 2,760 m³/d
 Starwood, Bursa, Turkey 2021, 2,496 m³/d RO
 Sisecam Lukavac, Lukavac, Bosnia and Herzegovina 2021, 2,400 m³/d RO
 Akinal Sentetik, Gaziantep, Turkey 2021, 2,400 m³/d RO
 CocaCola Uzbekistan, Tashkent, Uzbekistan 2021, 2,040 m³/d RO
 Kardemir, Karabük, Turkey 2021, 1,920 m³/d RO
 Mesa Golkoy, Mugla, Turkey 2021, 1,780 m³/d RO
 Mesa Golkoy, Mugla, Turkey 2021, 1,780 m³/d RO
 TEZKIM, Adana, Turkey 2021, 1,728 m³/d RO
 Sukkur Beverages, Sindh, Pakistan 2021, 1,440 m³/d RO
 Cahan General Trading, Dubai, United Arab Emirates 2021, 1,320 m³/d RO
 Style Textile Pakistan, Lahore, Pakistan 2021, 1,200 m³/d RO
 Fazal Rehman Fabrics, Multan, Pakistan 2021, 1,200 m³/d RO
 Assan Foods, Balikesir, Turkey 2021, 1,200 m³/d RO
 Feroze1888, Karachi, Pakistan 2021, 1,080 m³/d
 Mecon Akkuyu NPP, Mersin, Turkey 2021, 1,080 m³/d RO
 Akkuyu Siphili Camp, Mersin, Turkey 2021, 1,008 m³/d RO
 AIKbous Yemen, AL Hudaydah, Yemen 2021, 960 m³/d RO
 Sarıkız, Manisa, Turkey 2021, 960 m³/d RO
 IPS Libya, Libya 2021, 840 m³/d RO
 Mecon Akkuyu NPP, Mersin, Turkey 2021, 504 m³/d RO
 Mecon Akkuyu NPP, Mersin, Turkey 2021, 480 m³/d MBR
 Sea Water Plant, Indonesia 2020, 21,150 m³/d RO
 Desalination Plant for Third Phase Expansion of Southern Gaza Desalination Plant (SGDP), Palestine 2020, 16,000 m³/d RO
 Sembol Construction, Kazakhstan 2020, 4,000 m³/d RO
 Soda Sanayi, Turkey 2020, 3,000 m³/d RO
 Sorfert Chemical, Algeria 2020, 2,400 m³/d RO
 Kaplankaya Hotel, Turkey 2020, 1,140 m³/d RO
 Abu Al-Khaseeb/Emhellah Desalination Plant, Basra, Iraq 2019, 72,000 m³/d RO
 Basrah State Company for Iron & Steel, Basrah, Iraq 2019, 5,250 m³/d RO
 Toyota Industries, Pakistan 2019, 1,500 m³/d RO
 Desalination Plant for Second Phase Expansion of Southern Gaza Desalination Plant (SGDP), Gaza, Palestine 2018, 10,000 m³/d RO
 Habas Steel Mill, Aliaga, Turkey 2018, 9,600 m³/d RO
 Erdemir Steel, Zonguldak, Turkey 2018, 5,000 m³/d RO
 Bahrain Airport, Muharraq, Bahrain 2018, 4,320 m³/d RO
 National Foods Company, United Arab Emirates 2018, 2,880 m³/d RO
 National Refinery Limited, Karachi, Pakistan 2018, 2,000 m³/d RO
 Al Reef Sugar Refinery, Jazan, Saudi Arabia 2018, 1,750 m³/d RO
 Bahrain International Airport, Bahrain 2018, 1,100 m³/d RO
 NEF Bodrum Project, Bodrum, Turkey 2018, 400 m³/d RO
 Eren Energy, Zonguldak, Turkey 2016, 11,520 m³/d RO
 Kuwait Fund, Gaza, Palestine 2016, 10,200 m³/d RO
 Titanic Hotel, Bodrum, Turkey 2016, 800 m³/d RO
 DNM Textile, Egypt 2016, 650 m³/d RO
 Emrah Hotel, Mugla, Turkey 2016, 600 m³/d RO
 Teos Hiddenbay Hotel, Izmir, Turkey 2016, 500 m³/d RO
 Astas Hotel, Mugla, Turkey 2016, 270 m³/d RO
 UNICEF, Gaza, Palestine 2015, 6,000 m³/d RO
 Kaya Artemis, Bafra, Cyprus 2015, 750 m³/d RO
 Palmwings Hotel, Izmir, Turkey 2015, 610 m³/d RO
 Aksa, Yalova Province, Turkey 2014, 11,568 m³/d RO
 Titanic Hotel, Bodrum, Turkey 2014, 800 m³/d RO
 Özyer Grup Artev, Bodrum, Turkey 2014, 750 m³/d RO
 Sealight Hotel, Kuşadası, Turkey 2014, 500 m³/d RO
 Sealight Amara Hotel, Kuşadası, Turkey 2014, 500 m³/d RO
 Cactus Hotel, Bodrum, Turkey 2014, 280 m³/d RO
 Caressa Hotel, Bodrum, Turkey 2014, 280 m³/d RO
 Biryaz Hotel, Bodrum, Turkey 2014, 280 m³/d RO
 Awaza Hotel, Turkmenistan 2014, 250 m³/d RO
 Porto Beach Alacati Hotel, Bodrum, Turkey 2014, 150 m³/d RO
 Kuşadası Hilton Hotel, Kuşadası, Turkey 2014, 140 m³/d RO
 Atlas Energy Thermal Power Plant, Iskenderun, Turkey 2013, 12,000 m³/d RO
 Al-sadder Gas Turbine Power Plant Demineralisation, Baghdad, Iraq 2012, 5,760 m³/d RO
 Erbil Combined Cycle Power Plant Demineralisation, Erbil, Iraq 2012, 2,400 m³/d RO
 Astaş Bodrum Hotel & Villa, Bodrum, Turkey 2012, 1,600 m³/d RO
 Acarsoy Power Plant, Denizli, Turkey 2012, 600 m³/d RO
 Merit Afrodit Hotel, Cyprus 2012, 490 m³/d RO
 Buyukhanli Kardesler Hotel, Bodrum, Turkey 2012, 280 m³/d RO
 Suhan Hotel, Cappadocia, Turkey 2012, 140 m³/d RO
 Ayasandra Hotel, Bodrum, Turkey 2012, 140 m³/d RO
 Sirene Yalikavak Hotel, Bodrum, Turkey 2012, 140 m³/d RO
 Tekfen Muhendislik Demineralization System, Samsun, Turkey 2012, 110 m³/d ED
 Nuh' Un Gemisi Hotel, Bafra Turizm Bolgesi, Cyprus 2012, 32 m³/d RO
 İÇDAŞ Steel Mill Phase II, Çanakkale-Biga, Turkey, 12,000 m³/d RO
 Diler Steel Mill-Gebze Phase II, Gebze, Turkey, 3,800 m³/d RO
 Diler Steel Mill, Gebze, Turkey, 3,600 m³/d RO
 Enka Power Aliaga, Izmir-Aliaga, Turkey, 1,800 m³/d RO
- Plant Supplier (Reuse)**
- New Power Plant, Turkey 2020, 30,750 m³/d RO
 Modern Karton, Turkey 2020, 3,500 m³/d RO
 Kipas Paper Mill, Turkey 2019, 36,000 m³/d RO
 Kazan Soda, Turkey 2019, 14,400 m³/d Other / Unknown
 Kepez Power Plant, Turkey 2019, 8,650 m³/d RO
 Engro Foods, Pakistan 2019, 2,400 m³/d RO
 Sheikoo Sugar, Pakistan 2019, 2,160 m³/d RO
 Ak Gıda Foods, Turkey 2019, 1,440 m³/d RO
 University of Kuwait, Kuwait 2018, 7,200 m³/d RO
 Eti Maden, Turkey 2018, 1,440 m³/d RO

Naveena Steel Mill, Pakistan 2018, 1,400 m³/d RO
Iççdaş Steel Mill, Turkey 2017, 5,040 m³/d RO
Haleeb Foods, Pakistan 2017, 2,400 m³/d RO
Odas Power Plant, Turkey 2016, 1,775 m³/d RO

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Plant Supplier

Giza, Ain Sukhna, Egypt 2013, 2,400 m³/d RO
Gissi, Chieti, Italy 2007, 456 m³/d RO

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EPC and O&M Contractor

West Kuwait Produced Water Treatment & Zero Liquid Discharge (ZLD) Plant, West Kuwait, Kuwait 2015, Other / Unknown
EGPC Desal Plant, Red Sea Coast, Egypt 2014, 1,650 m³/d RO
Khiran Desal Plant, Al Khiran, Oman 2014, 600 m³/d RO
Qurayyat Desal Plant, Qurayyat, Oman 2013, 3,600 m³/d RO
Al Gharamah Desal Plant, Saudi Arabia 2013, 1,700 m³/d RO

EPC Contractor

Sulaibya Zero Liquid Discharge (ZLD) Plant, Sulaibya, Kuwait 2013, Other / Unknown
Turkmenbashi Refinery Complex, Turkmenbashi, Turkmenistan 2012, 4,500 m³/d Other / Unknown

EPC, O&M, and Water Sale on a BOO Basis

Aseeiah Desal Plant, Aseeiah, Oman 2015, 10,000 m³/d RO
Qurayyat Desal Plant, Qurayyat, Oman 2015, 8,000 m³/d RO

O&M Contractor

ESPAC Desal Plant, Saudi Arabia 2013, 700.0 RO

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Design and Installation

Castlemaine Perkins Water Recycling Plant, Brisbane, Queensland, Australia, 20,000 m³/d RO

Smith's Wastewater Treatment Plant, Tingalpa, Queensland, Australia, 13,000 m³/d RO

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Plant Supplier

Design-Build Tertiary Treatment Reverse Osmosis, Hosur, Tamilnadu, India 2023, 3,669 GPM RO

Effluent Treatment and Common Facilities for Solar Integrated Solar PV, Jamnagar, Gujarat, India 2023, 3,258 GPM RO

China Coal Jiuxin Coking WWT Project, Lingshi County, Shanxi, China 2023, 440 GPM RO

RO - AVMD Facility, Kurkumbh, Maharashtra, India 2023, 28 GPM RO

33 MLD SWRO Plant for Kutch Copper Limited, Mundra, Gujarat, India 2022, 14,772 GPM RO

Newman Power Station CTBD, El Paso, Texas, United States 2022, 910 GPM RO

Rental Fleet Asset, Canonsburg, Pennsylvania, U.S.A. 2022, 800 GPM RO

Orion SAGD Facility Phase 2D, Cold Lake, Alberta, Canada 2022, 515 GPM RO

Bartlett Soybean WWT, Cherryvale, Kansas, United States 2022, 200 GPM RO

220KLD ETP Recycle system (Filtration UF-RO 1 & 2 system) and ZLD system (MVRE), Sanaswadi, Maharashtra, India 2022, 40 GPM RO

Shirwal ETP-Recycle- ZLD Revamp Project, Khandala, Maharashtra, India 2022, 25 GPM RO

TVS Srichakra 92 KLD ETP Plant, Madurai, Tamilnadu, India 2022, 17 GPM RO

World Energy Paramount SMR Demin, Paramount, California, United States 2021, 6,864 m³/d

B&V Cascade Power Project RWT, Alberta, Canada 2021, 2,000 m³/d RO

Cascade Power Project RWT, Yellowhead County, Alberta, Canada 2021, 501 GPM RO

Renewable Energy Wastewater Treatment System, Geismar, Louisiana, United States 2021, 410 m³/d MBR

Evaporation and Crystallization Plant for LiCl Brine, Argentina 2021, 396 GPM Other / Unknown

- Taiwan Penghu Qimei 900 CMD Desalination Plant, Qimei Island, Penghu, Taiwan 2021, 177 GPM RO
- Balickapan Water Treatment Plant, Balikpapan, Indonesia 2020, 100,000 m³/d RO
- Tuke Phase II (Methanol), Inner Mongolia Autonomous Region, China 2020, 5,000 m³/d RO
- Mine Water Desalination Project, St-Honore-de-Chicoutimi, Quebec, Canada 2020, 1,000 m³/d RO
- HMEL-CPU (DFCU) Package, Bhatinda, Punjab, India 2020, 806 GPM Other / Unknown
- Mine Water Desalination Project, St-Honore-de-Chicoutimi, Quebec, Canada 2020, 528 GPM RO
- CTBD Reuse Project Ningbo Plant Formosa Plastic, Ningbo, China 2020, 500 m³/d RO
- Seawater Reverse Osmosis Package (SWRO), Los Pelambres, Chile 2019, 141,200 GPM RO
- 70 MLD Desalination Project, Bhavnagar, Ghogha, Gujarat, India 2019, 70,000 m³/d RO
- Bechtel Seawater Reverse Osmosis Package, Los Pelambres, Chile 2019, 35,000 m³/d RO
- 30 MLD Desalination Project, Sutrapada, Sutrapadi, Gujarat, India 2019, 30,000 m³/d RO
- Mandvi, Gujarat, India 2019, 18,345 GPM RO
- Bhavnagar, Gujarat, India 2019, 12,842 GPM RO
- Dwarka, Gujarat, India 2019, 12,842 GPM RO
- Wolf Lake RO, Bonnyville, Alberta, Canada 2019, 9,354 GPM RO
- Sutrapada, Gujarat, India 2019, 5,504 GPM RO
- South Louisiana Methanol Plant 1 (Advanced Water Treatment & Condensate Polishing), St. James Parish, Louisiana, United States 2019, 3,024 m³/d RO
- Sabine Pass Liquefaction SPL 4, Cameron, Louisiana, U.S.A. 2019, 2,068 GPM RO
- CRM ETP Recycle Plant at KPO, Jaipur, Odisha, India 2019, 2,025 GPM Other / Unknown
- Shady Hills CTBD ZLD & Demin System / RCWTCS EPC Contract, Spring Hill, Florida, United States 2019, 960 m³/d RO
- Huntington Station, Wastewater Redirect Project, Huntington, Utah, U.S.A. 2019, 256 GPM RO
- Sea Water Desalination & Post RO-DM Plant Phase II Expansion, Bhavnagar, Gujarat, India 2018, 10,277 m³/d RO
- Hugh L Spurlock CCR/ELG Compliance Project, Maysville, Kentucky, United States 2018, 2,184 m³/d ZLD
- Ford Louisville Assembly Plant, Louisville, Kentucky, United States 2018, 1,728 m³/d RO
- Fulcrum Sierra Biorefinery, McCarren, Nevada, United States 2018, 772 m³/d RO
- Ford Reverse Osmosis Trailer - II, Louisville, Kentucky, United States 2018, 300 GPM RO
- Jiangsu Huadian Phase II Extension Project, Jurong City, Jiangsu, China 2018, 66 GPM Other / Unknown
- Ford Kansas City Assembly Plant (KCAP): Ford Reverse Osmosis Trailer - I, Claycomo, Missouri, United States 2017, 1,728 m³/d RO
- Buritica Phase I Gold Mine Water Treatment Plant, Buritica, Colombia 2017, 1,200 m³/d RO
- Buritica Phase II Gold Mine Water Treatment Plant, Buritica, Colombia 2017, 1,200 m³/d RO
- PDO Expansion Project / BioProduct Evaporator System, London, Tennessee, U.S.A. 2017, 400 GPM Other / Unknown
- Cricket Valley Energy Center / Wastewater Treatment, Town of Dover, New York, U.S.A. 2017, 272 GPM RO
- Wastewater Reuse Project / Phase I, Baotou City Autonomous Region, Mongolia 2016, 55,504 GPM RO
- Port Said, Egypt 2016, 8,640 m³/d RO
- Lower Fars Heavy Oil Development Program Phase-I (60 MBOPD), Kuwait 2016, 7,484 GPM RO
- Yibal Sultante, Oman 2016, 6,000 m³/d RO
- Yibal Khuff, Yibal, Oman 2016, 1,102 GPM RO
- Majnoon Oil Field Development, Hawizeeh Marshes, Iraq 2016, 1,004 GPM RO
- Greensville County Power Station - Cycle Make-up Water Treatment System, Emporia, Virginia, U.S.A. 2016, 954 GPM RO
- Kuwait 2016, 480 m³/d RO
- Swift Current, Saskatchewan, Canada 2016, 272 m³/d RO
- Chinook Station, Swift Current, Saskatchewan, Canada 2016, 100 GPM RO
- Shenhua Ningxia Coal to Chemical Project, Ningxia, Ningxia Province, China 2015, 55,200 m³/d Other / Unknown
- Inner Mongolia Baotou Tuyou Qi Gejia, Baotou City, Inner Mongolia, China 2015, 30,000 m³/d Other / Unknown
- Seawater Desalination & Post RO-DM Plant, Bhavnagar, India 2015, 16,000 m³/d RO
- Seawater Desalination & Post RO-DM Plant, Bhavnagar, India 2015, 15,000 m³/d RO
- Shenhua Xinjiang Coal 4M Tons/Year Indirect Coal Liquefaction Project/Shenhua Ningxia Wastewater ZLD, Yinchuan City, Ningxia Hui Autonomous Region, China 2015, 10,100 GPM RO
- Seawater Desalination & Post RO-DM Plant, Bhavnagar, India 2015, 8,554 GPM RO
- Inner Mongolia Huineng, Ordos City, Inner Mongolia Autonomous Region, China 2015, 6,120 m³/d Other / Unknown
- Sabine Pass III Liquefaction Project, Cameron Parish, Louisiana, U.S.A. 2015, 3,102 GPM RO
- High TDS Wastewater Concentration Project, Ordos City, Inner Mongolia Autonomous Region, Mongolia 2015, 1,122 GPM RO
- Valley Energy, Middletown, New York, U.S.A. 2015, 500 GPM RO
- Corpus Christi, Texas, United States 2015, 432 m³/d RO
- Corpus Christi Liquefaction Project, Corpus Christi, Texas, U.S.A. 2015, 260 GPM RO
- Sohar Refinery, Sohar, Oman 2014, 16,056 m³/d MED
- Dhanbad, Jharkhand, India 2014, 10,800 m³/d RO
- Abu Dhabi, United Arab Emirates 2014, 8,280 m³/d RO
- New Plymouth, Idaho, United States 2014, 7,080 m³/d RO
- Tata Maithon, Dhanbad, Jharkhand, India 2014, 1,980 GPM RO
- Satah Al Razboot Field Development-EPC Package 4 (SARB), Abu Dhabi, United Arab Emirates 2014, 1,680 GPM RO
- Langley Gulch Power Plant, New Plymouth, Idaho, U.S.A. 2014, 1,300 GPM RO.
- Puente Alto, Chile 2014, 216 m³/d RO
- Healy Nox Retrofit, Healy, Alaska, U.S.A. 2014, 160 GPM ZLD
- Puente Alto Co-Generation Plant, Puento Alto, Chile 2014, 88 GPM RO
- Showa Denko Scrubber Blowdown Treatment Unit 2, Ridgeville, South Carolina, United States 2014, 8 GPM Other / Unknown
- Mukhaizna Facilities Development, Oman 2013, 186,522 m³/d Other / Unknown
- Reliance Industries Ltd., Jamanagar, Gujarat, India 2013, 173,328 m³/d Other / Unknown
- SWRO Plant from Federal Electricity and Water Agency (FEWA), Ghalilah, Ras Al Khaimah, United Arab Emirates 2013, 68,100 m³/d RO
- Maithon Power Limited, Dhanbad, Jharkha, India 2013, 10,800 m³/d RO
- Equate Waste Water Recycle Plant, Kuwait 2013, 4,800 m³/d RO
- Hinduja HNPCL, Pavalavasa Village, Vishakhapatnam, Andhra Pradesh, India 2013, 2,292 GPM RO
- Pengrowth Lindbergh SAGD Facility, Alberta, Canada 2013, 1,816 GPM Other / Unknown
- Refinery ETP Expansion - Phase II, Jamnagar, Gujarat, India 2013, 1,540 GPM RO
- Sabine Pass II Liquefaction Project, Cameron Parish, Louisiana, United States 2013, 1,420 GPM RO
- Hangingstone Expansion Project, Phase 1, Fort McMurray, Alberta, Canada 2013, 590 GPM Other / Unknown
- Shenhua Xinjiang Coal-based New Materials Project, Urumqi City, Xinjiang Uygur Autonomous Region, China 2013, 308 GPM RO
- Pepsi Oakland Reject Recovery, Oakland, California, U.S.A. 2013, 60 GPM RO

Bloomingtondale Nitrate Reduction, Town of Bloomingtondale, Montezuma, Indiana, U.S.A. 2013, 40 GPM RO

Showa Denko Scrubber Blowdown Treatment, Ridgeville, South Carolina, United States 2013, 8 GPM Other / Unknown

Sadara Project (RTIP), Al Jubail, Saudi Arabia 2012, 184,272 m³/d Other / Unknown

Wastewater Treatment Plant for OPAL, Dahej, Gujarat, India 2012, 26,328 m³/d RO

Covington PRG Facility, California, United States 2012, 13,104 m³/d Other / Unknown

CEPL MUTIARA Thermal Power Project, Tuticorin, Tamil Nadu, India 2012, 12,960 m³/d RO

Expansion & Modernisation of International Terminal, Mumbai International Airport, Maharashtra, India 2012, 10,008 m³/d RO

KAIA Desalination Project, Jeddah, Saudi Arabia 2012, 8,200 m³/d RO

ETHYDCO - ENPPII / Alexandria Ethylene Manufacturing Plant, Alexandria, Egypt 2012, 4,466 GPM RO

Genesis Solar, California, United States 2012, 3,168 m³/d RO

Baja Mining Sulfuric Acid Plant, Santa Rosalia, Mexico 2012, 2,784 m³/d RO

Portsmouth Waste to Energy, Virginia, United States 2012, 1,368 m³/d RO

WAC Softeners for Harmon Valley South Plant, Alberta, Canada 2012, 1,008 m³/d Other / Unknown

Chinacoal Group Ordos Tuke Chemical Fertilizer Project / Concentrated Wastewater Reuse and ZLD System, Tuke Town, Ordos City, Inner Mongolia Autonomous Region, China 2012, 880 GPM RO

NRG Energy Center, Pennsylvania, United States 2012, 552 m³/d RO

Horsehead, Mooreseboro, North Carolina, United States 2012, 500 GPM RO

Nikiski Cogeneration Plant, Nikiski, Alaska, United States 2012, 336 m³/d RO

Fossil Fuel Energy Co-Op Power, Gantt, Alabama, United States 2012, 336 m³/d RO

Wheelabrator, Portsmouth, Virginia, United States 2012, 250 GPM RO

ETHYDCO - Toyo / Alexandria Ethylene Manufacturing Plant, Alexandria, Egypt 2012, 110 GPM Other / Unknown

Power South Energy Cooperative, Gantt, Alabama, U.S. Virgin Islands 2012, 60 GPM RO

Covanta Durham York Energy Centre, Courtice, Ontario, Canada 2012, 32 GPM RO

System Supplier (ZLD)

Oxy iP5, Direct Air Capture (DAC-1), Penwell, Texas, United States 2023, 1,100 GPM Other / Unknown

HIL HKD Smelter Plant - ZLD, Sambalpur, Odisha, India 2023, 18 GPM Other / Unknown

Meramandali, Angul - Steel ZLD Project, Dhenkanal, Odisha, India 2022, 6,240 m³/d RO

Zero Effluent Discharge (ZED) Project, India 2022, 1,145 GPM RO

Zero Liquid Discharge (ZLD) Implementation for 1-4 Site, Doha, Mesaieed, Qatar 2022, 566 GPM Other / Unknown

Huizhou Daya Bay Power Plant WW ZLD Project, Huizhou Daya Bay, Guangdong, China 2022, 123 GPM Other / Unknown

Hindalco Aluminum ZLD, Raigad, Maharashtra, India 2022, 70 m³/d RO

ETP ZLD for Pithampur Capsule Plant, Mundra, Gujarat, India 2022, 44 GPM MBR

ETP ZLD for Aurangabad Capsule Plant, Aurangabad, Maharashtra, India 2022, 41 GPM MBR

HIL 70 KLD DMF-UF-RO-MVR (ZLD), Raigad, Maharashtra, India 2022, 13 GPM RO

Freeport Indonesia ZLD / Manyar Smelter Project, Java, Indonesia 2021, 2,880 m³/d

JSW Steel Vijayanagar Works RO-ZLD, Karnataka, India 2020, 12,500 m³/d RO

Vijayanagar Works Coke-Oven5 RO-ZLD, Vijayanagar, Karnataka, India 2020, 1,871 GPM MBR

FCCC BA and ZLD System, California, United States 2020, 200 GPM RO

Power Plant WW ZLD Project, Maoming City, Guangdong, China 2020, 70 GPM RO

BA and ZLD System, Apple Valley, California, United States 2020, 57 GPM RO

Qianwan Power Plant ZLD Project, Shenzhen, Guangdong Province, China 2020, 25 m³/d RO

Dariba ZLD, Dariba, Rajasthan, India 2019, 587 GPM RO

HZL Dariba ZLD, Dariba, Rajasthan, India 2019, 587 GPM RO

Dahanu ETP-Recycle-ZLD Project, Dahanu, Maharashtra, India 2019, 64 GPM RO

KOWEPO Taean FGD ZLD Project/Taeon Thermal Power Plant Project Unit #1-8, United States 2018, 1,440 m³/d ZLD

ZLD - Hindustan Zinc Limited Chanderiya, Chanderiya, Rajasthan, India 2018, 336 m³/d RO

Hazira ZLD Project, Gujarat, India 2018, 83 m³/d ZLD

Mundra ZLD Project, Gujarat, India 2018, 15 GPM VC

Bodega, Colombia 2017, 4,704 m³/d RO

Dover, New York, United States 2017, 1,488 m³/d RO

Hawizeh Marshes, Iraq 2016, 4,632 m³/d ZLD

Emporia, Virginia, United States 2016, 3,504 m³/d RO

TCI Sanmar ZLD Debottlenecking Project / ZLD-2 Chemical PlantExpansion, Port Said, Egypt 2016, 1,584 GPM RO

Ethydco petrochemical complex, Alexandria, Egypt 2016, 600 m³/d ZLD

Pune, Maharashtra, India 2016, 600 m³/d RO

ANRPC Zero Liquid Discharge Industrial Wastewater Treatment Plant, Alexandria, Egypt 2016, 220 GPM RO

Manjari SEZ, STP, ETP, Recovery, ZLD, Pune, Maharashtra, India 2016, 183 GPM RO

Alexandria, Egypt 2016, 141 m³/d RO

Middle Town, New York, United States 2015, 9,600 m³/d RO

Cameron Parish, Louisiana, United States 2015, 5,640 m³/d RO

Stonewall Energy, Leesburg, Virginia, United States 2015, 2,736 m³/d VC

Tuke Mining Water ZLD System, Tuke Town, Ordos City, Inner Mongolia Autonomous Region, China 2015, 1,760 GPM RO

Gansu Honghui ZLD Coal-based Utilization Green Field Project, Jiayuguan City, Gansu, China 2015, 35 GPM Other / Unknown

Sabine Pass Liquefaction Project, Cameron Parish, Louisiana, United States 2014, 40,850 m³/d ZLD

Lindbergh SAGD Facility, Alberta, Canada 2014, 10,519 m³/d Thermal

Petrochemical & Refining, Rabigh, Saudi Arabia 2014, 10,080 m³/d ZLD

Plant Daniel, Escatawpa, Mississippi, United States 2014, 8,448 m³/d ZLD

Petrochemical & Refining, Rabigh, Saudi Arabia 2014, 315 m³/d ZLD

Ridgeville, South Carolina, United States 2014, 43 m³/d ZLD

Channel Energy Center Expansion, Houston, Texas, United States 2013, 20,784 m³/d ZLD

Plainfield Renewable Energy Power Plant, Plainfield, Connecticut, United States 2013, 3,816 m³/d ZLD

Zinc Recycle, Mooreseboro, North Carolina, United States 2013, 2,736 m³/d ZLD

Shenhua Xinjiang Coal-based New Materials Project, Urumqi City, Xinjiang Uygur Autonomous Region, China 2013, 1,650 GPM Other / Unknown

Concentrated Wastewater Reuse and ZLD System, Hulun Buir City, Mongolia 2013, 440 GPM RO


York Energy Centre, Courtice, Ontario, Canada 2013, 192 m³/d ZLD


Buckey Florida Treatment, Perry, Florida, United States 2012, 816 m³/d ZLD

Merrimack Station Unit 1 & 2, Bow, New Hampshire, United States
2012, 403 m³/d Thermal

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Plant Supplier (Desal)

Hadalat Borehole equipped with Containerized RO Desalination Plant, Ruwaished, Jordan 2016, 1,367 m³/d RO

KEMAPCO site, Aqaba, Jordan 2015, 13,680 m³/d RO

Thahret Rameh Desalination Plant - Modification of Al Karameh Dam -BOT Project, Jordan Valley, Jordan 2015, 2,400 m³/d RO

Al Alali UF Plant, Fuahais, Jordan 2015, 600 m³/d

O&M Contractor

Byrain Ultra Filtration Water Treatment Plant, Zarqa, Jordan 2014, 2,640 m³/d

Al Modawarah Desalination Plant, Modawarah, Jordan 2014, 1,200 m³/d RO

Arvind Envisol (R)

www.arvindenvisol.com

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EPC and O&M Contractor

Greenfield Project: 8 MLD Sewage to Process Water Plant, Ahmedabad, Gujarat, India 2018, 8,000 m³/d MBR

Bahwan Engineering Group (D)

www.bahwanengineering.com


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Developer, through Bahwan Holding United Infrastructure Development Company

Oman 2017, 80,000 m³/d RO

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Sivagangai WWTP, Tamil Nadu, India 2013, 4,920 m³/d


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EPC Contractor

Tampico, Mexico 2013, 4,750 m³/d Other/Unknown

Monterrey, Mexico 2012, 6,000 m³/d RO

Beijing Enterprises Water Group (D) (R)

www.bewg.net

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Developer

Hebei, China 2013, 50,000 m³/d RO

Developer, Part of Joint Venture BESIN-UEN

Changi, Singapore 2015, 228,000 m³/d RO

Project Developer

Fengtai Hexi Reclaimed Water Plant Phase II, Beijing, China 2019, 50,000 m³/d MBR

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Technology Provider

Foshan Luyuan Industrial Wastewater Treatment Project, Foshan, China 2023, 35,714 m³/d NF

Zhoushan Desal Project, Zhejiang, China 2022, 100,000 m³/d RO

Xinjiang Qinghua Energy Group Industrial ZLD Project, Xinjinag, China 2022, 30,000 m³/d RO

Huaining Economic Development Zone Reuse Project, Qingdao, China 2022, 15,000 m³/d RO

Inner Mongolia Yili Chemical Industry Sewage Treatment Project, Inner Mongolia, China 2022, 2,000 m³/d RO

Developer and Membrane Supplier

Changping District Water Reuse PPP, Beijing, China 2017, 200,000 m³/d MBR

Taoziwan Wastewater treatment plant (supply for Wanhua industrial park), Yantai City, Shandong Province, China 2017, 150,000 m³/d RO

Princess Mansion Wastewater Advanced Treatment Project, Hohhot City, Inner Mongolia, China 2017, 50,000 m³/d RO

EPC Contractor

Lubei Industrial Park Desal Project (Phase 2), Dongying, China 2023, 50,000 m³/d RO

Weibei Industrial Park Wanzi Drinking Water Project, Xian, China 2022, 40,000 m³/d NF

Pinghe Town Water Supply Upgrade Project, Zhangzhou, Fujian Province, China 2016, 40,000 m³/d NF

Water Supply Upgrade Project, Yangquan, Shanxi Province, China 2014, 35,000 m³/d NF

Xinmin No. 2 WWTP Reuse Project, Shenyang, China, 50,000 m³/d MBR

Dangshan County Economic Development Zone Industrial Sewage Treatment Plant (Phase II) Project, Anhui, China, 30,000 m³/d MBR

EPC and O&M Contractor

Lubei High-tech Development Zone Seawater Desalination Project, Binzhou, Shandong Province, China 2017, 100,000 m³/d RO

Dongjiakou Economic Zone Seawater Desalination Project, Qingdao, Shandong Province, China 2016, 100,000 m³/d RO

Weibei Industrial Park Wanzi WWTP, Xi'an, Shanxi Province, China 2016, 100,000 m³/d NF

Equipment Supplier: Desalination System

Pakistan Gwadar Desalination Project, Gwadar, Pakistan 2022, 5,000 m³/d RO

O&M Contractor

Xiaoyueyuan Wastewater Reuse Project, Beijing, China, 6,000 m³/d MBR

Garden Expo Park Reuse Project, Beijing, China, 3,100 m³/d Other / Unknown

Beijing Urban Construction Group Co., Ltd



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SELECTED REFERENCES

Plant Supplier (Reuse)

Huaifang Water Recycling Plant, Beijing, China 2014, 200,000 m³/d MBR

Beijing Woteer Water Engineering Co., Ltd.



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<http://www.camce.com.cn/en/enAC/enSAB>

SELECTED REFERENCES

Plant Supplier (Desal)

Yongji, China 2014, 6,264 m³/d RO

Changxing, China 2014, 600 m³/d FO

Xingtai, China 2013, 3,840 m³/d RO

Yitai, China 2012, 7,200 m³/d RO

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Rabigh, Saudi Arabia

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<http://www.xytugongmo.com/en/Company>

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Plant Supplier (Reuse)

Beijing Shunyi Yangzhen WWTP, Shunyi, Beijing, China 2013, 3,000 m³/d

Beijing Xingang Yonghao Water Engineering



<http://www.xingangyonghao.com>

SELECTED REFERENCES

EPC Contractor

Beijing Fengtai Qinglonghu WRP, China 2014, 10,000

Belhasa Projects



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SELECTED REFERENCES

Plant Supplier (Reuse)

Madina Al Shamaliya STP, Bahrain 2015, 40,000 m³/d

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SELECTED REFERENCES

EPC Contractor

SWRO Plant (DEWA) in Jebel Ali Power Station, Dubai, United Arab Emirates 2018, 182,000 m³/d RO

SWRO Plant (DEWA) in Jebel Ali Power Plant & Desalination Complex, Dubai, Jebel Ali, United Arab Emirates 2017, 182,000 m³/d RO

Jebel Ali STP - Phase 2, Dubai, United Arab Emirates 2016, 375,000 m³/d UV

Doha Industrial Area WWTP - Expansion, Doha, Qatar 2014, 30,000 m³/d SBR

ISTP₂ - Wathba II WWTP, Abu Dhabi, United Arab Emirates 2012, 300,000 m³/d Tertiary treatment

ISTP₂ - Al Hamah WWTP, Al-Ain, Abu Dhabi, United Arab Emirates 2012, 130,000 m³/d Tertiary treatment

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SELECTED REFERENCES

Plant Supplier

Kodungajur, Chennai, Tamil Nadu, India 2016, 45,000 m³/d RO

Water Treatment Plant Package for 3 x 800 MW Krishnapatnam APPDCL Project, Andhra Pradesh, India, 55,000 m³/d

Tertiary Treatment Reverse Osmosis Plant (TTRO), Tamil Nadu, India, 45,000 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

TANGEDCO, Udangudi, Tamil Nadu, India 2018, 45,744 m³/d Other / Unknown

TANGEDCO, Udangudi, Tamil Nadu, India 2018, 16,000 m³/d RO

TANGEDCO, Udangudi, Tamil Nadu, India 2018, 1,728 m³/d RO

NTECL Vallur, Tamil Nadu, Vallur, India 2017, 57,600 m³/d

BIFPCL, Rampal, Bangladesh, Maitree, Bangladesh 2017, 43,320 m³/d Other / Unknown

BIFPCL, Rampal, Bangladesh, Maitree, Bangladesh 2017, 17,616 m³/d RO

NTECL, Vallur-3x500MW TPS, Tamil Nadu, India 2017, 2,400 m³/d EDI

Kilwa Energy-370 MW CCPP, Kilwa, Tanzania 2017, 2,160 m³/d RO

Kilwa Energy-370 MW CCPP, Kilwa, Tanzania 2017, 1,776 m³/d RO

Kilwa Energy-370 MW CCPP, Kilwa, Tanzania 2017, 528 m³/d RO
 Kilwa Energy-370 MW CCPP, Kilwa, Tanzania 2017, 432 m³/d RO
 BIFPCL, Maitree, Khulna, Bangladesh 2016, 18,912 m³/d RO
 BIFPCL, Maitree, Khulna, Bangladesh 2016, 1,776 m³/d RO
 BHEL, Trichy, Tamil Nadu, India 2015, 2,000 m³/d RO
 KPCL, Yelahanka, Karnataka, India 2015, 1,056 m³/d UF
 KPCL, Yelahanka, Karnataka, India 2015, 840 m³/d RO
 KPCL, Yelahanka, Karnataka, India 2015, 320 m³/d RO
 Ennore 2x660 MW TPS, Tamil Nadu, India 2014, 38,400 m³/d RO
 Ennore 2x660 MW TPS, Tamil Nadu, India 2014, 13,440 m³/d RO
 BHEL, Hyderabad, Telangana, India 2014, 8,000 m³/d MBR
 Ennore 2x660 MW TPS, Tamil Nadu, India 2014, 2,880 m³/d RO
 KPCL, Yelahanka 370 MW CCPP, Karnataka, India 2014, 480 m³/d RO
 OPaL, Dahej, Dahej, Gujarat, India 2013, 96,000 m³/d UF
 HNPCL, Vizag, Visakhapatnam, Andhra, India 2011, 2,976 m³/d RO
 PPCL, Pragati-II, Bamnauli, New Delhi, India 2010, 840 m³/d RO
 PPCL, Pragati-II, Bamnauli, New Delhi, India 2010, 744 m³/d RO
 North Chennai (2x600MW), North Chennai, India, 6,432 m³/d UF
 GSPC Pipavav, Gujarat, India, 5,376 m³/d RO
 North Chennai (2x600MW), North Chennai, India, 4,800 m³/d RO
 KPCL, Bellary-2, Karnataka, India, 2,280 m³/d RO
 PPCL, Pragathi III (2x750MW), Bawana, New Delhi, India, 1,920 m³/d MBR
 KPCL, Bellary-2, Karnataka, India, 1,824 m³/d RO
 PPCL, Pragathi III (2x750MW), Bawana, New Delhi, India, 1,344 m³/d RO
 PPCL, Pragathi III (2x750MW), Bawana, New Delhi, India, 1,224 m³/d RO
 GSPC Pipavav, Gujarat, India, 792 m³/d RO

Plant Supplier (Reuse)

WBPDCL Sagardighi, West Bengal, Sagardighi, India 2018, 6,144 m³/d
 WBPDCL Sagardighi, West Bengal, Sagardighi, India 2018, 4,290 m³/d RO
 BIFPCL, Rampal, Bangladesh, Maitree, Bangladesh 2017, 3,200 m³/d RO

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Plant Supplier (Desal)

Hadnot Point WTP Replacement, Jacksonville, North Carolina, United States 2023, 8.0 MGD RO
 Sandow Epcor Facility, Lexington, Texas, United States 2021, 8.928 MGD RO

Brackish Water Desalination Plant, City of Antioch, California, United States 2021, 6.0 MGD RO
 Southwest WTP, North Port, Florida, United States 2020, 18,927 m³/d RO
 Foothill Water Treatment Plant, City of Beverly Hills, California, United States 2020, 1.16496 MGD RO
 GWRS Phase III, California, United States 2019, 113,500 m³/d RO
 Santa Margarita Conjunctive Use Project, California, United States 2019, 27,252 m³/d RO
 Perris II Desalter, Menifee, California, United States 2019, 20,440 m³/d RO
 Goodyear Water Treatment Plant, Goodyear, Arizona, United States 2018, 13,630 m³/d RO
 Walkersville Water Treatment Plant, Walkersville, Maryland, United States 2018, 5,300 m³/d RO
 Daytona Beach Reuse Demo, Daytona, Florida, United States 2018, 757 m³/d RO
 Cherry Point Marine Corps Air Station Water Treatment Plant, Cherry Point, North Carolina, United States 2017, 25,549 m³/d RO
 Robert W. Goldsworthy Desalter, Torrance, California, United States 2016, 17,412 m³/d RO
 Chino I Desalter Expansion, Chino, California, United States 2016, 6,813 m³/d RO
 San Antonio Desalination Plant, Elmendorf, Texas, United States 2015, 37,854 m³/d RO
 Penn State University Water Treatment Plant, University Park, Pennsylvania, United States 2015, 12,870 m³/d RO
 Chino II Desalter Concentrate Reduction Facility, Jurupa Valley, CA, United States 2013, 15,140 m³/d RO
 Dixon Water Treatment Plant, Holly Ridge, NC, United States 2013, 11,355 m³/d RO
 Color Removal WTP, Costa Mesa, CA, United States 2012, 32,554 m³/d NF
 Seminole Brighton WTP, Brighton, FL, United States 2012, 6,056 m³/d RO
 Springtree WTP, Sunrise, FL, United States 2012, 5,678 m³/d RO
 Pinellas County WTE WTP, St. Petersburg, FL, United States 2011, 7,570 m³/d RO
 Hollywood WTP (Train A), Hollywood, FL, United States 2011, 7,570 m³/d RO
 Village of Tequesta WTP, FL, United States 2011, 4,542 m³/d RO
 Six SWRO plants, South Province, Maldives 2011, 3,000 m³/d RO
 Arcadia WTP, Santa Monica, CA, United States 2010, 35,150 m³/d RO
 City of Dania Beach, FL, United States 2010, 18,925 m³/d NF
 Port Hueneme, Oxnard, CA, United States 2010, 15,140 m³/d NF
 Paraquita Bay, Tortola, British Virgin Islands 2010, 10,477 m³/d RO
 Buwayb, Saudi Arabia, 59,000 m³/d RO
 14 Plants for Oil and Gas Platforms, 29,342 m³/d RO
 Basra, Iraq, 5,760 m³/d RO
 Dagenham, United Kingdom, 5,000 m³/d RO
 Basra, Iraq, 4,320 m³/d RO
 Basra, Iraq, 2,880 m³/d RO
 Backies, United Kingdom, 2,200 m³/d RO
 Bonar Bridge, United Kingdom, 1,100 m³/d RO
 16 x 50 m³/d for Type 23 Frigate Royal Navy, 800 m³/d RO
 Broadford, United Kingdom, 705 m³/d RO
 Teangue, United Kingdom, 350 m³/d RO
 Cruise Liner, 250 m³/d RO
 Bracadale, United Kingdom, 230 m³/d RO
 BBC, British Overseas Territory, Saint Helena, 80 m³/d RO

Plant Supplier (Reuse)

- East County Advanced Water Purification, Santee, California, United States 2022, 13,7 MGD RO
- New Kermit H. Lewin Reverse Osmosis Facility, Key West, Florida, United States 2021, 4.0 MGD RO
- North City Pure Water Facility, San Diego, California, United States 2020, 38.85696 MGD RO
- Valencia Advanced Water Treatment, Valencia, California, United States 2018, 33,160 m³/d NF
- San Francisco Westside Recycled Water Treatment Facility, San Francisco, California, United States 2017, 19,862 m³/d RO
- Westside Recycled Water Project, California, United States 2017, 6,056 m³/d RO
- DTS Westside Regional Water Reclamation Facility, Daytona Beach, Florida, United States 2017, 1,000 m³/d RO
- Groundwater Reliability Improvement Program Advanced Water Treatment Facility, Pico Rivera, California, United States 2016, 56,024 m³/d RO
- Altamonte Springs AWT Ultrafiltration Demonstration, Altamonte, California, United States 2016, 1,000 m³/d UF
- Padre Dam Advanced Water Purification Facility, Santee, CA, United States 2016, 70 m³/d RO
- Robert W. Goldsworthy Desalter Expansion, Torrance, California, United States 2015, 9,462 m³/d RO
- Padre Dam Advanced Water Purification Facility, Santee, CA, United States 2014, 40 m³/d RO

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SELECTED REFERENCES

EPC Contractor and Technology Supplier

- Tubili WPCC - Phase 2, Bahrain 2018, 100,000 m³/d Other / Unknown
- Tubili WPCC - Phase 1, Bahrain 2013, 100,000 m³/d Other / Unknown

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SELECTED REFERENCES

Plant Supplier (Reuse)

- Menzel Bouzelfa WWTP - Rehabilitation/Expansion, Nabeul, Tunisia 2013

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EPC Contractor

- Central Java Coal Fired Power Plant, Indonesia 2014, 10,000 m³/d RO
- Al Wathba Enhanced Treated Sewage Effluent Treatment Plant United Arab Emirates, Abu Dhabi, United Arab Emirates, 27,700 m³/d UF

BS Water & Energy



bswaterenergy.com

SELECTED REFERENCES

Desalination Equipment Supplier

- SWRO Desalination Plant- Marseilia Beach 4 North Coast, Marseilia, Egypt 2015, 1,500 m³/d RO
- Renovation of the SWRO Desalination Plant at Blue Bay – Red Sea, El Sokhna, Egypt 2015, 750 m³/d RO
- BWRO Desalination Plant at Marseilia Alam El Roum, Egypt 2015, 500 m³/d RO
- SWRO Desalination Plant- Marseilia Beach 2 North Coast, Marseilia, Egypt 2015, 500 m³/d RO
- Nice 4 Village - SWRO Desalination Plant, Egypt 2015, 500 m³/d RO
- Seawater Desalination Plant, El-hayah Ras Sedr village, Egypt 2013, 1,500 m³/d RO
- Renovation of the SWRO Desalination Plant at Gorgonia Beach, Marsa Alam, Egypt, 600 m³/d RO
- Seawater Desalination Plant, Jumeirah Bay Village, Egypt, 500 m³/d RO

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SELECTED REFERENCES

Engineering and Construction

Valle de Güímar WWTP, Tenerife, Spain 2017, 7,000 m³/d Tertiary treatment

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SELECTED REFERENCES

Plant Supplier (Reuse)

Adeje Arona WWTP - Expansion Phase 2, Tenerife, Arona, Islas Canarias, Spain 2012, 8,000 m³/d Tertiary treatment

Cannon Artes



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SELECTED REFERENCES

Engineering, Procurement, Shop Construction, Supervision of Erection, Commissioning, Start-up

Suez Oil Processing Company, Suez, Egypt 2022, 30,000 m³/d RO Wastewater treatment & recovery, Singapore 2019, 4,320 m³/d MBR Wastewater treatment & recovery, Romania 2019, 3,240 m³/d MBR No 3 Seawater Desalination & Potabilization, Algeria 2019, 150 m³/d RO

Seawater Desalination & Potabilization, Oman 2019, 100 m³/d RO Wastewater recovery, Italy 2018, 720 m³/d MBR Wastewater treatment & recovery, Denmark 2018, 530 m³/d RO Wastewater recovery, Italy 2016, 2,160 m³/d RO

Desalination, Demineralization, Condensate Polishing, Turkmenistan 2015, 10,800 m³/d RO

Refinery Effluent Treatment Plant, Turkmenbashi, Turkmenistan 2014, 26,880 m³/d RO

Engineering, Supply and Commissioning (Excluding Civil Work)

WWTP, Caivano, Salerno, Italy 2017, 240 m³/d MBR

Water and Wastewater Treatment package, Garabogaz, Turkmenistan 2015, 1,200 m³/d RO

WWTP, Battipaglia, Salerno, Italy 2015, 480 m³/d MBR

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SELECTED REFERENCES

Design, Construction, Installation, Commissioning, Start-up, Operation

Paphos Desalination Plant, Paphos, Cyprus 2018, 15,000 m³/d RO

Design, Supply, Installation, Commissioning, Operation

Kouklia Desalination Plant, Paphos, Kouklia, Cyprus 2019, 15,000 m³/d RO

Developer and EPC Contractor

Paphos SWRO, Cyprus 2018, 15,000 m³/d RO

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SELECTED REFERENCES

Developer

El Caracol WWTP, Mexico City, Mexico 2012, 345,600 m³/d

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SELECTED REFERENCES

EP Contractor

Modon DIC-1 Wastewater Reclamation Plant, Dammam, KSA, Saudi Arabia 2012, 3,500 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Malambo, Colombia 2012, 5,616 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Tripoli, Libya, 5,000 m³/d Other / Unknown

Plant Supplier (Reuse)

Tishreen Power station, Damascus, Syria, 1,000 m³/d Other / Unknown

Damascus, Syria, 1,000 m³/d Other / Unknown

Damascus, Syria, 100 m³/d RO

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SELECTED REFERENCES

Plant Supplier

Ribeira WWTP, Galicia, Spain 2014, 8,000 m³/d Tertiary treatment
Ourense WWTP, Galicia, Galicia, Spain 2013, 60,000 m³/d Tertiary treatment

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SELECTED REFERENCES

Plant Supplier (Desal)

Windsor Field, Nassau, Bahamas 2018, 10,911 m³/d RO
Sawangan, Bali, Indonesia 2013, 3,000 m³/d RO

Design, Build, Finance, Operate, Maintain

Governor's Harbour III, Grand Cayman, Cayman Islands 2019, 3,875 m³/d RO

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SELECTED REFERENCES

EP Contractor

Busan Nambu Sewage Treatment Plant, South Korea 2017, 72,000 m³/d MBR

Yogin Sewage Treatment Plant, South Korea 2017, 56,000 m³/d MBR

Namyangju Gigum Sewage Treatment Plant, South Korea 2017, 28,000 m³/d MBR

Goyang-Si Samsung Sewage Treatment Plant, South Korea 2017, 16,000 m³/d MBR

Ulsan KPIC ONE Wastewater Treatment System, South Korea 2017, 1,800 m³/d MBR

Pohang Sewer Reuse System, South Korea 2014, 100,000 m³/d RO
Hanam Sewage Treatment Plant, South Korea 2014, 32,000 m³/d MBR

Samsung LCD Sewage Treatment Plant #7-1, South Korea 2014, 16,500 m³/d MBR
 Yeongwol Water Treatment NF Process, Gangwon, South Korea 2014, 8,000 m³/d NF
 Samsung Fine Chemical Water Treatment #2, South Korea 2013, 29,000 m³/d RO
 Samcheok Mapeyng Water Treatment NF Process, South Korea 2013, 20,000 m³/d NF
 Asan Dogo Sewage Treatment Plant, South Korea 2013, 5,200 m³/d MBR
 Samsung Fine Chemical Water Treatment #1.5, South Korea 2013, 5,000 m³/d RO
 SK Hynix Wastewater Treatment System, South Korea 2013, 3,000 m³/d MBR
 Samsung Fine Chemical Water Treatment #1.75, South Korea 2013, 2,000 m³/d RO
 Gyeongju Sewage Treatment Plant, South Korea 2013, 1,600 m³/d MBR
 Samsung Onyang Pretreatment Demineralization System, South Korea 2012, 9,800 m³/d MF/UF
 Samsung Electronics Industrial Water System, South Korea 2012, 5,000 m³/d MF/UF

EP Contractor and O&M Contractor

Incheon Reuse Project, South Korea 2014, 100,000 m³/d RO

EPC Contractor

Pocheon BTO Reuse Project, South Korea 2016, 22,000 m³/d RO
 Poseung Biomass Power Plant Water Treatment System, South Korea 2016, 1,920 m³/d RO
 Jangmoon Combined Cycle Power Plant Water Treatment System, South Korea 2014, 45,840 m³/d RO
 Taeon Thermal Power Complex 9, 10, Water Treatment System, South Korea 2013, 9,600 m³/d RO
 Yeongdong Thermal Power Plant 2 Demineralization System, South Korea 2012, 480 m³/d RO

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SELECTED REFERENCES

Developer

Majis 3MLD Plant, Sohar, Sohar, Oman 2013, 3,200 m³/d RO

EPC Contractor

NCIC55, Egypt 2023, 1,000 m³/d RO
 El Kayan UF, New Cairo, Egypt 2020, 100,000 m³/d UF
 Four Seasons BRWO, Sharm El-Sheikh, Egypt 2019, 7,500 m³/d RO
 Four Seasons MBR, Sharm El-Sheikh, Egypt 2019, 1,500 m³/d MBR
 Marsa Matrouh Expansion, Marsa Matrouh, Egypt 2014, 24,000 m³/d RO

Armament Authority. Ministry of Defence (8 Units), Egypt 2013, 6,000 m³/d RO
 Cairo, Egypt 2013, 1,500 m³/d RO
 El Salam, Egypt 2013, 700 m³/d RO
 Arco Sur, Cartagena, Spain 2012, 30,000 m³/d

EPC Contractor and O&M Contractor

NABQ SWRO, Sharm El-Sheikh, Egypt 2023, 12,000 m³/d RO
 East Matrouh SWRO Plant, Marsa Matrouh, Egypt 2021, 65,000 m³/d RO
 NCIC Ain Sokhna phase 4, Ain Sokhna, Egypt 2021, 32,000 m³/d RO
 Ras Sedr SWRO plant, Ras Sedr, Egypt 2021, 30,000 m³/d RO
 Taba SWRO Plant, Taba, Egypt 2021, 10,000 m³/d RO
 Ain Sokhna phase 2, Ain Sokhna, Egypt 2018, 100,000 m³/d RO
 Ain Sokhna phase 3, Ain Sokhna, Egypt 2018, 70,000 m³/d RO
 Abu Zenima, Egypt 2018, 20,000 m³/d RO
 Dahab SWRO plant, Dahab, Egypt 2018, 15,000 m³/d RO
 NCIC Ain Sokhna phase 1, Ain Sokhna, Egypt 2016, 32,000 m³/d RO
 Remelah I & II, Matrouh, Marsa Matrouh, Egypt 2014, 48,000 m³/d RO

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Plant Supplier (Desal) and Operator

Desalination Plant, Point Lisas, Trinidad and Tobago 2012, 272,520 m³/d RO

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Plant Supplier (Reuse)

Lions Gate Secondary WWTP, Vancouver, Canada 2017, 102,000 m³/d

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Shuaibah 3 IWP, Saudi Arabia 2022, 600,000 m³/d RO
Yanbu Phase 4, Saudi Arabia 2021, 450,000 m³/d RO
SC Bluepower FGD WW ZLD, South Korea 2019, 864 m³/d RO
Shin-Seocheon Power Plant FGD WW ZLD, South Korea 2019, 648 m³/d RO
Shoaiiba Phase 4, Saudi Arabia 2017, 400,000 m³/d RO
Youngheung Power Plant FGD WW ZLD, South Korea 2017, 1,248 m³/d RO
Yanbu Ph. 3, Yanbu, Saudi Arabia 2016, 550,070 m³/d MSF
Doha SWRO Desalination Plant Ph.1, Kuwait City, Kuwait 2016, 227,100 m³/d RO
Youngdong Power Plant FGD WW ZLD, South Korea 2016, 120 m³/d RO
Al Ansab WWTP - Expansion, \N, Oman 2015, 32,000 m³/d MBR
Jeddah Ph. 3, Saudi Arabia 2013, 240,030 m³/d RO

Design Engineer and Equipment Supplier

Minera Escondida Water Supply Expansion Project, Antofagasta, Chile 2017, 72,000 m³/d RO

EP Contractor

BAPCO Med, Bahrain 2018, 67,782 m³/d MED
Song Hau 1 Power Plant FGD WW ZLD, Vietnam 2018, 312 m³/d RO
Obra -C Power Plant FGD WW ZLD, India 2018, 288 m³/d RO
Escondida Water Supply, Antofagasta, Chile 2013, 220,000 m³/d RO

EPC Contractor and O&M Contractor

Youngheung Power Plant FGD WW ZLD Demonstration, South Korea 2015, 100 m³/d RO
Busan Gijang, Busan, South Korea 2014, 45,460 m³/d RO
Changwon ZLD Demonstration, South Korea 2014, 120 m³/d RO

EPC Contractor, O&M Contractor and Developer

Sharqiyah IWP, Oman 2017, 80,000 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Reuse)

Muswellbrook reuse plant, NSW, Australia 2016, 3,775 m³/d Other / Unknown

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SELECTED REFERENCES

Plant Supplier (Reuse)

El Chaparral WWTP - Expansion, Madrid, Spain 2015, 6,000 m³/d Tertiary treatment
Santa Eulària WWTP - Expansion, Ibiza, Spain 2015, Tertiary treatment
Villapérez WWTP - Expansion, Asturias, Spain 2013, 400,000 m³/d Tertiary treatment
Estiviel WWTP, Toledo, Spain 2012, 70,000 m³/d Tertiary treatment
Algete II WWTP, Spain 2012, 19,000 m³/d Tertiary treatment

DuPont Water Solutions (DesaliTec)



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SELECTED REFERENCES

Equipment Supplier

North Carolina, United States 2021, 1,668 m³/d RO
 Texas, United States 2021, 1,439 m³/d RO
 Mexico 2021, 1,090 m³/d RO
 Germany 2021, 27 m³/d RO
 Malaysia 2020, 16,352 m³/d RO
 Peru 2020, 11,447 m³/d RO
 Colorado, United States 2020, 3,815 m³/d RO
 Florida, United States 2020, 2,616 m³/d RO
 Illinois, United States 2020, 2,180 m³/d RO
 Australia 2020, 1,989 m³/d RO
 Nebraska, United States 2020, 1,635 m³/d RO
 New Hampshire, United States 2020, 1,471 m³/d RO
 Iraq 2020, 1,362 m³/d RO
 Mexico 2020, 1,362 m³/d RO
 New Jersey, United States 2020, 1,253 m³/d RO
 Guatemala, Guatemala 2020, 1,090 m³/d RO
 Georgia, United States 2020, 1,035 m³/d RO
 Pennsylvania, United States 2020, 981 m³/d RO
 Pennsylvania, United States 2020, 817 m³/d RO
 Florida, United States 2020, 763 m³/d RO
 Illinois, United States 2020, 681 m³/d RO
 Honduras 2020, 681 m³/d RO
 New Mexico, United States 2020, 545 m³/d RO
 United Kingdom 2020, 381 m³/d RO
 Colombia 2020, 381 m³/d RO
 Maryland, United States 2020, 272 m³/d RO
 Georgia, United States 2020, 272 m³/d RO
 Texas, United States 2020, 272 m³/d RO
 Minnesota, United States 2020, 109 m³/d RO
 Illinois, United States 2020, 81 m³/d RO
 California, United States 2020, 81 m³/d RO
 California, United States 2020, 54 m³/d RO
 California, United States 2019, 6,541 m³/d RO
 Mexico 2019, 4,905 m³/d RO
 India 2019, 3,815 m³/d RO
 Peru 2019, 3,270 m³/d RO
 California, United States 2019, 2,725 m³/d RO
 Peru 2019, 2,044 m³/d RO
 Arizona, United States 2019, 1,744 m³/d RO
 Mississippi, United States 2019, 1,635 m³/d RO
 Illinois, United States 2019, 1,635 m³/d RO
 California, United States 2019, 1,635 m³/d RO
 Tennessee, United States 2019, 1,362 m³/d RO
 Chicago, United States 2019, 1,362 m³/d RO

Illinois, United States 2019, 1,362 m³/d RO
 Iowa, United States 2019, 1,090 m³/d RO
 Massachusetts, United States 2019, 899 m³/d RO
 Massachusetts, United States 2019, 817 m³/d RO
 Ireland 2019, 763 m³/d RO
 Pennsylvania, United States 2019, 545 m³/d RO
 Florida, United States 2019, 327 m³/d RO
 India 2019, 272 m³/d RO
 Virginia, United States 2019, 272 m³/d RO
 Alabama, United States 2019, 54 m³/d RO
 Ireland 2019, 0 m³/d RO
 Alabama, United States 2019, 0 m³/d RO
 Georgia, United States 2019, 0 m³/d RO
 Michigan, United States 2019, 0 m³/d RO
 Mexico 2019, 0 m³/d RO
 Florida, United States 2019, 0 m³/d RO
 Peru 2018, 6,541 m³/d RO
 Canada 2018, 4,905 m³/d RO
 Egypt 2018, 4,197 m³/d RO
 Virginia, United States 2018, 2,725 m³/d RO
 Texas, United States 2018, 2,452 m³/d RO
 Malaysia 2018, 2,398 m³/d RO
 Finland 2018, 1,635 m³/d RO
 India 2018, 1,635 m³/d RO
 New York, United States 2018, 1,635 m³/d RO
 Iowa, United States 2018, 1,362 m³/d RO
 California, United States 2018, 817 m³/d RO
 Namibia 2018, 545 m³/d RO
 Calgary, Canada 2018, 408 m³/d RO
 New Jersey, United States 2018, 272 m³/d RO
 Illinois, United States 2018, 272 m³/d RO
 Switzerland 2018, 0 m³/d RO
 Missouri, United States 2018, 0 m³/d RO
 Puerto Rico 2018, 0 m³/d RO
 Ohio, United States 2017, 19,623 m³/d RO
 Illinois, United States 2017, 4,088 m³/d RO
 Australia 2017, 3,597 m³/d RO
 Mexico 2017, 2,452 m³/d RO
 Malaysia 2017, 2,398 m³/d RO
 Arizona, United States 2017, 1,907 m³/d RO
 Texas, United States 2017, 1,635 m³/d RO
 Mexico 2017, 1,635 m³/d RO
 Kansas, United States 2017, 1,090 m³/d RO
 Netherlands 2017, 1,090 m³/d RO
 California, United States 2017, 1,090 m³/d RO
 Florida, United States 2017, 817 m³/d RO
 New York, United States 2017, 817 m³/d RO
 California, United States 2017, 545 m³/d RO
 Minnesota, United States 2017, 545 m³/d RO
 California, United States 2017, 545 m³/d RO
 Illinois, United States 2017, 545 m³/d RO
 North Carolina, United States 2017, 545 m³/d RO
 California, United States 2017, 294 m³/d RO
 Chile 2017, 272 m³/d RO
 Louisiana, United States 2017, 272 m³/d RO
 Italy 2017, 81 m³/d RO

India 2017, 54 m³/d RO
 Michigan, United States 2017, 0 m³/d RO
 North Dakota, United States 2017, 0 m³/d RO
 India 2017, 0 m³/d RO
 Illinois, United States 2016, 6,541 m³/d RO
 Nevada, United States 2016, 4,360 m³/d RO
 Illinois, United States 2016, 2,452 m³/d RO
 Brazil 2016, 1,817 m³/d RO
 Peru 2016, 1,771 m³/d RO
 Pakistan 2016, 1,635 m³/d RO
 Mexico 2016, 1,090 m³/d RO
 Turkey 2016, 1,090 m³/d RO
 California, United States 2016, 817 m³/d RO
 Arizona, United States 2016, 817 m³/d RO
 Indiana, United States 2016, 817 m³/d RO
 Mexico 2016, 545 m³/d RO
 California, United States 2016, 545 m³/d RO
 Australia 2016, 545 m³/d RO
 Bolivia 2016, 545 m³/d RO
 Israel 2016, 545 m³/d RO
 Nigeria 2016, 0 m³/d RO
 Agriculture, IL, United States 2015, 4,900 m³/d RO
 Beer Brewery, Tanzania 2015, 3,270 m³/d RO
 Auto Manufacturer, CA, United States 2015, 545 m³/d RO
 Power Supplier, CA, United States 2015, 273 m³/d RO
 Agriculture, TX, United States 2015, 273 m³/d RO
 Cosmetics Manufacturer, Mexico City, Mexico 2015, 273 m³/d RO
 Agriculture, CA, United States 2015, 82 m³/d RO
 University, TX, United States 2015, 82 m³/d RO
 Brewery, South Africa 2015, 68 m³/d RO
 Chemicals, China 2015, 9 m³/d RO
 China 2015, 4 m³/d RO
 F&B Manufacturer, United States 2015, RO
 Mobile RO, United States 2014, 4,900 m³/d RO
 Pulp and Paper Manufacturer, United States 2014, 2,180 m³/d RO
 Food & Beverage Manufacturer, United States 2014, 1,680 m³/d RO
 Pulp and Paper Manufacturer, Mexico 2014, 1,089 m³/d RO
 Major OEM, United States 2014, 552 m³/d RO
 Food & Beverage Manufacturer, Mexico 2014, 408 m³/d RO
 Mid American Steel, OK, United States 2014, 240 m³/d RO
 Food & Beverage Manufacturer, Tajikistan 2014, 100 m³/d RO
 Food & Beverage Manufacturer, Kazakhstan 2014, 100 m³/d RO
 Large Municipal Water Treatment, United States 2014, 100 m³/d RO
 Food & Beverage Manufacturer, United States 2014, 100 m³/d RO
 Raanana Municipal, Israel 2013, 2,400 m³/d RO
 Desalitech agricultural customer, United States 2013, 1,640 m³/d RO
 Desalitech industrial customer, Israel 2013, 1,500 m³/d RO
 Kittansett Golf Club, MA, United States 2013, 550 m³/d RO
 Desalitech industrial customer, Israel 2013, 250 m³/d RO
 Desalitech industrial customer, India 2013, 200 m³/d RO
 YWT - cooling towers & boilers, Israel 2013, 192 m³/d RO
 Kind Love, CO, United States 2013, 100 m³/d RO
 Caribbean Retrofit Demo 2012, 700 m³/d RO
 Dead Sea -EPT, Israel 2012, 600 m³/d RO
 Layne Christensen, United States 2012, 336 m³/d RO
 SGP Demo, Singapore 2012, 192 m³/d RO
 Ma'agan Michael, Israel 2011, 1,500 m³/d RO

Palmachim, Israel 2010, 250 m³/d RO
 ADM 2, United States, 6,541 m³/d RO
 ADM 3, United States, 550 m³/d RO
 Steel Mill, OK, United States, 270 m³/d RO
 Agriculture Company, OH, United States, 204 m³/d RO
 ADM 1, United States, 160 m³/d RO
 Agriculture, IN, United States, 82 m³/d RO
 Demo Unit, OH, United States, 82 m³/d
 Pulp and Paper, Lima, Peru, 74 m³/d RO
 CA, USA, NM, United States, 68 m³/d RO
 Brewery, GA, United States, 36 m³/d RO
 Auto Manufacturing, CA, United States, 23 m³/d RO
 TX, United States, 17 m³/d RO
 Power Generation, CA, United States, 12 m³/d RO
 CA, United States, 11 m³/d RO
 Agriculture Company, CA, United States, 7 m³/d RO
 Agriculture, CA, United States, 4 m³/d RO
 Municipal Reuse, CA, United States, 4 m³/d RO
 UTEP, United States, 4 m³/d RO
 Agriculture Company, United States, 4 m³/d RO
 Multiple Locations, RO
 Massachussetts, USA, Massachussetts, United States, 0 m³/d RO

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Plant Supplier (Reuse)

Alguasas WWTP, Spain 2012, 15,000 m³/d UV

Econity



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Technology Provider

Songsan Green City Wastewater Treatment Plant, Songsan, South Korea, 84,000 m³/d

Incheon City Chungla Kongchon Water Reclamation Plant, Incheon, South Korea, 65,000 m³/d

Incheon City Yongjong Songsan Water Reclamation Plant, Incheon, South Korea, 30,000 m³/d

Okchon Wastewater Treatment Plant, Okcheon, South Korea, 18,000 m³/d

Cheonan Wastewater Treatment Plant (Phase 2), Cheonan-si, South Korea, 70,000 m³/d

Asan New-city Wastewater Treatment Plant, Asan-si, South Korea, 45,000 m³/d

Hwanggujicheon Wastewater Treatment Plant, Suwon-si, South Korea, 45,000 m³/d

EcoDeltaCity Wastewater Treatment Plant, Busan-si, South Korea, 45,000 m³/d

Bomok Wastewater Treatment Plant, Seogwipo-si, South Korea, 30,000 m³/d

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Plant Supplier

Coca Cola Andina - Santiago, Santiago, Quilicura, Chile 2023, 3,578 m³/d MBR

Reciclar, Santiago, Lampa, Chile 2022, 216 m³/d MBR

Carozzi MBR - Nos Santiago, Santiago, Nos, Chile 2020, 1,300 m³/d MBR

SQM, Antofagasta, Chile 2020, 406 m³/d

SQM brine recovery, Antofagasta, Chile 2019, 356 m³/d RO

Quellaveco Salveani Camp - RO Plant, Moquegua, Peru 2019, 336 m³/d RO

SQM WWTP Reuse, Antofagasta, Chile 2019, 70 m³/d UF

Effluent Plant, Port Coloso, Chile 2018, 6,912.0 UF

Process & Potable Water Plant, Quellaveco, Peru 2018, 1,440 m³/d RO

Quellaveco Mine Cooling Water System & Papujune Camp - RO Plant, Moquegua, Peru 2018, 1,030 m³/d RO

Solid-Liquid Separation Plant, CODELCO, Potrerillos, Chile 2018, 204 m³/d Other / Unknown

Quellaveco Mine Area Campsite - RO Plant, Moquegua, Peru 2018, 84 m³/d RO

El Toro II, Alto Hospicio, Iquique, Chile 2017, 1,800 m³/d NF

ECSA MBR, Santiago, Chile 2017, 600 m³/d MBR

El Carmelo, Chile 2016, 64,800 m³/d Other / Unknown

Solid-Liquid Separation Plant, Angloamerican, Chagres, Chile 2015, 168.0 Other / Unknown

Colun Planta verde, La Union, Los Lagos, Chile 2014, 24 m³/d RO

Las Bambas, Peru 2012, 240 m³/d RO

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Plant Supplier (Reuse)

Alguazas WWTP, Alguazas, Spain 2012, 15,000 m³/d UV

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SELECTED REFERENCES

EPC Contractor

Reggane Nord Development GTE Service Water and Demineralized Water & De-oxygenation Package, Reggane, Algeria 2017, 343 m³/d RO

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SELECTED REFERENCES

Developer

Dakhla, Morocco 2018, 74,845 m³/d RO

Barka, Oman 2015, 281,000 m³/d RO

Mirfa, United Arab Emirates 2014, 140,000 m³/d RO

EPC Contractor

China 2016, 12,432 m³/d RO

Qatar 2015, 15,000 m³/d RO

Enviro Control Pvt. Ltd



www.envirowater.in

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EPC Contractor

Bamroli reuse project, Dindoli, India 2012, 40,000 m³/d RO
Surat industrial STP upgrade, Surat, India 2017, 101,000 m³/d
Tertiary treatment
Bamroli reuse project expansion, Bamroli, India 2017, 35,000 m³/d
RO

Enviro Water Minerals



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SELECTED REFERENCES

Technology Provider: Full Recovery Desalination

El Paso Seawater Full Recovery Desalination® project, El Paso,
Texas, U.S.A. 2015, 2.4 MGD RO

Essel Infra Projects



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Developer

Gujarat, India 2018, 100,000 m³/d RO

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SELECTED REFERENCES

Plant Owner

DeCo, Hoek, Zeeland, Netherlands 2019, 8,400 m³/d RO
Demin Water Plant Botlek, Rotterdam, Zuid Holland, Netherlands,
38,400 m³/d RO
Dow Benelux, Terneuzen, Netherlands, 25,200 m³/d RO
Demin Water Plant Baanhoek, Dordrecht, Netherlands, 3,600 m³/d
RO
DWP Maasvlakte, Rotterdam, Zuid Holland, Netherlands, 19,200
m³/d RO
DWP BASF, Antwerp, Belgium, 14,400 m³/d RO
DWP Pergem, Rotterdam, Zuid Holland, Netherlands, 14,400 m³/d
RO
MBR Terneuzen, Terneuzen, Zeeland, Netherlands, 12,000 m³/d
MBR
MRO13, MRO14, Hoek, Zeeland, Netherlands, 4,800 m³/d RO
PWP Amsterdam, Amsterdam, North Holland, Netherlands, 3,840
m³/d RO

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SELECTED REFERENCES

Plant Supplier (Reuse)

Zanjan WWTP - Expansion, Zanjan, Zanjan Province, Iran 2015,
40,000 m³/d

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EPC Contractor

Asaluyeh, Asaluyeh, Bushehr Province, Iran 2017, 7,500 m³/d MED

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Zanjan WWTP - Expansion, Zanjan, Zanjan Province, Iran 2015, 40,000 m³/d

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Plant Supplier (Reuse)

Valle de Güímar WWTP, Tenerife, Spain 2017, 7,000 m³/d Tertiary treatment

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EPC Contractor

Zuluf Water Treatment Plant, Saudi Arabia 2023, 185,000 m³/d
Rio Paraguay, Paraguay 2023, 168,000 m³/d
Salalah IWP, Oman 2021, 120,000 m³/d RO
Ghubrah 3 IWP, Oman 2020, 300,000 m³/d RO
Barka 5 IWP, Oman 2020, 100,000 m³/d RO
Riachuelo System Lot II- Pre-Treatment Plant, Buenos Aires, Argentina 2019, 2,332,800 m³/d Other / Unknown
Yenikapi Waste Water Treatment Plant, Istanbul, Turkey 2018, 450,000 m³/d
Shoaiiba 3 Expansion II, Saudi Arabia 2018, 250,000 m³/d RO
Salalah RO Desalination Plant, Oman 2018, 114,000 m³/d RO

Shuaibah, Saudi Arabia 2017, 250,000 m³/d RO
Mirfa IWPP, United Arab Emirates 2014, 238,640 m³/d MSF
Salalah, Oman 2017, 113,600 m³/d RO

Atakoy Waste Water Treatment Plant, Istanbul, Turkey 2016, 260,000 m³/d

Jebel Ali M1, M2, M3, Dubai, United Arab Emirates 2012, 636,452 m³/d MSF

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SELECTED REFERENCES

Technology Provider

Argentina 2023, 4,464 m³/d RO
Argentina 2023, 1,113 m³/d RO
Argentina 2023, 600 m³/d RO
Argentina 2023, 576 m³/d RO
Argentina 2023, 432 m³/d RO
Argentina 2023, 360 m³/d RO
Argentina 2023, 240 m³/d RO
CO₂ Stripping for Eramine Sudamericana S.A., Argentina 2022, 43,113 m³/d Other / Unknown
Brine Oxidation for Eramine Sudamericana S.A., Argentina 2022, 41,760 m³/d ED
Niroflex UF/BWRO for EGAT Steel Factory, Egypt 2022, 9,600 m³/d
Argentina 2022, 2,640 m³/d RO
Ultrafiltration for BRF SEROPÉDICA, Brazil 2022, 1,000 m³/d
Brazil 2022, 999 m³/d
Argentina 2022, 720 m³/d RO
Reverse Osmosis for Frio Industrias Argentinas S.A., Argentina 2022, 360 m³/d RO
Argentina 2022, 360 m³/d RO
Ultrafiltration for MS Patagonia / Cerro Vanguardia, Argentina 2022, 343 m³/d
Reverse Osmosis for MS Patagonia / Cerro Vanguardia, Argentina 2022, 240 m³/d RO
Brazil 2022, 94 m³/d RO
Reverse Osmosis for MARIO NEJAMKIN, Argentina 2022, 90 m³/d RO
Argentina 2022, 90 m³/d RO
DAF for IWSI + Egyptian Ministry of Housing, Egypt 2021, 40,000 m³/d Other / Unknown
Ultrafiltration for SEARA SMO, Brazil 2021, 3,600 m³/d
Brazil 2021, 3,600 m³/d
TIon Exchange WTP for Minera Exar, Argentina 2021, 2,592 m³/d Other / Unknown
Niroflex UF for Vinhar Construction, Philippines 2021, 1,500 m³/d
1 x NIROBOX SW-XL, Anguilla 2021, 1,000 m³/d RO
1 x NIROBOX SW-XL, Barbados 2021, 1,000 m³/d RO
1 x NIROBOX SW-XL, Saint Lucia 2021, 1,000 m³/d RO
Reverse Osmosis for BRF CONCÓRDIA, Brazil 2021, 960 m³/d RO
Ion Exchange for Ghezan Hnos, Argentina 2021, 206 m³/d Other / Unknown

- Multimedia Filter for L&A Ingenieria, Argentina 2021, 48 m³/d
 Ion Exchange for Organización Asesora Industrial, Argentina 2021, 36 m³/d Other / Unknown
 Ion Exchange for Ecolab Argentina, Argentina 2021, 24 m³/d Other / Unknown
 Ozonation System for Laboratorio Drag Pharma, Chile 2021, 24 m³/d Other / Unknown
 SWRO for Compesa, Brazil 2020, 1,728 m³/d RO
 Ion Exchange for VASA, Argentina 2020, 1,056 m³/d Other / Unknown
 2 x Niroflex MF for Community Water and Sanitation Agency/Ghana, Endwa-Aponsie-Brofoyedur-Akonfodi, Ghana 2020, 960 m³/d
 Reverse Osmosis for IVESS, Argentina 2020, 864 m³/d RO
 Ozonation System for Aguas SRL, Argentina 2020, 840 m³/d Other / Unknown
 Niroflex MF for Community Water and Sanitation Agency/Ghana, Asamankese-Achiase, Ghana 2020, 720 m³/d
 Niroflex MF for Community Water and Sanitation Agency/Ghana, Assin Praso (Manso-Jameso Nkwanta), Ghana 2020, 600 m³/d
 AKPH SUBIN (61), Efiefieso-Subin-Ameyaw-Akwaboso, Ghana 2020, 600 m³/d
 SUPH SUBIN (62), Efiefieso-Subin-Ameyaw-Akwaboso, Ghana 2020, 600 m³/d
 Niroflex MF for Community Water and Sanitation Agency/Ghana, Mankranso, Ghana 2020, 480 m³/d
 Ozonation System for Fischetti SRL, Argentina 2020, 480 m³/d Other / Unknown
 Activated Carbon Filter for Río Cordillerano, Argentina 2020, 144 m³/d Other / Unknown
 Ozonation System for Roemmers, Argentina 2020, 144 m³/d Other / Unknown
 GAC+2 Stage BWRO for OF OZ, Israel 2020, 132 m³/d RO
 Ion Exchange for Ghezan Hnos, Argentina 2020, 120 m³/d Other / Unknown
 Ion Exchange for Gerdau, Brazil 2019, 3,360 m³/d Other / Unknown
 Activated Carbon Filter for Fía SA, Argentina 2020, 60 m³/d
 Ion Exchange for Ghezan Hnos, Argentina 2020, 60 m³/d Other / Unknown
 Ion Exchange for Ghezan Hnos, Argentina 2020, 60 m³/d Other / Unknown
 Ion Exchange for Ghezan Hnos, Argentina 2020, 42 m³/d Other / Unknown
 Ozonation System for Molino Cañuelas, Argentina 2020, 36 m³/d Other / Unknown
 Ozonation System for Roemmers, Argentina 2020, 24 m³/d Other / Unknown
 Ion Exchange for Eramine Sudamericana S.A., Argentina 2019, 9,768 m³/d Other / Unknown
 Activated Carbon Filter WTP for DVS Construcciones SA, Argentina 2019, 6,240 m³/d
 Mixed Beds WTP for DVS Construcciones SA, Argentina 2019, 6,240 m³/d Other / Unknown
 5 X NIROBOX-SW-XL, Abu Dhabi, United Arab Emirates 2019, 5,000 m³/d
 Ultrafiltration for CSP, Brazil 2019, 4,800 m³/d
 Self-cleaning Disc Filter or Evonik, Brazil 2019, 3,600 m³/d Other / Unknown
 Softener for CPKELCO, Brazil 2019, 840 m³/d Other / Unknown
 Ultraviolet for Coca-Cola Femsa, Argentina 2019, 600 m³/d Other / Unknown
 Ozone Generator for Roemmers, Argentina 2019, 288 m³/d Other / Unknown
 Ultrafiltration WTP for Agua Potable de Jujuy, Argentina 2019, 144 m³/d
 Ozonation System WTP for Agua Potable de Jujuy, Argentina 2019, 144 m³/d Other / Unknown
 Contact Tank for Emprenor SRL, Argentina 2019, 96 m³/d Other / Unknown
 Ozonation System for Atina Comercial, Argentina 2019, 36 m³/d Other / Unknown
 Reverse Osmosis for Bemis Argentina SAU, Argentina 2019, 24 m³/d RO
 Nirobox units, Egypt 2018, 12,000 12 RO
 Multimedia Filters WTP for Aguas Bonaerenses S.A., Argentina 2018, 3,240 m³/d
 Ultraviolet WTP for Aguas Bonaerenses S.A., Argentina 2018, 3,240 m³/d Other / Unknown
 BWRO for Fuentes Renovables de Energía S.A., Argentina 2018, 3,216 m³/d RO
 Ultraviolet for Compañía Salud S.A., Uruguay 2018, 2,880 m³/d Other / Unknown
 Ultrafiltration WTP for Genelba Plus, Argentina 2018, 2,652 m³/d
 Activated Carbon Filter WTP for Alimentos de Soja - ADES, Argentina 2018, 2,400 m³/d
 Ultrafiltration WTP for Alimentos de Soja - ADES, Argentina 2018, 2,400 m³/d
 Ultrafiltration WTP for Alimentos de Soja - ADES, Argentina 2018, 2,090 m³/d
 Retrofitting UF/RO for Solar, Brazil 2018, 1,968 m³/d
 Ion Exchange WTP for Alimentos de Soja - ADES, Argentina 2018, 1,680 m³/d Other / Unknown
 Ultrafiltration WTP for Fuentes Renovables de Energía S.A., Argentina 2018, 1,488 m³/d
 Ozonation System for FEMSA (Planta Alcorta), Argentina 2018, 1,440 m³/d Other / Unknown
 Self-Cleaning Disc Filter for Nestlé, Brazil 2018, 1,440 m³/d Other / Unknown
 Ion Exchange for La Campagnola, Argentina 2018, 1,200 m³/d Other / Unknown
 Reverse Osmosis for CCA Necochea, Argentina 2018, 720 m³/d RO
 Desmineralization for Nestlé, Brazil 2018, 720 m³/d Other / Unknown
 Activated Carbon Filter for Nestlé, Brazil 2018, 720 m³/d
 Activated Carbon Filter for Nestlé, Brazil 2018, 624 m³/d
 Ultraviolet for Coca Cola de Argentina, Argentina 2018, 600 m³/d Other / Unknown
 Activated Carbon Filter for Ball, Brazil 2018, 480 m³/d
 Ultraviolet for laboratorio Bernabó, Argentina 2018, 480 m³/d Other / Unknown
 Ultrafiltration WTP for BASF, Argentina 2018, 294 m³/d
 Ultrafiltration for Minera San Cristobal SA, Bolivia 2018, 278 m³/d
 EDI WTP for Fuentes Renovables de Energía S.A., Argentina 2018, 240 m³/d ED
 Reverse Osmosis for Mina Coimolache, Peru 2018, 240 m³/d RO
 Multimedia Filters for Coca Cola de Argentina, Argentina 2018, 192 m³/d
 Reverse Osmosis DP for Lestar Química, Argentina 2018, 192 m³/d RO
 EDI WTP for Genelba Plus, Argentina 2018, 144 m³/d ED
 Ultraviolet for Genelba Plus, Argentina 2018, 144 m³/d Other / Unknown
 Reverse Osmosis DP WTP for BASF, Argentina 2018, 120 m³/d RO
 Ion Exchange for Lican Paraguay S.A., Argentina 2018, 96 m³/d Other / Unknown

- Activated Carbon Filter for Pemahue, Argentina 2018, 84 m³/d
- Activated Carbon Filter for Jesús Loyola, Argentina 2018, 83 m³/d
- Multimedia Filters WTP for Alimentos de Soja - ADES, Argentina 2018, 74 m³/d
- Ozonization System for Hielo Polarito, Argentina 2018, 48 m³/d Other / Unknown
- Ion Exchange for La Yungere, Argentina 2018, 48 m³/d Other / Unknown
- Activated Carbon Filter for Borneo Cerveza Artesanal, Argentina 2018, 45 m³/d
- Activated Carbon Filter for Química Mar del Plata SA, Argentina 2018, 31 m³/d
- Ultrafiltration WTP for Chongón, Ecuador 2017, 51,840 m³/d
- 5 X NIROBOX SW-XL, Mauritania 2017, 5,000 m³/d
- Reverse Osmosis for Minera del Altiplano, Salta, Argentina 2017, 3,000 m³/d RO
- Ultrafiltration WTP for Interagua LTDA, Guayaquil, Ecuador 2017, 2,880 m³/d
- Reverse Osmosis for Aguas Bonaerenses, Buenos Aires, Argentina 2017, 2,400 m³/d RO
- Reverse Osmosis WTP or Gandules, Sullana, Peru 2017, 2,400 m³/d RO
- DP Reverse Osmosis for Central Térmica Barker, Barker, Argentina 2017, 2,294 m³/d RO
- DP Reverse Osmosis for Central Térmica Villa María, Córdoba, Argentina 2017, 2,294 m³/d RO
- EDI for Central Térmica Villa María, Córdoba, Argentina 2017, 2,179 m³/d ED
- 2 X NIROBOX SW-XL, Mexico 2017, 2,000 m³/d RO
- Reverse Osmosis for Central Térmica Renova, Santa Fe, Argentina 2017, 1,776 m³/d RO
- EDI for Central Térmica Renova, Santa Fe, Argentina 2017, 1,680 m³/d ED
- Reverse Osmosis for Ingenio Bella Vista, Tucumán, Argentina 2017, 1,440 m³/d RO
- Ozonization System WTP or Nutreco Alimentos, Buenos Aires, Argentina 2017, 1,104 m³/d Other / Unknown
- Reverse Osmosis for Embotelladoras Chilenas Unidas SA, Santiago de Chile, Chile 2017, 960 m³/d RO
- Reverse Osmosis for Jaureguy SAICYA, Buenos Aires, Argentina 2017, 960 m³/d RO
- DP Reverse Osmosis for Genneia, Bragado, Argentina 2017, 840 m³/d RO
- EDI for Genneia, Bragado, Argentina 2017, 840 m³/d ED
- Italy, Rocafuerte 2017, 216 m³/d RO
- EcoBox WTP for Minera La Arena, Huamachuco, Peru 2017, 185 m³/d Other / Unknown
- DP Reverse Osmosis WTP for Basf Argentina, Santa Fe, Argentina 2017, 120 m³/d RO
- DP Reverse Osmosis WTP for Minera Exar, Jujuy, Argentina 2017, 120 m³/d RO
- Reverse Osmosis for Intel, Israel 2016, 6,000 m³/d RO
- Ultraviolet for Danisco Argentina S.A., Córdoba, Argentina 2016, 4,800 m³/d Other / Unknown
- Multimedia Filters for Aguas Bonaerenses S.A. Planta Lincoln, Buenos Aires, Argentina 2016, 3,432 m³/d
- Reverse Osmosis for Aguas Bonaerenses S.A. Planta Lincoln, Buenos Aires, Argentina 2016, 2,400 m³/d RO
- Reverse Osmosis for ARCOR SAIC, Córdoba, Argentina 2016, 2,160 m³/d RO
- Wastewater Treatment Plant for Cervecería y Maltería Quilmes, Zarate, Argentina 2016, 1,200 m³/d
- DP Reverse Osmosis for Bina Pharma, Buenos Aires, Argentina 2016, 120 m³/d RO
- Filtration Media for Ewy Walter, Buenos Aires, Argentina 2016
- UF, BWRO for PDVSA, Venezuela 2015, 200,000 m³/d
- Ultrafiltration for PBB Polisor S.A., Buenos Aires, Argentina 2015, 180,000 m³/d
- Ultraviolet for Reginald Lee S.A., Buenos Aires, Argentina 2015, 8,400 m³/d Other / Unknown
- Ultraviolet for EMBOL S.A., Santa Cruz de la Sierra, Bolivia 2015, 3,840 m³/d Other / Unknown
- Ozonization System for Montevideo Refrescos, Montevideo, Uruguay 2015, 1,488 m³/d Other / Unknown
- Ultrafiltration for Meranol SACI, Buenos Aires, Argentina 2015, 1,212 m³/d
- BWRO for Multinational Force & Observers, Egypt 2015, 1,200 m³/d RO
- Reverse Osmosis for Tenerife Inversiones, Lima, Peru 2015, 1,200 m³/d RO
- Reverse Osmosis for Meranol SACI, Buenos Aires, Argentina 2015, 840 m³/d RO
- Ultrafiltration for Saint Gobain, Rio de Janeiro, Argentina 2015, 360 m³/d
- Reverse Osmosis for EMBOL S.A., La Paz, Bolivia 2015, 240 m³/d RO
- Ultrafiltration for Sherwim Williams, Sumaré, Argentina 2015, 120 m³/d
- Ultrafiltration for Rassini RNA, Sao Paulo, Argentina 2015, 67 m³/d
- Reverse Osmosis for Sherwim Williams, Sumaré, Argentina 2015, 62 m³/d RO
- Ultrafiltration for Reginald Lee S.A., Buenos Aires, Argentina 2014, 3,840 m³/d
- Activated Carbon Filter for Reginald Lee S.A., Buenos Aires, Argentina 2014, 2,400 m³/d
- Ozonization System for Embotelladoras Chilenas Unidas, Santiago, Chile 2014, 2,040 m³/d
- 35 X Mobile Units - Filtration for Angola Border Police, Angola 2014, 1,680 m³/d
- MMF + BWRO for PIM (Pool Equipment Inventory), Alabama, United States 2014, 1,440 m³/d
- Ozonization System for Spal Industria Brasileira de Bebidas, Itabirito, Argentina 2014, 1,200 m³/d
- Guinea, Senegal, Nigeria, Burkina Faso, Togo Mobile Units, Guinea 2014, 1,104 m³/d RO
- Multimedia Filters for Generación Frias S.A., Santiago del Estero, Argentina 2014, 1,104 m³/d
- Ultrafiltration for Embotelladoras Chilenas Unidas, Santiago, Chile 2014, 960 m³/d
- Disc Filtration, UF, 2 Pass RO for P.I.M, Alabama, United States 2014, 720 m³/d
- Arsenic Removal for Generación Frias S.A., Santiago del Estero, Argentina 2014, 600 m³/d
- MMF + AC + AS + BWRO for Milubar, Akko, Israel 2014, 240 m³/d
- Arsenic Removal for EMBOL S.A, Río Seco, Bolivia 2013, 2,400 m³/d Other / Unknown
- Ozone Generator for Eco de los Andes (Nestlé), Mendoza, Argentina 2013, 960 m³/d Other / Unknown
- DAF + UF + SWRO for Azenco-Azerbaijan, Azerbaijan 2013, 600 m³/d
- SWRO for Bangladesh - Police Mobile, Bangladesh 2013, 480 m³/d RO
- MMF + BWRO + EDI for Neshor Ramla, Ramle, Israel 2013, 312 m³/d
- 5 x Mobile Units - RO for Bangdadesh Border Police, Bangladesh 2013, 240 m³/d RO
- Ultrafiltration for Hospital Sirio Libanes, Sao Paulo, Argentina 2013, 240 m³/d
- BWRO for Ytung-Pardes Hana, Pardes Hana, Israel 2013, 192 m³/d RO
- SWRO for EDT - Cyprus, Cyprus, Greece 2013, 150 m³/d RO
- Ultrafiltration for Odebrecht, Sao Paulo, Argentina 2013, 120 m³/d
- 2 Pass RO + EDI for Arauco Pulp & Paper, Chile 2012, 3,984 m³/d RO
- Clarifier + MF + UF + BWRO + EDI for Termosierra, Colombia 2012, 1,080 m³/d
- Reverse Osmosis for La Jolla, Asia, Peru 2012, 864 m³/d RO

Reverse Osmosis for Cerro Vanguardia, Puerto San Julián, Argentina 2012, 720 m³/d RO
 Reverse Osmosis for Ady Resources Limited, Juluy, Argentina 2012, 432 m³/d RO
 Reverse Osmosis for Aji No Moto, Callao, Peru 2012, 360 m³/d RO
 Reverse Osmosis for Conarco Argentina, Buenos Aires, Argentina 2012, 240 m³/d RO
 Reverse Osmosis for Ansaldi, Santa Fe, Argentina 2012, 120 m³/d RO
 Reverse Osmosis for Shopping Amapá, Macapá, Brazil 2012, 110 m³/d RO
 Ultrafiltration for Renault Argentina S.A., Córdoba, Argentina 2012, 84 m³/d

Plant Supplier

São Miguel do Oeste, Brazil 2021, 3,600 m³/d Other / Unknown
 Taichung Desalination WWTP, Taiwan 2021, 3,000 m³/d RO
 Matadero Central (MACESA), Nicaragua 2021, 2,640 m³/d RO
 Fernandez Hnos, Argentina 2021, 54 m³/d RO
 Productos Pampeanos SRL, Argentina 2021, 36 m³/d RO
 Ecolab Argentina, Argentina 2021, 24 m³/d RO
 Maninver SRL, Argentina 2021, 24 m³/d RO
 Compañía Industrial Frutihortícola, Argentina 2021, 19 m³/d RO
 IWSI + Egyptian Ministry of Housing, Egypt 2020, 12,000 m³/d RO
 South Sinai Co./ Sharm El Sheikh, Egypt 2020, 12,000 m³/d RO
 Ataq Power plant, Egypt 2020, 4,500 m³/d RO
 Al Nour Bottling, Egypt 2020, 1,200 m³/d RO
 Tetrapack, Argentina 2020, 1,200 m³/d RO
 Confidential, Egypt 2020, 1,000 m³/d RO
 Taba Hotel, Egypt 2020, 1,000 m³/d RO
 Community Water and Sanitation Agency/Ghana, Ghana 2020, 960 m³/d RO
 IVESS, Argentina 2020, 864 m³/d RO
 Sky link ltd, Ghana 2020, 840 m³/d RO
 Minera las Bambas, Peru 2020, 600 m³/d RO
 Nouwebaa Hotel, Egypt 2020, 500 m³/d RO
 Negev, Israel 2020, 480 m³/d RO
 Pampa Energía, Argentina 2020, 384 m³/d RO
 TECHINT / Eneva, Brazil 2020, 336 m³/d RO
 VASA, Argentina 2020, 324 m³/d RO
 Cartocor, Argentina 2020, 264 m³/d RO
 Compesa, Brazil 2020, 72 m³/d RO
 IVESS, Argentina 2020, 36 m³/d RO
 South Africa 2020, 24 m³/d RO
 Select Energy, United States 2020, 15 m³/d RO
 Mario Nejamkin, Argentina 2020, 12 m³/d RO
 Química Garvey, Argentina 2020, 12 m³/d RO
 Campos de Frutilla SRL, Argentina 2020, 6 m³/d RO
 Failde Iván, Argentina 2020, 6 m³/d RO
 IVESS, Argentina 2020, 6 m³/d RO
 Universidad del Chaco Austral, Argentina 2020, 6 m³/d RO
 Federal Government of Ivory Coast, Abidjan, Côte d'Ivoire 2019, 150,000 m³/d RO
 IWSI + Egyptian Ministry of Housing, Egypt 2019, 40,000 m³/d RO
 State Water Commission of Baja California, Mexico, Mexico 2019, 22,000 m³/d RO
 Brazil 2019, 12,000 m³/d Other / Unknown

Argentina 2019, 11,088 m³/d RO
 Ma'ayan Zvi, Israel 2019, 10,500 m³/d MABR
 Wastewater Treatment Plant, Lima, Peru 2019, 9,600 m³/d RO
 Brazil 2019, 6,960 m³/d RO
 SV Project PS3, Cambodia 2019, 6,100 m³/d MABR
 Marina 1, Egypt 2019, 5,000 m³/d RO
 Marina 2, Egypt 2019, 5,000 m³/d RO
 Paracas, Peru 2019, 5,000 m³/d RO
 Middle East RO, Middle East 2019, 5,000 m³/d RO
 SV Project-PS1, Cambodia 2019, 4,500 m³/d MABR
 SV Project-PS2, Cambodia 2019, 4,500 m³/d MABR
 G&F, Taiwan 2019, 4,000 m³/d RO
 Brazil 2019, 3,240 m³/d RO
 Brazil 2019, 3,240 m³/d RO
 Bimini, Bahamas 2019, 3,000 m³/d RO
 Liaoning Panjin, China 2019, 3,000 m³/d MABR
 Colbeck, Jamaica 2019, 2,580 m³/d MABR
 Brazil 2019, 2,400 m³/d RO
 Argentina 2019, 2,400 m³/d RO
 Buenos Aires, Argentina 2019, 2,268 m³/d RO
 Argentina 2019, 2,112 m³/d RO
 Marbella, Egypt 2019, 2,000 m³/d RO
 Berazategui, Argentina 2019, 1,730 m³/d RO
 Argentina 2019, 1,548 m³/d RO
 Haiphong 1, Vietnam 2019, 1,500 m³/d RO
 Haiphong 2, Vietnam 2019, 1,500 m³/d RO
 Perth 2, Jamaica 2019, 1,400 m³/d MABR
 G&F, Taiwan 2019, 1,200 m³/d RO
 Paraguay 2019, 1,200 m³/d RO
 Nangan and Dong Islands, Taiwan 2019, 1,200 m³/d RO
 Siping, China 2019, 1,200 m³/d MABR
 Mianzhu, China 2019, 1,200 m³/d MABR
 Wuzhi, China 2019, 1,200 m³/d MABR
 New Mexico, United States 2019, 1,130 m³/d RO
 Project for Hotel & Resort, Antigua and Barbuda 2019, 1,000 m³/d RO
 Cebu, Philippines 2019, 1,000 m³/d RO
 Power Plant, Puerto Rico 2019, 1,000 m³/d RO
 Zhenfeng, China 2019, 1,000 m³/d MABR
 Zhengfeng Baiceng Town, China 2019, 1,000 m³/d MABR
 Panjing WWTP, China 2019, 1,000 m³/d MABR
 Arsi University, Ethiopia 2019, 1,000 m³/d MABR
 Argentina 2019, 912 m³/d RO
 Xie Lin Gang, Yiyang, Hunan, China 2019, 800 m³/d MABR
 Montevideo, Uruguay 2019, 792 m³/d RO
 Brazil 2019, 768 m³/d RO
 Argentina 2019, 768 m³/d Other / Unknown
 Argentina 2019, 720 m³/d RO
 Friendship, Jamaica 2019, 670 m³/d MABR
 Lin'An Zhejiang, China 2019, 600 m³/d MABR
 Huoqiu County 10, China 2019, 600 m³/d MABR
 Huoqiu County 11, China 2019, 600 m³/d MABR
 Huoqiu County 12, China 2019, 600 m³/d MABR
 Huoqiu County 13, China 2019, 600 m³/d MABR
 Huoqiu County 14, China 2019, 600 m³/d MABR
 Huoqiu County 15, China 2019, 600 m³/d MABR
 Project for Hotel & Resort, Philippines 2019, 500 m³/d RO
 Baoding Jinxianhe, China 2019, 500 m³/d MABR

- Huoqiu County 1, China 2019, 500 m³/d MABR
 Huoqiu County 2, China 2019, 500 m³/d MABR
 Huoqiu County 3, China 2019, 500 m³/d MABR
 Huoqiu County 4, China 2019, 500 m³/d MABR
 Huoqiu County 5, China 2019, 500 m³/d MABR
 Huoqiu County 6, China 2019, 500 m³/d MABR
 Huoqiu County 7, China 2019, 500 m³/d MABR
 Huoqiu County 8, China 2019, 500 m³/d MABR
 Huoqiu County 9, China 2019, 500 m³/d MABR
 Beijing Railway, China 2019, 500 m³/d MABR
 Brazil 2019, 480 m³/d RO
 Zenity Shucheng, China 2019, 450 m³/d MABR
 Sta Rosa Laguna, Philippines 2019, 400 m³/d MABR
 Westgrove, Philippines 2019, 400 m³/d MABR
 Alviera, Porac Pampanga, Philippines 2019, 400 m³/d MABR
 Santa Rosa Laguna, Philippines 2019, 400 m³/d MABR
 Buenos Aires, Argentina 2019, 324 m³/d RO
 Mekelle University, Tigray, Ethiopia 2019, 320 m³/d MABR
 Yanlan Xiong County, China 2019, 310 m³/d MABR
 Luoyang, China 2019, 300 m³/d MABR
 Rio de Janeiro, Brazil 2019, 288 m³/d RO
 Medellin, Colombia 2019, 288 m³/d RO
 Sorocaba, Brazil 2019, 240 m³/d RO
 Lima, Peru 2019, 240 m³/d RO
 Argentina 2019, 240 m³/d RO
 Lio Palawan, Philippines 2019, 200 m³/d MABR
 Sicogon, Iloilo, Philippines 2019, 200 m³/d MABR
 Ningxia Helan, China 2019, 200 m³/d MABR
 Hubei Highway 44, China 2019, 200 m³/d MABR
 Hubei Highway 45, China 2019, 200 m³/d MABR
 Hubei Highway 46, China 2019, 200 m³/d MABR
 Hubei Highway 47, China 2019, 200 m³/d MABR
 Hubei Highway 48, China 2019, 200 m³/d MABR
 Hubei Highway 49, China 2019, 200 m³/d MABR
 Hubei Highway 50, China 2019, 200 m³/d MABR
 Hubei Highway 51, China 2019, 200 m³/d MABR
 Hubei Highway 52, China 2019, 200 m³/d MABR
 Hubei Highway 53, China 2019, 200 m³/d MABR
 Hubei Highway 54, China 2019, 200 m³/d MABR
 Hubei Highway 55, China 2019, 200 m³/d MABR
 Hubei Highway 56, China 2019, 200 m³/d MABR
 Hubei Highway 57, China 2019, 200 m³/d MABR
 Hubei Highway 58, China 2019, 200 m³/d MABR
 Hubei Highway 59, China 2019, 200 m³/d MABR
 Hubei Highway 60, China 2019, 200 m³/d MABR
 Hubei Highway 61, China 2019, 200 m³/d MABR
 Hubei Highway 62, China 2019, 200 m³/d MABR
 Hubei Highway 63, China 2019, 200 m³/d MABR
 Hubei Highway 64, China 2019, 200 m³/d MABR
 Hubei Highway 65, China 2019, 200 m³/d MABR
 Hubei Highway 66, China 2019, 200 m³/d MABR
 Hubei Highway 67, China 2019, 200 m³/d MABR
 Bolivia 2019, 194 m³/d RO
 Buenos Aires, Argentina 2019, 192 m³/d RO
 Minneapolis, United States 2019, 192 m³/d RO
 Argentina 2019, 192 m³/d RO
 Marinelli SA, Argentina 2019, 192 m³/d RO
 Argentina 2019, 192 m³/d RO
 REPI Housing Development, Ethiopia 2019, 185 m³/d MABR
 Argentina 2019, 168 m³/d RO
 Brazil 2019, 168 m³/d RO
 Argentina 2019, 168 m³/d RO
 Buenos Aires, Argentina 2019, 161 m³/d RO
 Argentina 2019, 144 m³/d RO
 Argentina 2019, 144 m³/d RO
 Ambev, Brazil 2019, 135 m³/d RO
 LNG Worksite, Texas, United States 2019, 125 m³/d MABR
 Argentina 2019, 120 m³/d RO
 Brazil 2019, 120 m³/d RO
 Posorja, Ecuador 2019, 120 m³/d MABR
 Rosario, Argentina 2019, 120 m³/d RO
 Hubei Highway 37, China 2019, 100 m³/d MABR
 Hubei Highway 38, China 2019, 100 m³/d MABR
 Hubei Highway 39, China 2019, 100 m³/d MABR
 Hubei Highway 40, China 2019, 100 m³/d MABR
 Hubei Highway 41, China 2019, 100 m³/d MABR
 Hubei Highway 42, China 2019, 100 m³/d MABR
 Hubei Highway 43, China 2019, 100 m³/d MABR
 Argentina 2019, 90 m³/d RO
 Tonglu Meirong, China 2019, 80 m³/d MABR
 Kingston, Jamaica 2019, 80 m³/d MABR
 One Thousand Trails, United States 2019, 70 m³/d MABR
 Pilar, Argentina 2019, 60 m³/d MABR
 Argentina 2019, 54 m³/d RO
 Argentina 2019, 54 m³/d RO
 Argentina 2019, 54 m³/d RO
 Hangzhou Hongyu, China 2019, 50 m³/d MABR
 Argentina 2019, 48 m³/d RO
 Inner Mongolia, China 2019, 35 m³/d MABR
 Wuwei County, China 2019, 30 m³/d MABR
 Argentina 2019, 24 m³/d RO
 San Luis, Argentina 2019, 24 m³/d RO
 Argentina 2019, 24 m³/d RO
 Argentina 2019, 24 m³/d RO
 Chivilvoy, Argentina 2019, 24 m³/d RO
 Argentina 2019, 24 m³/d RO
 Argentina 2019, 24 m³/d RO
 Liaoning Antu, China 2019, 20 m³/d MABR
 Beijing Highway, China 2019, 20 m³/d MABR
 Hubei Highway 36, China 2019, 20 m³/d MABR
 Argentina 2019, 18 m³/d RO
 Hubei Highway 1, China 2019, 15 m³/d MABR
 Hubei Highway 2, China 2019, 15 m³/d MABR
 Hubei Highway 3, China 2019, 15 m³/d MABR
 Hubei Highway 4, China 2019, 15 m³/d MABR
 Hubei Highway 5, China 2019, 15 m³/d MABR
 Hubei Highway 6, China 2019, 15 m³/d MABR
 Hubei Highway 7, China 2019, 15 m³/d MABR
 Hubei Highway 8, China 2019, 15 m³/d MABR
 Hubei Highway 9, China 2019, 15 m³/d MABR
 Hubei Highway 10, China 2019, 15 m³/d MABR
 Hubei Highway 11, China 2019, 15 m³/d MABR
 Hubei Highway 12, China 2019, 15 m³/d MABR
 Hubei Highway 13, China 2019, 15 m³/d MABR
 Hubei Highway 14, China 2019, 15 m³/d MABR
 Hubei Highway 15, China 2019, 15 m³/d MABR

- Hubei Highway 16, China 2019, 15 m³/d MABR
Hubei Highway 17, China 2019, 15 m³/d MABR
Hubei Highway 18, China 2019, 15 m³/d MABR
Hubei Highway 19, China 2019, 15 m³/d MABR
Hubei Highway 20, China 2019, 15 m³/d MABR
Hubei Highway 21, China 2019, 15 m³/d MABR
Hubei Highway 22, China 2019, 15 m³/d MABR
Hubei Highway 23, China 2019, 15 m³/d MABR
Hubei Highway 24, China 2019, 15 m³/d MABR
Hubei Highway 25, China 2019, 15 m³/d MABR
Hubei Highway 26, China 2019, 15 m³/d MABR
Hubei Highway 27, China 2019, 15 m³/d MABR
Hubei Highway 28, China 2019, 15 m³/d MABR
Hubei Highway 29, China 2019, 15 m³/d MABR
Hubei Highway 30, China 2019, 15 m³/d MABR
Hubei Highway 31, China 2019, 15 m³/d MABR
Hubei Highway 32, China 2019, 15 m³/d MABR
Hubei Highway 33, China 2019, 15 m³/d MABR
Hubei Highway 34, China 2019, 15 m³/d MABR
Hubei Highway 35, China 2019, 15 m³/d MABR
Mar del Plata, Argentina 2019, 12 m³/d RO
Argentina 2019, 12 m³/d RO
Mar de Plata, Argentina 2019, 12 m³/d RO
Argentina 2019, 12 m³/d RO
Buenos Aires, Argentina 2019, 12 m³/d RO
Buenos Aires, Argentina 2019, 12 m³/d RO
Buenos Aires, Argentina 2019, 7 m³/d RO
Pergamino, Argentina 2019, 6 m³/d RO
Argentina 2019, 6 m³/d RO
Santiago, Chile 2019, 6 m³/d RO
Genelba Plus, Argentina 2018, 13,608 m³/d RO
Philippines 2018, 1,000 m³/d RO
Philippines, Cebu 2018, 500 m³/d RO
Manila, Philippines 2018, 400 m³/d MBR
Sanofi, Brazil 2018, 192 m³/d RO
Mining, Peru 2018, 187 m³/d RO
Hefei, Hefei Province, China 2018, 40 m³/d Tertiary treatment
Island of Mayotte (Petite Terre), Mayotte 2017, 3,000 m³/d RO
Quzhou, Zhejiang Province China, China 2017, 40 m³/d Tertiary treatment
San Quintin, Mexico 2016, 21,600 m³/d RO
Richards Bay, South Africa 2016, 10,000 m³/d RO
South Africa 2016, 10,000 m³/d RO
Isla de Cedros, Mexico 2016, 400 m³/d RO
Bordeaux, Saint Thomas, U.S. Virgin Islands 2016, 100 m³/d Tertiary treatment
Mozambique 2016, 50 m³/d RO
Vietnam 2016, 30 m³/d RO
Municipalidad de Caleta Olivia, Santa Cruz, Argentina 2015, 12,000 m³/d RO
Kiryat Gat, Israel 2015, 5,040 m³/d RO
STX, Chile 2015, 2,400 m³/d RO
Arca Tucumán, Tucumán, Argentina 2015, 1,680 m³/d RO
Guanacaste, Costa Rica 2015, 1,500 m³/d RO
Municipalidad de Puerto Deseado, Santa Cruz, Argentina 2015, 1,500 m³/d RO
Ivess Jaureguay, Buenos Aires, Argentina 2015, 960 m³/d RO
Aguas Danone de Argentina, Buenos Aires, Argentina 2015, 768 m³/d RO
Administración SAO, Santa Cruz de la Sierra, Bolivia 2015, 720 m³/d RO
Massalin Particulares, Buenos Aires, Argentina 2015, 720 m³/d RO
Ivess Jumillano, Buenos Aires, Argentina 2015, 720 m³/d RO
Generación Frias S.A., Santiago del Estero, Argentina 2015, 600 m³/d RO
Camelot Brasil, Fortaleza, Brazil 2015, 600 m³/d RO
Embotelladoras Chilenas Unidas, Santiago, Chile 2015, 480 m³/d RO
Ivess Rosmino y CIA, Buenos Aires, Argentina 2015, 480 m³/d RO
Braun Medical S.A., Buenos Aires, Argentina 2015, 288 m³/d RO
Sancor La Carlota, Santa Fe, Argentina 2015, 268 m³/d RO
Pepsico - Dilexis Plant, San Juan, Argentina 2015, 264 m³/d RO
PIM (Pooled Equipment Inventory Co.), United States 2015, 240 m³/d RO
Petroquímica de Cuyo, Buenos Aires, Argentina 2015, 192 m³/d RO
Nestlé Magdalena, Buenos Aires, Argentina 2015, 192 m³/d RO
Cementos Pacasmayo, Piura, Peru 2015, 192 m³/d RO
Establecimiento Las Marias, Corrientes, Argentina 2015, 144 m³/d RO
Laboratorio Arboreto, Juiz de fora, Brazil 2015, 120 m³/d RO
Cisper, Sao Paulo, Brazil 2015, 120 m³/d RO
BASF, Santa Fe, Argentina 2015, 108 m³/d RO
Rizobacter Argentina S.A., Buenos Aires, Argentina 2015, 96 m³/d RO
Dead Sea Works, Dead Sea, Israel 2014, 6,000 m³/d RO
Mobile unit, Memphis, TN, United States 2014, 5,450 m³/d RO
Solar, Fortaleza, Brazil 2014, 3,600 m³/d RO
Solar, Fortaleza, Brazil 2014, 3,600 m³/d RO
Reginald Lee S.A., Buenos Aires, Argentina 2014, 2,400 m³/d RO
Fideicomiso Funes City, Santa Fe, Argentina 2014, 1,200 m³/d RO
Shimal II, Azerbaijan 2014, 1,200 m³/d RO
Fideicomiso Funes City, Santa Fe, Argentina 2014, 1,200 m³/d RO
ROWPU, Maryland, United States 2014, 1,000 m³/d RO
Reginald Lee S.A., Buenos Aires, Argentina 2014, 600 m³/d Other / Unknown
Gramadal, Huarmey, Peru 2014, 576 m³/d RO
Estancias del Lago, Durazno, Uruguay 2014, 336 m³/d RO
Clariant, Rio de Janeiro, Brazil 2014, 324 m³/d RO
Interfarma, Buenos Aires, Argentina 2014, 216 m³/d NF
Guardian do Brasil Vidros Planos Ltda., São Paulo, Brazil 2014, 211 m³/d EDI
Bunge Campana, Buenos Aires, Argentina 2014, 192 m³/d RO
Guardian do Brasil Vidros Planos Ltda., São Paulo, Brazil 2014, 192 m³/d RO
Obras Sanitarias, Buenos Aires, Argentina 2014, 192 m³/d RO
Guardian do Brasil Vidros Planos Ltda., São Paulo, Brazil 2014, 192 m³/d RO
Bunge Campana, Buenos Aires, Argentina 2014, 192 m³/d RO
Embotelladora Puyehue, Puyehue, Chile 2014, 120 m³/d RO
Pri-Chen, Kfar Kara, Israel 2014, 96 m³/d RO
LDC Citrus, Bebedouro, Brazil 2013, 1,728 m³/d RO
Cementos Pascamayo SAA, Piura, Peru 2013, 1,200 m³/d RO
Petrobrás, Puerto San Martín, Argentina 2013, 960 m³/d RO
Inca Tops, Arequipa, Peru 2013, 624 m³/d RO
MFO North Camp, North Sinai, Egypt 2013, 600 m³/d RO
CCU, Temuco, Chile 2013, 600 m³/d RO
Nestlé, Lima, Peru 2013, 432 m³/d RO
Constructora de Cuyo, Mendoza, Argentina 2013, 360 m³/d RO
Guaracachi S.A., Santa Cruz, Bolivia 2013, 240 m³/d EDI
Larnaca port, Larnaca, Cyprus 2013, 150 m³/d RO
GoldCorp, Perito Moreno, Argentina 2013, 120 m³/d RO
Vista Club, Angola 2013, 96 m³/d RO

Science & Tech. park, Sheyang, China 2013, 30 m³/d RO
 Pacific Rubiales Energy, Colombia 2012, 80,000 m³/d RO
 Granos Bolivia, Santa Cruz, Bolivia 2012, 840 m³/d RO
 Israel Aircraft Industries, Israel 2012, 750 m³/d RO
 Rio Lluta, Chile 2012, 720 m³/d RO
 Peugeot, Brazil 2012, 672 m³/d RO
 Aguas Danone de Argentina, Mendoza, Argentina 2012, 600 m³/d RO
 Israel Electricity Corporation, Israel 2012, 600 m³/d RO
 Bunge, San Gerónimo, Argentina 2012, 480 m³/d RO
 Nestlé, Gran Buenos Aires, Argentina 2012, 288 m³/d RO
 Mitrelli, Angola 2012, 288 m³/d RO
 Guaracachi S.A., Santa Cruz, Bolivia 2012, 264 m³/d RO
 San Cristobal, Bolivia 2012, 240 m³/d RO
 Salta Refrescos, Salta, Argentina 2012, 216 m³/d RO
 Holcim, Latacunga, Ecuador 2012, 144 m³/d RO
 Condominio Paso Chico, Lurín, Lima, Peru 2012, 124 m³/d RO
 Shamba Wells, Kenya 2012, 120 m³/d RO
 Daunia, Australia 2012, 48 m³/d RO
 Nahariya Hospital, Israel 2012, 36 m³/d RO
 Townsville, Australia 2012, 36 m³/d RO

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Plant Supplier (Reuse)

Bundi STP, Bundi, Rajasthan, India 2016, 8,000 m³/d

GES (Global Environmental Solutions Ltd.)



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Plant Supplier (Reuse)

Akko WWTP - Upgrade, \N, Israel 2012, 19,600 m³/d Tertiary treatment

GRC Quantity Surveyors



Australia +61 7 3878 6222

www.grcqs.com/people

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Plant Supplier (Reuse)

Australia Pacific LNG Water Treatment Facility, Brisbane, Australia 2012, 80,000 m³/d RO

Greentech Environmental Co. Ltd.



www.greentechenv.com

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Systems Integrator

Jincheng Wastewater Expansion Project (Phase 2), Jincheng, China 2022, 120,000 m³/d MBR

Jincheng Wastewater Expansion Project (Phase 1), Jincheng, China 2022, 35,000 m³/d MBR

Zijin Mining Wastewater ZLD and Resource Recycling Project, Urad Rear Banner, China 2022, 20,000 m³/d RO

Lihuayi Weiyuan Chemical Wastewater Reuse Project, Dongying, China 2022, 2,000 m³/d RO

Equipment Contractor

Tangshan Nanpu Economic and Technological Development Zone
WWTP Upgrading BOT Project, Hebei Province, China 2019,
100,000 m³/d UF

Zhang Jia Gang No. 3 Drinking Water Plant Expansion Project,
Hebei Province, China 2019, 100,000 m³/d NF

Shizuishan No. 5 Drinking Water Plant Project Upgrade, Ningxia
Province, China 2019, 27,000 m³/d RO

Shandong Rongcheng Bahe RO Advanced Treatment Plant Project,
Shandong Province, China 2019, 15,000 m³/d RO

Bailonggang WWTP Project Upgrade, Shanghai, China 2019,
5,000 m³/d RO

Wuxi Xincheng Water Plant 2 Wastewater Reuse Project, Jiangsu
Province, China 2018, 170,000 m³/d UF

Zhongning No.1 WWTP Upgrading Project, Ningxia, China 2018,
30,000 m³/d MBR

Huaibei Xulou Drinking Plant and Ancillary Piping Project,
Weifang, Shandong Province, China 2018, 21,500 m³/d NF

Plant Supplier

Hengling WWTP Phase I Upgrade Project, Shenzhen, Guangdong
Province, China 2018, 200,000 m³/d UF

Weifang Industrial Park WWTP Upgrade Project, Weifang,
Shandong Province, China 2018, 15,000 m³/d UF

Taizhou Jiaojiang Wastewater Reuse Project Phase II, Taizhou,
Zhejiang Province, China 2016, 38,000 m³/d UF

Yuhuan Wastewater Reuse Project, Yuhuan, Zhejiang Province,
China 2016, 20,000 m³/d UF

Zhongwei Zero Liquid Discharge Project, Zhongwei, Ningxia,
China 2016, 13,500 m³/d RO

Fuxin Wastewater Reuse Project, Fuxin, Liaoning Province, China
2015, 42,500 m³/d RO

Iran steel plant Reuse Water Treatment, Kerman, Iran 2015, 15,000
m³/d RO

Beijing Daoxianghu Wastewater Reuse project, Beijing, China
2014, 80,000 m³/d UF

Taizhou Jiaojiang Wastewater Reuse Project, Taizhou, Zhejiang
Province, China 2014, 18,000 m³/d RO

Grupo SETA, S.L.



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EPC Contractor

Nicaragua, 2015, 3,500 m³/d RO

Managua, Nicaragua 2014, 2,800 m³/d RO

GS Inima Environment, S.A.



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EPC Contractor

Boadilla del Monte WWTP, Improvements and Wastewater
Pumping Station, Madrid, Spain 2020, 75,000 m³/d Other /
Unknown

SWRO de Atacama, Atacama, Chile 2020, 38,880 m³/d RO

SWRO Djerba, Djerba, Tunisia 2019, 50,000 m³/d RO

Ain M' Lia WWTP, Wilaya de Oum el Bouaghi, Algeria 2018, 16,820
m³/d Other / Unknown

EDAR de Tenés, Tenés, Algeria 2018, 8,500 m³/d Other / Unknown

Lagares WWTP Vigo, Expansion and Upgrading, Vigo, Spain 2017,
230,688 m³/d Other / Unknown

IDAM de Atacama, Chile 2017, 38,880 m³/d RO

Ensenada SWRO, Ensenada, Baja California, Mexico 2017, 21,600
m³/d RO

El Franco WWTP - 2nd stage, Madrid, Spain 2017, 6,924 m³/d
Other / Unknown

Radomiro Tomic, Chile 2015, 72,600 m³/d RO

D'Jerba, Tunisia 2014, 50,000 m³/d RO

Sao José Dos Campos WWTP, Sao Paulo, Sao Paulo, Brazil 2014,
34,927 m³/d Other / Unknown

EDAR Segovia, Segovia, Spain 2013, 41,274 m³/d Other / Unknown

Campos de Jordao WWTP, Sao Paulo, Brazil 2013, 18,438 m³/d
Other / Unknown

Ensenada, Baja California, Mexico 2012, 21,600 m³/d RO

Hialeah, Miami Dade, FL, United States 2010, 40,000 m³/d RO

Estación Depuradora de Aguas Residuales de Algeciras, Algeciras,
Spain, 51,000 m³/d UV

Estación Depuradora de Aguas Residuales de Rejas, Madrid, Spain,
17,280 m³/d UV

General Contractor

Albufera Sur WWTP, Valencia, Spain 2022, 20,173 Other /
Unknown

Crevillente WWTP, Valencia, Spain 2022, 9,000 Other / Unknown

Alicante Lote 2 WWTPs, Valencia, Spain 2022, 5,500 Other /
Unknown

Crispiana WWTP, Vitoria, Spain 2021, 185,000 Other / Unknown

Cuenca del Guadalquivir WWTP, Sevilla, Spain 2021, 125,000
Other / Unknown

Aznalcazar WWTP, Sevilla, Spain 2021, 125,000 Other / Unknown

Castilleja WWTP, Sevilla, Spain 2021, 125,000 Other / Unknown

SWRO Daesan, Daesan, South Korea 2021, 100,000 m³/d RO

Krinpan WWTP, La Rioja, Spain 2021, 4,200 Other / Unknown

Casablanca WWTP, La Rioja, Spain 2021, 4,200 Other / Unknown

Lloret de Mar WWTP, Girona, Spain 2019, 33,000 m³/d Other /
Unknown

Aranjuez WWTP, Madrid, Spain 2018, 21,000 m³/d Other /
Unknown

Numancia WWTP, Numancia, Spain 2018, 15,000 Other /
Unknown

Seseña WWTP, Seseña, Spain 2017, 6,682 Other / Unknown

Lagares WWTP, Lagares, Spain 2016, 230,668 m³/d Other /
Unknown

Segovia WWTP, Segovia, Spain 2016, 41,274 m³/d Other / Unknown
 Aznalcollar WWTP & Main Sewer, Sevilla, Spain 2016, 3,228 m³/d Other / Unknown
 Aranjuez WWTP, Aranjuez, Spain 2015, 21,000 Other / Unknown
 San José Dos Campos WWTP, Sao Paulo, Brazil 2012, 12,795 m³/d Other / Unknown
 Font de la Pedra WWTP, Spain, 15,000 m³/d Other / Unknown
 Crevillente WWTP, Valencia, Spain, 9,000 m³/d Other / Unknown
 Roquetas WWTP, Spain, 38,880 Other / Unknown
 IDAM Palmas, Las Palmas, Spain, 35,000 m³/d MED
 Lanzarote IV, Lanzarote, Spain, 20,000 m³/d RO
 El Tablero WWTP, Spain, 12,000 Other / Unknown
 Tenés WWTP, Tenes, Algeria, 8,500 Other / Unknown
 El Franco WWTP, Oviedo, Spain, 6,924 m³/d Other / Unknown
 Ponte da Bahia WWTP, Portugal, 6,834 Other / Unknown

General Contractor and Operator

Aquapolo, Sao Paulo, Brazil 2019, 56,160 Other / Unknown
 SWRO Atacama, Copiapo, Chile 2017, 103,680 m³/d RO
 SWRO Marbella, Marbella, Spain 2014, 55,000 m³/d RO
 Triunfo, Porto Alegre, Brazil 2013, 144,029 Other / Unknown
 Mogi Mirim WWTP, Sao Paulo, Brazil, 25,920 m³/d Other / Unknown

General Contractor, Operator and Developer

Ghubrah III IWP, Muscat, Oman 2020, 300,000 m³/d RO
 Barka V IWP, Oman 2020, 100,000 m³/d RO
 SWRO Los Cabos, Los Cabos, Mexico 2017, 20,736 m³/d RO
 SWRO Ensenada, Ensenada, Mexico 2014, 21,600 m³/d RO
 BWRO Taunton River, Bosotn, United States, 37,854 m³/d RO

Operator

Arroyo de la Miel WWTP, Malaga, Spain, 40,000 m³/d Other / Unknown
 Pilar de la Horadada WWTP, Spain, 18,500 m³/d Other / Unknown

Confidential Client, Kansas, United States 2022, 1.4 MGD NF
 Confidential Client, New York, United States 2022, 1.08 MGD RO
 Confidential Client, Austin, TX, United States 2022, 0.225 MGD UF
 Confidential Client, Texas, United States 2022, 0.225 MGD UF
 Confidential Client, San Diego, CA, United States 2021, 40 MGD UF
 Confidential Client, Escondido, CA, United States 2021, 2 MGD UF
 Confidential Client, California, United States 2018, 6,056 m³/d RO
 Tate Monroe, Ohio, United States 2018, 3,785 m³/d RO
 Confidential Client, Texas, United States 2018, 2,914 m³/d RO
 Confidential Client, Iowa, United States 2018, 2,725 m³/d UF
 Pouch Cove WTP, Newfoundland, Canada 2018, 2,649 m³/d Other / Unknown
 Confidential Client, North Carolina, United States 2018, 2,498 m³/d RO
 Confidential Client, Arizona, United States 2018, 2,271 m³/d RO
 Confidential Client, Indiana, United States 2018, 2,157 m³/d RO
 Pouch Cove WTP, Newfoundland, Canada 2018, 1,892 m³/d RO
 Confidential Client, New-Brunswick, Canada 2018, 1,892 m³/d RO
 Confidential Client, South Dakota, United States 2018, 1,514 m³/d RO
 Confidential Client, Arkansas, United States 2018, 1,514 m³/d RO
 Kuujjuaq, Quebec, Canada 2018, 1,514 m³/d Other / Unknown
 Kuujjuaq, Quebec, Canada 2018, 1,135 m³/d RO
 Cobden WWTP Upgrades, Ontario, Canada 2018, 1,000 m³/d MBR
 Confidential Client, Georgia, United States 2018, 946 m³/d RO
 Saint-Gabriel-de-Rimouski, Quebec, Canada 2018, 560 m³/d NF
 Meyer Ranch MBR, Texas, United States 2018, 378 m³/d MBR
 Confidential Client, North Carolina, United States 2018, 302 m³/d MBR
 Confidential Client, North Carolina, United States 2018, 189 m³/d RO
 Confidential Client, New York, United States 2018, 177 m³/d MBR
 Granbury Water Treatment Plant, Texas, United States 2018, 113 m³/d RO
 Confidential Client, Indiana, United States 2018, 25 m³/d RO
 City of Austin DCP Building WWTP, Texas, United States 2018, 18 m³/d MBR
 Las Virgenes UF/RO Demo Plant, California, United States 2018, 3 m³/d RO
 Valencia LACSD UF-NF Pilot Unit, California, United States 2018, 1 m³/d RO
 Confidential Client, Quebec, Canada 2018, 0 m³/d RO
 Confidential Client, Alberta, Canada 2018, 0 m³/d RO
 Equilibrium Repsol - Trailer, Alberta, Canada 2018, 0 m³/d RO
 WEAS Engineering / Andersons Clymers, Indiana, United States 2018, UF
 Moss Point VFD and Plant upgrades, Mississippi, United States 2018, RO
 San Diego IPR, California, United States 2017, 151,400 m³/d UF
 Confidential Client, Oregon, United States 2017, 6,548 m³/d UF
 Confidential Client, Alberta, Canada 2018, 0 m³/d RO
 Equilibrium Repsol - Trailer, Alberta, Canada 2018, 0 m³/d RO
 WEAS Engineering / Andersons Clymers, Indiana, United States 2018, UF
 Moss Point VFD and Plant upgrades, Mississippi, United States 2018, RO
 San Diego IPR, California, United States 2017, 151,400 m³/d UF
 Confidential Client, Oregon, United States 2017, 6,548 m³/d UF
 City of Beaumont, California, United States 2017, 6,245 m³/d RO
 Bonita Springs Utilities, Inc., Bonita Springs, Florida, United States 2017, 5,678.0 m³/day RO
 Confidential Client, Virginia, United States 2017, 2,649 m³/d MBR

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Desalination Equipment Supplier

Confidential Client, Kentucky, United States 2023, 140.0 gpm RO
 Confidential Client, Iowa, United States 2022, 440.0 gpm RO
 Confidential Client, Nebraska, United States 2022, 260.0 gpm RO
 Confidential Client, Texas, United States 2022, 2.5 MGD RO
 Confidential Client, Nebraska, United States 2022, 1.87 MGD RO

- Confidential Client, Virginia, United States 2017, 2,649 m³/d RO
- Confidential Client, Idaho, United States 2017, 378 m³/d UF
- Confidential Client, New York, United States 2017, 378 m³/d UF
- Confidential Client, New York, United States 2017, 227 m³/d MBR
- Hamlin Beach, New York, United States 2017, 113 m³/d MBR
- University of Iowa, Iowa city, Iowa, United States 2016, 9,463.0 m³/day RO
- Cinco Municipal Utility District Plant #1, Katy, Texas, United States 2016, 7,570.0 m³/day RO
- Frontier Water Systems, San Francisco Bay Area, California, United States 2016, 5,678.0 m³/day RO
- Disraeli, Quebec, Canada 2016, 1,772.0 m³/day NF
- Barrow Utilities and Electric Co-Op, Barrow, Alaska, United States 2016, 1,136.0 m³/day RO
- Sherburn WTP, Sherburn, Texas, United States 2016, 946.0 m³/day RO
- Slate Falls Nation WTP, Slate Falls, Ontario, Canada 2016, 379.0 m³/day NF
- Hydro Quebec - La Romaine, La Romaine, Quebec, Canada 2016, 53 m³/d NF
- Monterey, California, United States 2015, 42,396 m³/d RO
- Cambria, California, United States 2015, 3,218 m³/d RO
- Municipalité de Chambord, Chambord, Quebec, Canada 2015, 1,552 m³/d NF
- John D'or, Alberta, Canada 2015, 1,136 m³/d NF
- Boyer River, Alberta, Canada 2015, 530 m³/d NF
- Meander River, Alberta, Canada 2015, 530 m³/d NF
- Abilene - Possom Kingdom, Abilene, Texas, United States 2014, 16,656 m³/d RO
- Hamby-Abilene, Abilene, Texas, United States 2014, 15,899 m³/d RO
- Craven County, North Carolina, United States 2014, 7,571 m³/d RO
- Abilene - Hargeshheimer, Tuscola, Texas, United States 2014, 5,678 m³/d RO
- Lower Valley, Grand Cayman, Cayman Islands 2014, 4,353 m³/d RO
- Everglades City, Florida, United States 2014, 1,892 m³/d RO
- Liberty, Iowa, United States 2014, 1,325 m³/d RO
- Fort Irwin, California, United States 2014, 916 m³/d NF
- Eastman, Quebec, Canada 2014, 768 m³/d NF
- Eastman, Quebec, Canada 2014, 757 m³/d RO
- Stornoway Mine, Northern Quebec, Quebec, Canada 2014, 492 m³/d RO
- Jack River, Jack River School, Manitoba, Canada 2014, 189 m³/d NF
- Supra-Ledoux-Haiti, Haiti 2014, 151 m³/d RO
- Fort Irwin, California, United States 2014, 76 m³/d RO
- Freeport-Indonesia, Freeport, Indonesia 2014, 49 m³/d RO
- Long Beach, CA, Long Beach, CA, United States 2013, 16,843 m³/d RO
- Calimesa, CA, Calimesa, CA, United States 2013, 8,970 m³/d RO
- J.R. Simplot, Caldwell, Idaho, United States 2013, 5,451 m³/d RO
- Cadwell, ID, Cadwell, ID, United States 2013, 5,450 m³/d RO
- Saint-Tite, QC, Saint-Tite, QC, Canada 2013, 4,905 m³/d NF
- Calgary, AB, Calgary, AB, Canada 2013, 3,815 m³/d NF
- Port Cartier, QC, Port Cartier, QC, Canada 2013, 3,785 m³/d NF
- Emmetsberg, Iowa, United States 2013, 3,270 m³/d RO
- Waterville, Quebec, Canada 2013, 2,990 m³/d RO
- Dunes, Florida, United States 2013, 2,725 m³/d RO
- Hillsboro, ND, Hillsboro, ND, United States 2013, 1,855 m³/d NF
- Spencerville, OH, Spencerville, OH, United States 2013, 1,843 m³/d NF
- Pomona, CA, Pomona, CA, United States 2013, 1,351 m³/d RO
- Calgary, AB, Calgary, AB, Canada 2013, 1,185 m³/d RO
- Minnesota, United States 2013, 870 m³/d RO
- Swan Lake, MB, Swan Lake, MB, Canada 2013, 829 m³/d NF
- Calypso, Ontario, Canada 2013, 817 m³/d RO
- Pike, Alberta, Canada 2013, 574 m³/d RO
- Conklin, AB, Conklin, AB, Canada 2013, 352 m³/d NF
- La Macaza, Quebec, Canada 2013, 341 m³/d NF
- La Macaza, Quebec, Canada 2013, 341 m³/d NF
- Fort McMurray AB, Fort McMurray, AB, Canada 2013, 220 m³/d RO
- West Jefferson, NC, West Jefferson, NC, United States 2013, 163 m³/d RO
- Laval, QC, Laval, QC, Canada 2013, 11 m³/d RO
- Mannington Power Plant, WV, United States 2012, 18,531 m³/d RO
- Linton, ND, Linton, ND, United States 2012, 11,226 m³/d NF
- City of Hillsboro, Hillsboro, ND, United States 2012, 3,706 m³/d RO
- West Olive Power Plant, MI, United States 2012, 2,180 m³/d RO
- Quebec, Canada 2012, 1,703 m³/d NF
- Cal Ponomo, California, United States 2012, 1,351 m³/d RO
- Quebec, Canada 2012, 1,226 m³/d NF
- Calgary, AB, Canada 2012, 1,008 m³/d RO
- Swan Lake, Minnesota, United States 2012, 828 m³/d NF
- Quebec, Canada 2012, 818 m³/d NF
- Quebec, Canada 2012, 791 m³/d NF
- University of Illinois, IL, United States 2012, 545 m³/d RO
- Pointe-Label, Quebec, Canada 2012, 163 m³/d NF
- Pointe-Label, Quebec, Canada 2012, 162 m³/d NF
- Quebec, Canada 2012, 83 m³/d NF
- Quebec, Canada 2012, 26 m³/d RO
- Port Cartier, Quebec, Canada 2012, 11 m³/d RO
- City of Oxnard, CA, United States 2011, 23,656 m³/d RO
- Tertiary UF for Lakeshore Wastewater Co (Innisfil), Ontario, Canada, 67,000 m³/d UF
- Pearland UF WTP, Texas, United States, 46,370 m³/d UF
- Sweetwater RO expansion, San Diego, California, United States, 37,854 m³/d RO
- Marietta WTP, Ohio, United States, 13,638 m³/d RO
- Kronos Varennes RO System, Quebec City, Canada, 9,120 m³/d NF
- Santa Monica - Civic Center, California, United States, 5,455 m³/d RO
- Carmel Area Water District, Carmel, California, United States, 4,542 m³/d RO
- Quincy WWTP RO, Quincy, Washington, United States, 3,785 m³/d RO
- City of Santa Monica SWIP (SMURRF) - RO, California, United States, 2,091 m³/d RO
- Charles Town, West Virginia, United States, 1,364 m³/d MBR
- Morro Bay RO System, California, United States, 645.0 gpm RO
- ETS Intermittent Aeration Upgrade, New Jersey, United States, 546 m³/d MBR
- Elevate Textiles UF RO, Mexico, 375.0 gpm RO
- Lavaltrie Rest Stop MBR, Quebec City, Canada, 114 m³/d MBR
- Quebec, Canada, 87 m³/d NF
- Meliadine Mine MBRS WWTP Expansion, Quebec City, Canada, 83 m³/d MBR
- Saint Cyrille De Wendover, Quebec City, Canada, 34 m³/d NF
- Quebec, Canada, 26 m³/d NF
- Tillman Reuse BWRO Pilot, Los Angeles, California, United States, 19 m³/d RO
- Rio Tinto - Sorel Tracy #1, Quebec, Canada, 10.0 MGD Other / Unknown
- Petit Rocher, New Brunswick, Canada, 0.53527 MGD Other / Unknown

PPPP - Alexandria RO #2, Indiana, United States, 0.25936 MGD Other / Unknown
 PPPP - Leipsic, Ohio, United States, 0.25936 MGD Other / Unknown
 PPPP - Alexandria RO #3, Indiana, United States, 0.100864 MGD Other / Unknown
 Virentia, Quebec, Canada, 0.01 MGD UF
 Innisfil - Tertiary, Ontario, Canada, 0.0 MGD UF
 JBS Foods, Kentucky, United States, 0.0 MGD Other / Unknown
 Rio Tinto - Sorel Tracy #2, Quebec, Canada, 0.0 MGD Other / Unknown

Pilot

Confidential Client, Ontario, Canada 2018, 0 m³/d RO

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Equipment Supplier

Sepia/Carioca FPSO, Brazil 2018, 3,200 m³/d RO
 Neft Badra, Iraq 2018, 960 m³/d Other / Unknown
 SK310 B15 Development, Offshore, Malaysia 2016, 164 m³/d Other / Unknown
 FPSO Marlim 1/Anita Garibaldi MV-33, Offshore, Brazil 2020, 3,200 m³/d RO
 FPSO Buzios V/Almirante Barroso MV-32, Offshore, Brazil 2019, 3,200 m³/d RO
 FPSO Anita Garibaldi MV-33, Offshore, Brazil, 3,200 m³/d RO

Haji Abdullah Alireza & Co., Ltd.



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BOOT Developer

King Abdulaziz International SWRO Desalination Plant, Jeddah, Saudi Arabia, 50,000 m³/d RO
 Rabigh Multi Effect Desalination and Remineralization Plant, Rabigh, Saudi Arabia, 10,000 m³/d MED

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Equipment Supplier: Desalination System

Desalination project of a petrochemical enterprise, Ningbo, Zhejiang, China 2023, 58,080 m³/d RO
 Desalination Project of a chemical enterprise, Dezhou, Shandong, China 2023, 6,720 m³/d RO
 Seawater desalination units of a drilling platform, Tianjing, China 2023, 6,480 m³/d RO
 Desalination Project of a steel enterprise, Anshan, Liaoning, China 2023, 3,600 m³/d RO
 Desalination Project of a chemical enterprise, Jiujiang, Jiangxi, China 2023, 3,600 m³/d RO
 Seawater desalination project, Yantai, Shandong, China 2023, 3,000 m³/d RO
 Reclaimed Water Reuse Project of a chemical enterprise, Dezhou, Shandong, China 2023, 2,880 m³/d RO
 Seawater desalination project of municipality, Oran, Algeria 2022, 300,000 m³/d RO
 Seawater desalination project of a paper company, Tarakan, Indonesia 2022, 50,000 m³/d RO
 Desalination project of a thermal power plant, Datong, Shanxi, China 2022, 2,400 m³/d RO
 Desalination Project of chemical industry, Taixing, Jiangsu, China 2022, 552 m³/d RO

EPC Contractor

Russia Methanol Project Desalination Station Station Project, Russia 2020, 13,680 m³/d Other / Unknown
 Bluestar Adisseo Phase II Desalination Project, Nanjing, Jiangsu, China 2020, 2,400 m³/d RO
 Zhejiang Petrochemical Acid Water Treatment System, Zhoushan, Zhejiang, China 2020, 1,200 m³/d Other / Unknown
 Zhoushan Baisha Island Seawater Desalination Project, Zhoushan, Zhejiang, China 2020, 500 m³/d RO
 Zhejiang Petrochemical Phase II Desalination Project, Zhoushan, Zhejiang, China 2019, 150,000 m³/d RO
 Jiangxi Nanshi Lithium New Material Co., Ltd. Fine Filtration Lithium Carbonate Production Supporting System, China 2018, 1,000 m³/d RO
 East Pole Island Desalination Project, China 2018, 150 m³/d RO
 Zhoushan, China 2017, 80,000 m³/d RO
 GNPD, Mariveles, Philippines 2017, 15,000 m³/d RO
 Hub, Pakistan 2017, 7,200 m³/d RO
 Shengsi, China 2017, 2,000 m³/d RO
 Djibouti, Republic of Djibouti 2017, 100 m³/d RO
 Binhai, China 2016, 47,400 m³/d RO
 Venezuela 2016, 10,000 m³/d RO
 Zhejiang, Daishan, China 2016, 5,000 m³/d RO
 Zhejiang, China 2016, 3,600 m³/d RO
 Tajikistan 2016, 500 m³/d RO
 Daniela, Chad 2016, 480 m³/d RO
 Pakistan 2016, 480 m³/d RO
 Woody Power Plant, Woody, Vietnam 2015, 14,400 m³/d RO

Duyen Hai, Vietnam 2015, 6,720 m³/d RO
 Iran 2014, 150,000 m³/d RO
 Banten, Indonesia 2013, 6,096 m³/d RO
 Dumai, Indonesia 2013, 3,120 m³/d RO
 Yanpet, Saudi Arabia 2013, 3,000 m³/d RO
 Pudingbatu, Philippines 2013, 2,520 m³/d RO
 Dongtuo Luxi Island Seawater Desalination Plant (Phase 1), Wenzhou, Zhejiang, China 2013, 2,500 m³/d RO
 The membrane system for ecological environment management and river remediation of Dongshengmiao mining area in Urad Back Banner County of Inner Mongolia, Urad Back Banner County, Inner Mongolia, China 2012, 12,000 m³/d Other / Unknown
 Textile Wastewater Reuse (Phase 1), Shengzhou City, Zhejiang, China, 50,000 m³/d RO
 Textile Wastewater Reuse (Phase 2), Shengzhou City, Zhejiang, China, 50,000 m³/d RO
 Taizhou Number 2 Power Plant Auxiliary Seawater Desalination, Zhejiang, China, 18,000 m³/d RO
 Hongshan Thermal Power Plant Desalination Project Phase 2, Quanzhou, Fujian, China, 15,600 m³/d RO
 Wastewater treatment and ZLD project, Inner Mongolia, China, 3,600 m³/d ZLD

EPC Contractor, Membrane and Pretreatment Supplier

Ningbo Seawater Desalination System, Ningbo, Zhejiang, China 2022, 12,000 m³/d RO
 Shandong Xinhecheng Chemical Water Treatment System, Weifang, Shandong, China 2022, 9,600 m³/d RO
 Xinte Energy Huaidong Industrial Park Demineralization Project, Hami, Xinjiang, China 2022, 5,232 m³/d RO
 Shandong Xinhecheng Chemical Water Treatment System, Weifang, Shandong, China 2022, 4,800 m³/d RO
 Xinte Energy Huaidong Industrial Park Demineralization Project, Hami, Xinjiang, China 2022, 3,840 m³/d RO
 Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station, Zigong, Sichuan, China 2022, 3,600 m³/d RO
 Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station, Zigong, Sichuan, China 2022, 2,520 m³/d RO
 Yan'an Yaodian Sewage Ultrafiltration System, Yan'an, Shaanxi, China 2021, 50,000 m³/d Other / Unknown
 Jiatong Reclaimed Water Reuse iEPC Project, Nantong, Jiangsu, China 2021, 43,200 m³/d RO
 Binhai Thermal Power Plant, Shaoxing, China 2021, 19,200 m³/d RO
 m³/d RO
 Xinjiang Guanghui Wastewater Capacity Expansion and Emission Reduction Project, Xinjiang, China 2021, 8,952 m³/d RO
 Zhejiang Jiaming Wastewater Reuse Project, Shengzhou, Zhejiang, China 2021, 5,000 m³/d RO
 Taizhou Power Plant Demineralized Water Expansion and Reconstruction EPC Project, Taizhou, Zhejiang, China 2021, 3,600 m³/d RO
 Ningbo Seawater Desalination System, Ningbo, Zhejiang, China 2021, 500 m³/d RO
 Baoding Yindingzhuang Sewage Treatment Plant, Baoding, Heibei, China 2020, 315,000 m³/d Other / Unknown
 Yongjia Hongze Boiler Make-up Water Project, Wenzhou, Zhejiang, China 2020, 6,240 m³/d RO
 Russia Methanol Project Seawater Desalination Station Project, Russia 2020, 5,184 m³/d RO
 Shanxi Jinmei Tianyuan Chemical Co., Ltd. Wastewater Zero Discharge Technical Reform Project, Jincheng, Shanxi, China 2020, 3,600 m³/d RO
 Zhenjiang New Sodium Acid Wastewater Comprehensive Utilization Project, Zhenjiang, Jiangsu, China 2020, 250 m³/d RO
 Ammonium Nitrate Process Condensate Purification Device Project, Indonesia 2020, 144 m³/d ED
 Yantai Juli Wastewater Resources Project, Shandong, China 2019, 5,280 m³/d RO

Lianjiang Nuclear Power Project, Guangzhou, China 2021, 9,600
 Shandong Dongyue Fluorine Silicate Chemical Plant Area Drainage Resource Recycling Project, China 2019, 2,500 m³/d RO
 Nantong Xingchen Cycle Sewage and Recycling Equipment Project, China 2019, 960 m³/d RO
 East Pole Island Seawater Desalination, Zhoushan, Zhejiang, China 2019, 300 m³/d RO
 Hangzhou Meitang Technology Co., Ltd. RO Pure Water System, China 2019, 240 m³/d RO
 Subtropical water desalination (phase I) drought emergency project, Yuhuan, Zhejiang, China 2018, 30,000 m³/d RO
 Jinling group wastewater zero discharge and salt recycling project, Dongying City, Shandong, China 2018, 20,000 m³/d RO
 Indonesian Gorontalo Raw Water Pretreatment and Potable Water Chlorination System, Indonesia 2018, 8,016 m³/d RO
 Heilongjiang NHU Biotech Co.,Ltd Boiler Make-up Water Treatment System, China 2018, 5,760 m³/d RO
 Baosteel Chemical Meishan Branch Coking Wastewater Treatment and Reuse Project RO System, China 2018, 4,800 m³/d RO
 Heilongjiang NHU Biotech Co.,Ltd 909 workshop Deionized Water System, China 2018, 4,320 m³/d RO
 Indonesian Gorontalo sea water desalination system, Indonesia 2018, 4,320 m³/d RO
 Pakistan Gadar Seawater desalination, Pakistan 2018, 3,500 m³/d RO
 Printing and Dyeing Wastewater Membrane Method Advanced Treatment and Reuse Project 2018, 2,400 m³/d RO
 Jiangxi Nanshi Lithium New Material Co., Ltd. Printing and Dyeing Wastewater Membrane Method Advanced Treatment and Reuse Project, China 2018, 2,400 m³/d RO
 Expansion of 14400 Line of 4L Line Water Treatment Project of Dongyue Fluorine Silicone material Co.ltd thermal power plant waste water zero liquid discharge project, Zibo, Shandong, China 2018, 6,500 m³/d RO
 Nongfu Spring Linjiang Project, China 2018, 1,560 m³/d RO
 Iraq Rumaila Combined Cycle Power Plant Project, Iraq 2018, 1,440 m³/d RO
 Heilongjiang NHU Biotech Co.,Ltd 903 workshop RO Water System, China 2018, 1,200 m³/d RO
 Indonesia Kalimantan coal-fired power plant project, Indonesia 2018, 1,200 m³/d Other / Unknown
 Anhui Hanrui New Material Co., Ltd. RO Water Treatment System, China 2018, 1,080 m³/d RO
 Boiler water treatment system, Ghazipur, Bengal, India 2018, 336 m³/d RO
 Foshan City Sanshui District Datang Wastewater Treatment Company Brine separation and reuse pilot project, Foshan City, Guangdong, China, 4,800 m³/d Other / Unknown

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SELECTED REFERENCES

Equipment Supplier: Desalination System

Babcock Ranch R/O Water Treatment Plant, Fort Myers, FL, United States 2021, 500,000 gpd RO

H2GO Water Treatment Plant, Brunswick, NC, United States 2021, 216,000 gpd RO

Dare County North Carolina NRO Treatment Plant, Dare County, NC, United States 2020, 1,300,000 gpd RO

City of Williamsburg, IA Water Treatment Plant, Williamsburg, IA, United States 2020, 1,008,000 gpd RO

City of Sanborn, IA Water Treatment Plant, Sanborn, IA, United States 2020, 702,720 gpd RO

New Carthage Water Treatment Plant, Carthage, IL, United States 2020, 460,800 gpd RO

Iowa Lakes Regional Water, Spencer, IA, United States 2019, 619,200 gpd RO

City of Dunedin, FL Water Treatment Plant, City of Dunedin, FL, United States 2018, 6,400,000 gpd RO

City of Punta Gorda Shell Creek Water Treatment Plant, Punta Gorda, FL, United States 2018, 4,000,000 gpd RO

City of Grimes, IA R/O Water Treatment Plant, Grimes, IA, United States 2018, 2,000,000 gpd RO

Langley Gulch Water Treatment Plant, New Plymouth, ID, United States 2018, 1,944,000 gpd RO

Village of Wellington Water Treatment Plant, Wellington, FL, United States 2018, 1,800,000 gpd RO

City of Adel, IA Water Treatment Plant, Adel, IA, United States 2018, 1,080,000 gpd RO

Lake Panorama Association Water Treatment Plant, Panora, IA, United States 2018, 979,200 gpd RO

City of Hayward, CA Membrane Treatment System, Hayward, CA, United States 2018, 662,000 gpd

Norwood Water Treatment Plant, Miami, FL, United States 2017, 23,000,000 gpd NF

City of Fort Dodge, IA Water Treatment Plant, Fort Dodge, IA, United States 2017, 12,000,000 gpd RO

Sherman, Texas, United States 2017, 37,850 m³/d RO

Miramar East Water Treatment Plant, Miramar, FL, United States 2016, 6,000,000 gpd NF

City of Spring Valley, IL, Spring Valley, IL, United States 2016, 2,233,360 gpd NF

Washington Water Treatment Plant, Washington, IA, United States 2016, 1,762,560 gpd RO

City of West Jefferson, OH Water Treatment Plant, West Jefferson, OH, United States 2016, 668,160 gpd RO

Lee County Green Meadows WTP, Lee County, Florida, United States 2016, 28,388 m³/d RO

Skyco WTP, Dare County, North Carolina, United States 2016, 11,393 m³/d RO

Gasparilla Island Water Assoc., Boca Grande, Florida, United States 2016, 3,596 m³/d RO

City of Grimes WTP, Train 2, Grimes, Iowa, United States 2016, 3,104 m³/d RO

City of West Liberty WTP, West Liberty, Iowa, United States 2016, 2,422 m³/d RO

Lee County Green Meadows Water Treatment Plant, Lee County, FL, United States 2015, 7,500,000 gpd RO

North Liberty Water Treatment Plant, North Liberty, IA, United States 2015, 3,024,000 gpd NF

Skyco Water Treatment Plant, Dare County, NC, United States 2015, 3,011,040 gpd NF

Pella, IA Water Treatment Plant, Pella, IA, United States 2015, 2,160,000 gpd RO

Signal Hill Water Treatment Plant, Signal Hill, CA, United States 2015, 1,693,440 gpd NF

Edisto Beach Water Treatment Plant, Edisto Beach, SC, United States 2015, 1,382,400 gpd RO

Gasparilla Island Water Association, Boca Grande, FL, United States 2015, 950,400 gpd RO

City of West Liberty, IA Water Treatment Plant, West Liberty, IA, United States 2015, 648,000 gpd RO

NCR WTP, Naples, Florida, United States 2015, 45,420 m³/d RO

City of Pella WTP, Pella, Iowa, United States 2015, 8,176 m³/d RO

North Jensen WWTP, Martin County, Florida, United States 2015, 7,570 m³/d RO

Signal Hill WTP, Signal Hill, California, United States 2015, 6,397 m³/d RO

City of Grimes WTP, Train 1, Grimes, Iowa, United States 2015, 3,104 m³/d RO

Babcock Ranch Water System, Babcock Ranch, Florida, United States 2015, 946 m³/d RO

City of Yankton Water Treatment Plant, Yankton, SD, United States 2014, 6,599,520 gpd RO

Tarpon Springs Water Treatment Plant, Tarpon Springs, FL, United States 2014, 6,402,240 gpd RO

City of Hills, IA R/O Water Treatment Plant, Hills, IA, United States 2014, 316,800 gpd RO

Rule, TX Water Treatment Plant, Rule, TX, United States 2014, 86,400 gpd RO

Key Colony Beach R/O System, Key Colony Beach, FL, United States 2013, 100,000 gpd RO

Tarpon Springs WTP, Tarpon Springs, Florida, United States 2013, 24,224 m³/d RO

City of Venice WTP, Venice, Florida, United States 2013, 16,654 m³/d RO

Bermuda Water Works, Bermuda 2013, 2,271 m³/d RO

PWWSO #26, Strong City, Kansas, United States 2013, 1,779 m³/d RO

Clearwater R/O Plant, Clearwater, FL, United States 2012, 3,000,000 gpd RO

City of Labelle Water Treatment Facility, Labelle, FL, United States 2012, 1,500,000 gpd RO

Southern Outer Banks Water Treatment Plant, Corolla, NC, United States 2012, 750,000 gpd RO

Bermuda Waterworks Limited, Bermuda, United States 2012, 600,000 gpd RO

Public Wholesale Water Supply District #26, Strong City, KS, United States 2012, 475,000 gpd RO

Hills Municipal Water, Hills, Iowa, United States 2012, 1,173 m³/d RO

North County Regional WTP Upgrades, Naples, Florida, United States 2017, 45,425 m³/d RO

Green Meadows Water Treatment Plant, Lee County, Florida, United States 2018, 28,391 m³/d RO

City of Yankton WTP Improvements, Yankton, South Dakota, United States 2018, 24,982 m³/d RO

Jordan Valley Water District: West Jordan, Utah, West Jordan, Utah, United States 2012, 22,712 m³/d RO

North Liberty Water Treatment Plant, North Liberty, Iowa, United States 2018, 11,447 m³/d RO

Clearwater R/O Plant #1 Expansion, Clearwater, Florida, United States 2014, 11,355 m³/d RO

Pasquotank County: Elizabeth City, North Carolina, Elizabeth City, North Carolina, United States 2012, 7,571 m³/d RO

Washington WTP, Washington, Iowa, United States 2018, 6,672 m³/d RO

City of Labelle WTP, Labelle, Florida, United States 2014, 5,678 m³/d RO
 Southern Outer Banks WTP, Corolla, North Carolina, United States 2014, 2,839 m³/d RO
 Douglas County RWD #3, Tecumseh, Kansas, United States 2014, 2,347 m³/d RO
 Tyrell County: Columbia, North Carolina, Columbia, North Carolina, United States 2012, 1,635 m³/d RO
 Town of Jupiter, Jupiter, Florida, United States 2015, 1,211 m³/d RO
 Saint Lucie Mobile Village, Indiantown, Florida, United States 2013, 568 m³/d RO
 Key Colony Beach WTP, Key Colony Beach, Florida, United States 2013, 379 m³/d RO
 Freeport, Grand Bahama Island, 2014, 327 m³/d RO
 City of Rule WTP, Rule, Texas, United States 2015, 303 m³/d RO

Hassan Allam



www.hassanallam.com

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EPC Contractor

Abou Ouieqal Potable Water Purification Plant, Cairo, Nasr City, Egypt 2017, 500,000 m³/d

Heartland Water Technologies



www.heartlandtech.com

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Brine Concentration

USA Generating Station, United States, 189 m³/d
 Waste Management King George #3, United States, 151 m³/d
 Seneca Resources Cherry Flats, Philadelphia, United States, 114 m³/d
 Waste Management King George #1, United States, 114 m³/d
 Waste Management King George #2, United States, 114 m³/d
 Brunner Landfill, United States, 91 m³/d
 Waste Management Turnkey Landfill, New Hampshire, United States, 76 m³/d
 Waste Management Phoenix Resources Landfill, Pennsylvania, United States, 45 m³/d
 Kenai Peninsula Borough Central Peninsula Landfill, Alaska, United States, 45 m³/d
 Southern Company Plant Bowen, Georgia, United States, 4 m³/d
 First Energy Harrison Plant- EPRI, West Virginia, United States, 4 m³/d

Heshmat Roud Co.



www.heshmatroud.com/en

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Plant Supplier (Reuse)

Azad Shahr WWTP, Azadshahr, Golestan Province, Iran 2012, 9,000 m³/d

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Plant Supplier (Reuse)

Cuellar WWTP - Expansion, Segovia, Spain 2015, 2,000 m³/d Tertiary (Unknown)

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Plant Supplier (Desal)

Costa Group, Guyra, New South Wales, Australia 2019, 1,200 m³/d UF
 Hamilton Island WTP, Hamilton Island, Queensland, Australia 2019, 1,000 m³/d RO
 Tenterfield Shire Council, Tenterfield, New South Wales, Australia 2019, 600 m³/d RO
 Qatar 2016, 347,770 m³/day MSF
 Qatar 2016, 272,760 m³/day RO
 Ras Abu Fontas A2, Qatar 2013, 164,000.0 m³/day MSF
 Taiwan 2013, 2,200.0 m³/day MED
 Bourke & Walgett WTPs, Bourke & Walgett, New South Wales, Australia, 2,250 m³/d RO
 APR Energy WTP, Jacksonville, Florida, United States, 1,440 m³/d RO
 Japan Desalination Plant, Japan, 370.0 m³/day RO

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SELECTED REFERENCES

EPC and O&M Contractor

Gulbarga STP, Gulbarga, Karnataka, India 2014, 40,000 m³/d SBR

Hyosung Goodsprings



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SELECTED REFERENCES

Engineering, Procurement, Installation and Commissioning

Dongducheon CCPP, Dongducheon, South Korea 2012, 7,900 m³/d Hybrid

Takoradi II CCPP, Ghana 2012, 2,600 m³/d Hybrid

Dongducheon CCPP, Dongducheon, South Korea 2012, 1,680 m³/d Hybrid

Hyrec



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SELECTED REFERENCES

Pilot Study

Containerized Pilot Plant in Turkey, Urla, Izmir, Turkey, 286 m³/d Other / Unknown

Research and Development Project

Containerized Salt Production Pilot Plant, Jakarta, Indonesia 2019, 96 m³/d Other / Unknown

Containerized Pilot Plant, Izmir, Turkey, 258 m³/d Other / Unknown

Technology and Equipment Supplier

Salt Plant Project, Jakarta, Indonesia 2019, 25,000 m³/d Other / Unknown

KSA Containerized Pilot Plant, Umlujj, Saudi Arabia 2019, 286 m³/d Other / Unknown

KISR Pilot Plant, Salmiya, Kuwait 2019, 23 m³/d FO

Salt Plant Project, Jakarta, Indonesia, 25,000 m³/d Other / Unknown

Technology Provider

Marvel Desalination and Salt Production Plant, Cilegon, Serang, Banten Province, Indonesia 2021, 24,000 m³/d RO

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Plant Supplier (Desal)

Prospect Lake City Water Center, Fort Lauderdale, U.S.A. 2023, 50 MGD NF

Aconcagua, Quintero, Chile 2022, 86,400 m³/d RO

SADDN (Codelco), 14 Km south to Tocopilla, Chile 2022, 72,576 m³/d RO

Western Galilee, Northwest Israel, Israel 2022, 100 million m³/yr RO

Sorek B, Israel 2020, 672,000 m³/d RO

Quebrada Blanca, Teck, Chile 2020, 102,360 m³/d RO

Cherokee RO Plant, Cherokee Metropolitan District, Colorado, United States 2020, 7,500 m³/d RO

Public Utilities Board, Jurong Island, Singapore 2019, 137,000 m³/d RO

Formosa Petrochemical, Mai-Liao, Taiwan 2019, 105,000 m³/d RO

Afikey Maim, Emek Hayarden, Israel 2019, 6,750 m³/d RO

OTEKO, Taman, Russia 2018, 11,000 m³/d RO

Afikey Maim, Emek Hayarden, Israel 2018, 6,750 m³/d RO

Reliance, Jamnagar, Gujarat, India 2017, 168,000 m³/d RO

City of Santa Barbara, Santa Barbara, United States 2017, 10,560 m³/d RO

Bomo Environment Engineering, China 2017, 5,000 m³/d VC

Corporacion Electrica National, Tocoa, Vargas State, Venezuela 2017, 3,600 m³/d MED

Minera Panama, Punta Rincon, Panama 2016, 1,920 m³/d VC

San Diego County Water Authority, Carlsbad, California, United States 2015, 204,412 m³/d RO

Guacolda Energia, Huasco, Chile 2015, 3,360 m³/d VC

Black Fox, Tocopilla, Chile 2015, 985 m³/d VC

AES Norgener, Tocopilla, Chile 2014, 1,200 m³/d VC

Koh Tao Water, Koh Tao, Thailand 2014, 1,000 m³/d RO

State of Israel, Sorek, Israel 2013, 624,000 m³/d RO

Tianjin SDIC, Tianjin, China 2013, 100,000 m³/d MED

Reliance, Jamnagar, Gujarat, India 2013, 72,000 m³/d MED

State of Tamil Nadu, Chennai, Tamil Nadu, India 2012, 100,000 m³/d RO

Electricity Authority of Cyprus, Vasilikos, Cyprus 2012, 60,000 m³/d RO

Essar, Gujarat, India 2012, 48,000 m³/d MED

Teck, Quebrada Blanca, Chile, 102,360 m³/d RO

Plant Supplier (Reuse)

Chennai Metropolitan Water Supply and Sewerage Board, Koyambedu, India 2019, 45,000 m³/d RO

Central Coast Blue, Pismo Beach, California, United States 2018, 163 m³/d RO

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Plant Supplier (Reuse)

Menzel Bouzelfa WWTP - Rehabilitation/Expansion, \N, Tunisia 2013

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Developer

MANA (Mallapur & Nacharam) CETP, Telangana, India 2012, 8,000 m³/d

Inmeva Infraestructuras S.L.



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SELECTED REFERENCES

Plant Supplier (Reuse)

La Granja de San Ildefonso WWTP - Upgrade, San Ildefonso, Spain 2015, Tertiary treatment

International Hydro Systems



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SELECTED REFERENCES

EPC Contractor

Adnan, Jeddah, Saudi Arabia 2014, 4,400 m³/d RO

Sharm El Sheikh, Egypt 2013, 1,100 m³/d RO

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EPC Contractor

GHCL Ltd, Veraval, India 2016, 4,800 m³/d RO

GHCL Ltd, Veraval, India 2012, 2,400 m³/d RO

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SELECTED REFERENCES

Replacement

Ionic Solutions Ltd. 1, Calgary, Alberta, Canada, 1,000 m³/d EDR
 Ionic Solutions Ltd. 3, Calgary, Alberta, Canada, 1,000 m³/d EDR
 Ionic Solutions Ltd. 4, Calgary, Alberta, Canada, 1,000 m³/d EDR

Retrofit

Ionic Solutions Ltd. 2, Calgary, Alberta, Canada, 2,000 m³/d EDR

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SELECTED REFERENCES



Developer

Barka, Oman 2015, 281,000 m³/d RO

EPC Contractor, through Local Joint Venture Arabian Company and Sasakura for Water & Power (APS)

Shoaiba, Saudi Arabia 2015, 91,200 m³/d MED

Jacobs (D) (R)

 United States of America  1 214 638 0145

www.jacobs.com

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EPC Contractor

Al Hamra Water Company Desalination Plant, Ras Al Khaimah, United Arab Emirates 2020, 100,000 m³/d RO

BSU RO WTP Expansion, Bonita Springs, FL, United States 2017, 56,775 m³/d RO

Camp Pendleton Northern Advanced Water Treatment Plant, Oceanside, CA, United States 2015, 25,100 m³/d RO

Beenyup Advanced Water Recycling Plant, Australia 2016, 74,712 m³/d RO

G. Robert House Jr WWTP, Suffolk, VA, United States, 64,345 m³/d EDR

Luggage Point Advanced Water Treatment Plant, QLD, Australia, 10,030 m³/d RO

JGC Corporation (D)

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SELECTED REFERENCES

Developer

Oman 2017, 80,000 m³/d RO

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EPC Contractor

Buenos Aires WWTP, Tenerife, Tenerife, Canary Islands, Spain 2018, 30,000 m³/d MBR

John Holland



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SELECTED REFERENCES

EPC and O&M Contractor

Parkes Shire WWTP, New South Wales, Australia 2015, Activated sludge (Extended Aeration)

Keppel Infrastructure Holdings



www.keppinfra.com/en

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Developer

Singapore 2017, 136,380 m³/d RO

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EPC Contractor

Keppel Marina East Desalination Plant, Singapore 2017, 137,000 m³/d RO

Keppel Seghers Ulu Pandan NEWater Plant - 3rd Stage RO Expansion Project, Singapore 2016, 14,800 m³/d RO

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SELECTED REFERENCES

Solar Desalination Technology

Technology License, El Paso, TX, United States Minor Outlying Islands 2015, RO

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www.kirton.co.uk

SELECTED REFERENCES

EPC Contractor

Gibraltar 2017, 5,200 m³/d RO

RO System Supplier

Containerised RO Plant Nigeria, Port Harcourt, Nigeria, 2,400 m³/d RO

Sea Water Reverse Osmosis System, St Marys Island, Isles of Scilly, United Kingdom, 400 m³/d RO

Kobelco Eco-Solutions



www.kobelco-eco.co.jp

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EPC Contractor

MODON DIC-1 Wastewater Reclamation Plant, Dammam Industrial City-1, Saudi Arabia 2012, 3,500 m³/d DAF/RO

Kolon Engineering



www.koloneengineering.com

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EP Contractor

KNPC CFP WWT, Kuwait, 11,520 m³/d
Karbala Refinery Project WT & WWT, Iraq, 3,000 m³/d

EPC Contractor

SADARA C/T Sidestream Filter, Jubail, Saudi Arabia 2013, 178,650 m³/d Other / Unknown
RPLC Deep Conversion WWT, Puerto de La Cruz, Venezuela 2013, 24,000 m³/d RO
Samsung Electronics WWT, Hwaseong, South Korea, 84,000 m³/d
SK Hynix M12 WWT, Cheongju, South Korea, 60,000 m³/d MBR
NSRP Complex Water Treatment, Thanh Hoa, Vietnam, 51,600 m³/d RO
Gimcheon Cogeneration WT WWT, Gimcheon, South Korea, 10,440 m³/d
Lotte Chemical P2 WWT, Yeosu, South Korea, 6,400 m³/d DAF
Sejong City Group Energy Service Water Treatment, South Korea, 4,800 m³/d
Jijel & Biskra CCPP WT WWT, Jijel & Biskra, Algeria, 3,600 m³/d RO
Goyang Samsung WT WWT, Goyang, South Korea, 3,600 m³/d
KumHo Polychem YEP Wastewater Treatment System, South Korea, 3,600 m³/d
Yeosu Oil Tank Terminal WT/ WWT, South Korea, 1,080 m³/d
Hyundai Green Power Plant Water & Wastewater Treatment System, South Korea, 960 m³/d
Suwon Homaesil Mass Energy Plant Water & Wastewater Treatment System, South Korea, 840 m³/d
SM200 Phase 1 WT WWT, Southern Mindanao, Philippines, 720 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Nagasaki, Kyushu, Japan 2021, 6,000 m³/d
Okinawa Hateruma Island, Japan 2013, 230 m³/d RO
Okinawa Zanam Island, Japan 2013, 100 m³/d RO

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EPC Contractor

477 MLD Chandrawal WTP, Delhi, New Delhi, India 2019, 397,468 m³/d Other / Unknown
GIDC 100 MLD Desalination Plant, Dahej District, Bharuch State, India 2019, 100,000 m³/d RO
New Water Injection South-R (NWIS-R) Project, Mumbai, India 2019, 20,000 m³/d RO
Low Salinity Water Package for NWIS Project of ONGC, India, Offshore near Mumbai, Maharashtra State, India 2019, 18,600 m³/d RO
CETP Dholera, Gujarat, India 2018, 16,000 m³/d RO
Shendra-Bidkin Industrial Area STP, Maharashtra, India 2017, 11,000 m³/d Tertiary treatment
Jhunjunu WWTP, Jhunjunu, Rajasthan, India 2017, 7,000 m³/d SBR
Shendra-Bidkin Industrial Area CETP, Maharashtra, India 2017, 7,000 m³/d Tertiary treatment
Jebel Ali STP Phase II, United Arab Emirates 2016, 375,000 m³/d Other / Unknown
Jebel Ali Sewage Treatment Plant, Jebel Ali, United Arab Emirates 2016, 375,000 m³/d Other / Unknown
318 MLD STP, Coronation Pillar, New Delhi, Delhi, India 2016, 318,000 m³/d Tertiary treatment
55 MLD, Nellore, Andhra Pradesh, India 2016, 55,000 m³/d Other / Unknown
Dholera WWTP, Gujarat, India 2016, 10,000 m³/d Tertiary treatment
Trans Varuna Sewerage Works, Varanasi, Uttar Pradesh, India 2015, 120,000 m³/d UV
Alshamal Sewage Treatment plant, Alshamal, Qatar 2015, 7,500 m³/d UF
Plant water system for Yermarus Thermal power station, Raichur, Karnataka, India 2013, 150,000 m³/d
31 MLD STP, Bhatpara, West Bengal, India 2013, 31,000 m³/d Other / Unknown
10 MLD STP, Bhatpara, West Bengal, India 2013, 10,000 m³/d Other / Unknown

EPC and O&M Contractor

Pali Water and Sewerage Project, Pali, Rajasthan, India 2015, 15,000 m³/d SBR

Laing O'Rourke



www.laingorourke.com

SELECTED REFERENCES

EPC Contractor

Northern Water Treatment Plant, Miles, QLD, Australia 2012, 100,000 m³/d RO

Lantania



www.lantania.com/en

SELECTED REFERENCES

EPC Contractor

- Jubail 3A SWRO, Jubail, Saudi Arabia 2021, 600,000 m³/d RO
- Atlantic Cooper Industrial waste water treatment plant, Huelva, Spain 2020, 2,592 m³/d
- Noreste (II)- El Carmen water treatment plant, Escobedo, Mexico 2017, 1,123 m³/d RO
- Mahón generation plant. Water treatment plant, Mahón, Spain 2017, 717 m³/d RO
- Ence Huelva Biomass water treatment plant, Huelva, Spain 2017, 130 m³/d RO
- Jorf MP-SAP & Energy Power water treatment plant, Cabablanca, Morocco 2016, 5,788 m³/d RO
- Topolobampo 2 combined cycle. Water treatment plant, Sinaloa, Mexico 2016, 553 m³/d RO
- La Ablaneda drinking water treatment plant, Asturias, Spain 2015, 216,000 m³/d
- Noreste combined cycle plant. Water treatment plant, Escobedo, Mexico 2015, 1,123 m³/d RO
- Extractora del Sur de Casanare reverse osmosis plant, Casanare, Colombia 2015, 720 m³/d RO
- Altamira Cogeneration plant. Water treatment plant, Altamira, Mexico 2015, 622 m³/d RO
- Kathu I solar thermal plant. Water treatment plant, Kathu, South Africa 2015, 579 m³/d RO
- PetStar Industrial waste water treatment plant, Toluca, Mexico 2015, 270 m³/d MBR
- Bioenergy El Alcaravan Industrial water treatment plant, Puerto Lopez, Colombia 2014, 300 m³/d RO
- Intecsa Industrial Norm Handling Industrial waste water treatment plant, Abu Dabhi, UAE 2014, 120 m³/d
- San Pedro biomass Industrial waste water treatment plant, San Pedro Macoris, Rep. Dominicana 2013, 2,885 m³/d RO
- Reserva Fria combined cycle plant. Water treatment plant, Chiclayo, Peru 2013, 2,420 m³/d RO
- Ramos Kimberly cogeneration plant. Water treatment plant, Monterrey, Mexico 2013, 968 m³/d RO
- Copasa Sogama industrial waste water treatment plant., La Coruña, Spain 2013, 400 m³/d RO
- Atlantic Copper reverse osmosis plant, Huelva, Spain 2013, 10 m³/d RO
- Mancomunada Sector Cardeñosa (Avila) drinking water treatment plant., Avila, Spain 2012, 4,320 m³/d
- Frigorifico Guadalupe Industrial waste water treatment plant, Bogotá, Colombia 2012, 1,700 m³/d
- Bookport solar thermal plant. Water treatment plant, Upintgton, South Africa 2012, 760 m³/d RO
- Quala Industrial waste water treatment plant, Bogotá, Colombia 2012, 528 m³/d MBR
- Dragados GULF-Intecsa Industrial (Mina de Bauxita) Industrial waste water treatment plant, Maaden, UAE 2012, 100 m³/d RO

Logisticon Water Treatment



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www.mobile-watertreatment.com

SELECTED REFERENCES

Design, Build, Finance and Operate

Geleen, Netherlands 2016, 2,400 m³/d RO

Design, Engineering, Building, Construction, Commissioning and Maintenance

Schuwacht, Gouda, Netherlands 2015, 9,600 m³/d RO

Mobile RO, Rotterdam, Netherlands 2015, 4,800 m³/d RO

DWP Phase I, Rotterdam, Netherlands 2010, 33,600 m³/d RO

Plant Supplier

Mobile UF, Groot-Ammers, Netherlands 2015, 12,400 m³/d Other / Unknown

Rotterdam, Netherlands 2015, 9,600 m³/d RO

Amsterdam, Netherlands 2015, 3,840 m³/d RO

Mobile RO, Romania 2014, 13,200 m³/d RO

Lieshout, Netherlands 2014, 2,000 m³/d NF

Wastewater reuse, Amsterdam, Netherlands 2014, 390 m³/d Other / Unknown

Tertiary waste water re-use, Gouda, Netherlands 2013, 1,240 m³/d RO

ZH, Netherlands 2012, 600 m³/d RO

Brabant, Netherlands 2012, 240 m³/d Other / Unknown

Rental RO unit, Romania 2013, 13,200 m³/d RO

MAK Industrial Water Solutions



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SELECTED REFERENCES

Plant Supplier (Desal)

Mt Morgans Gold Project, Laverton, WA, Australia 2017, 450 m³/d RO

Marine Supply Base, Karratha, WA, Australia, 500 m³/d RO

Iron Ore Mine - Rio Tinto, Pilbara, WA, Australia, 360 m³/d RO

Coal Seam Gas Plant, Combabula, Queensland, Australia, 165 m³/d UF

Malakoff International Ltd



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www.malakoff.com

SELECTED REFERENCES

Plant Owner

Al Ghubrah IWP, Muscat, Oman 2012, 190,932 m³/d RO

Marafiq



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registration.electrical@marafiq.com.sa
registration.projects@marafiq.com.sa

www.marafiq.com.sa

SELECTED REFERENCES

Developer

SWRO Project, Sadara, Saudi Arabia 2013, 178,560 m³/d RO
Yanbu 2 Power and Water Project, Yanbu, Saudi Arabia 2011,
60,000 m³/d MED

Marubeni Corporation



Japan 0081 3 32822111

www.marubeni.com

SELECTED REFERENCES

Operation and Maintenance

Doha West WWTP - Phase 3, Doha, Qatar 2014, 105,000 m³/d UF

Plant Owner, Operation and Maintenance

Shuqaiq 3, Saudi Arabia 2019, 450,062 m³/d RO

Rabigh - Expansion, Saudi Arabia 2014, 54,553 m³/d RO

Mascara Renewable Water



France (+33) 237 343 075

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www.mascara-nt.fr/en

SELECTED REFERENCES

Reverse Osmosis Solar Desalination Unit Supplier

Witsand/Hessequa, Western Cape Province, South Africa 2018, 100 m³/d RO

Furna/Nova Sintra, Brava Island, Cabo Verde 2018, 20 m³/d RO

Papa Garang Island, East Nusa Tenggara, Indonesia 2018, 5 m³/d RO

Gaza Province (3 x 20m³/d, 3 x 30m³/d), Mozambique 2017, 150 m³/d RO

Rodrigues Island, Mauritius 2017, 80 m³/d RO

Rodrigues Island, Mauritius 2017, 20 m³/d RO

Bora-Bora, French Polynesia 2016, 80 m³/d RO

MBR Technologies



www.mbrtech.com.au

SELECTED REFERENCES

Technology Provider

Sunbury Recycled Water Plant - Upgrade, Australia 2018, 9,200 m³/d

McWong Environmental Technology Corp., Ltd.



China +86 2168552275

chenyuanchao@mcwongtech.com

www.mcwongtech.com

SELECTED REFERENCES

Plant Supplier

Water Reuse - ChinaCoal, Inner Mongolia, China 2015, 18,272 m³/d RO

Taihua New Material Company Zero Liquid Discharge Project, Shanxi, Taiyuan, China 2015, 1,440 m³/d RO

Yangcoal Pingding Zero Liquid Discharge Project, Shanxi, Yangquan, China 2014, 9,600 m³/d RO

Mengda Zero Liquid Discharge Project, Erdos, China 2013, 13,200 m³/d RO

Water Reuse - Yellow River, China, 14,400 m³/d RO

Municipal Reuse-water Treatment, Zhejiang, China, 10,000 m³/d Ozonation

Reuse and ZLD - Yangquan Coal Group, Yangquan, China, 5,040 m³/d RO

MEGA A.S.



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www.mega.cz

SELECTED REFERENCES

ED Equipment Supply, Installation and Commissioning

Police, Poland 2019, 17,654 m³/d ED
Philip Morris, Italy 2019, 1,152 m³/d ED
Caesar Pac, Kuwait 2017, 2,160 m³/d ED
Kasra paper, Yazd, Iran 2016, 2,160 m³/d ED
Petrochemical Complex - Comperj, Rio de Janeiro, Itaboraí, Brazil 2015, 10,200 m³/d ED
Taif-Nk, Tatarstan, Russia 2015, 6,000 m³/d ED
Achinsk, Krasnoyarsk, Russia 2015, 500 m³/d ED
Sonapat, India 2015, 264 m³/d ED
Neemrana, India 2015, 240 m³/d ED
PALS Breweries, Aurangabad, India 2014, 240 m³/d ED
Kuybyshev AZOT, Togliatti, Russia 2013, 1,440 m³/d ED
JSC Minudobreniya, Rossoh, Russia 2012, 1,440 m³/d ED

EDI Equipment Supply, Installation and Commissioning

Termomeccanica, Colombia 2017, 1,440 m³/d ED
G-Power, Georgia 2017, 480 m³/d ED
Al-Khaleej, United Arab Emirates 2016, 960 m³/d ED
Energy, Czech Republic 2014, 2,376 m³/d ED

Mego Construcciones



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SELECTED REFERENCES

EPC Contractor

El Bobar WWTP, Almería - Expansion, Andalucía, Spain 2012, 47,500 m³/d MF, UV

Membrane SRL



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www.membrane.it

SELECTED REFERENCES

Plant Supplier (Desal)

Offshore, South Korea, Italy 2015, 20 m³/d RO
SEA 20, Offshore, South Korea 2015, 20 m³/d RO
SEA 20, Offshore, Italy 2015, 20 m³/d RO
EDI desalination, Italy 2015, 6 m³/d EDI
EDIDEMI 6, Lyon, Auvergne Rhône-Alpes, France 2015, 6 m³/d EDI
EDIDEMI 6, Milan, Lombardia, Italy 2015, 6 m³/d EDI
SEA 720, Offshore, Nigeria 2013, 720 m³/d RO
OSMODEMI 720, Milan, Lombardia, Italy 2013, 720 m³/d RO
OSMODEMI 300, Milan, Lombardia, Italy 2013, 300 m³/d RO
Sardinia, Italy 2013, 300 m³/d RO
OSMODEMI 300, Sardinia, Italy 2013, 300 m³/d RO
SEA 240, Offshore, Norway 2012, 240 m³/d RO
SEA 240, Offshore, Italy 2012, 240 m³/d RO
Sicily, Italy 2011, 1,600 m³/d RO

Package Supply

Sewage Water Treatment System DEPUR OIL-120, Offshore, Brazil 2012, 120 m³/d Other / Unknown

Package Supply/Site Service

Sewage Water MBR Treatment System, Offshore, Italy 2015, 80 m³/d Other / Unknown
Desalination Package SEA 240-DPLX-EExD, Offshore, Italy 2012, 240 m³/d RO
Nanofiltration plant, Offshore, Italy 2012, 3 m³/d NF

Revamping/Site Service

Desalination Package SEA 200-SP-EEXi-NSK, Offshore, Norway 2015, 800 m³/d RO

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METITO



Commitment to a Cleaner Environment

Metito is a pan-emerging market leader of total intelligent water management with operations covering design and build, utilities, operations and maintenance, and chemical solutions. Given its high-value engineering capabilities, the company provides customized and advanced solutions that embody Metito's key founding principles of impact, sustainability, innovation.

Metito operates across the entire treatment value chain specializing in desalination, wastewater treatment, recycling and reuse, water reuse, and industrial solutions (up to hyper-pure water). Metito is also an impact investor in water and wastewater assets, pioneering both Greenfield and Brownfield projects across markets.

Backed by 65 years of history, 4500 plus employees, experience in 50 countries, and over 25 offices globally, Metito is at the forefront of the water and wastewater industry with an impressive project portfolio of over 5,000 projects to date. The company has been announced as the lead supplier for desalination plants developed from July 2021-October 2022 as per Global Water Intelligence Report 2022.

Metito is a key enabler of the circular economy and is committed to working with governments, industries, and communities to meet their water needs by delivering sustainable infrastructure solutions.

For more information please visit metito.com

SELECTED REFERENCES

O&M Contractor

- El Galala, Egypt 2022, 150,000 m³/d RO
- Sedra Site, Saudi Arabia 2022, 60,000 m³/d
- Egyptian Fertilizer Company, Egypt 2022, 25,000 m³/d RO
- Riffa Views WWTP, Bahrain 2022, 3,600 m³/d
- Kalba WWTP, UAE 2022, 3,500 m³/d
- Hatta WWTP, UAE 2022, 3,000 m³/d
- Salwa Beach Resort WWTP, Qatar 2022, 2,600 m³/d
- Salwa Beach Resort BWRO Plant, Qatar 2022, 2,600 m³/d RO
- Al Gassar BWRO Plant, Qatar 2022, 1,700 m³/d RO
- Boom Construction WWTP, Qatar 2022, 1,000 m³/d
- Samhaan BWRO Plant, Bahrain 2022, 500 m³/d RO
- Al Gassar Grey Water System, Qatar 2022, 144 m³/d
- Emaar Polishing Plant WWTP, UAE 2021, 20,000 m³/d
- Jafza WWTP, UAE 2021, 8,000 m³/d

- Al Bayt BWRO Plant, Qatar 2021, 3,600 m³/d RO
- Naufar BWRO Plant, Qatar 2021, 1,000 m³/d RO
- Dannat Al Lawzy WWTP, Bahrain 2021, 615 m³/d
- Barwa Al Khor WWTP, Qatar 2021, 560 m³/d
- Sewerage Extension to Al Khor ST Works Phase II, Qatar 2012, 3,888 m³/d Other / Unknown

Plant Supplier (Desal)

- Mirfa Seawater Treatment and Supply Company, United Arab Emirates 2023, 500,000 m³/d
- Perur, India 2023, 400,000 m³/d RO
- Fouka, Algeria 2023, 300,000 m³/d RO
- Al-Jubail Desalination Phase 2 SWRO Plant, Saudi Arabia 2022, 1,000,000 m³/d RO
- Production Restoration of Hamriyah SWRO Plant, United Arab Emirates 2022, 90,800 m³/d RO
- Corso SWRO Plant, Algeria 2022, 80,000 m³/d RO
- Manyar Smelter, Indonesia 2022, 34,500 m³/d RO
- Koskhetau Project, Kazakhstan 2022, 30,000 m³/d
- Expansion of Caspiy Desalination SWRO Plant, Kazakhstan 2022, 26,600 m³/d RO
- King Abdullah Economic City, Saudi Arabia 2022, 15,000 m³/d RO
- Fujairah Fresh Water Production Co. Phase 2 SWRO Plant, United Arab Emirates 2022, 3,500 m³/d RO
- NEOM Satco Village, Saudi Arabia 2022, 2,000 m³/d RO
- El Nasr Co. Intermediate Chemicals Abu Rawash, Egypt 2022, 1,920 m³/d
- Umm Al Afahae Plant, Qatar 2022, 1,000 m³/d
- Neom Satco Village BWRO Plant, KSA 2022, 250 m³/d RO
- El Hammam Utilities BWRO Plant, Egypt 2022, 115 m³/d RO
- Sfax SWRO Plant, Tunisia 2021, 100,000 m³/d RO
- Abu Tieg Potable Water Treatment Plant, Egypt 2021, 43,200 m³/d Other / Unknown
- Manflout Potable Water Treatment Plant, Egypt 2021, 43,200 m³/d Other / Unknown
- Mallawy Potable Water Treatment Plant, Egypt 2021, 38,880 m³/d Other / Unknown
- Sharm El Sheikh SWRO Plant, Egypt 2021, 30,000 m³/d RO
- Der Mewas Potable Water Treatment Plant, Egypt 2021, 25,920 m³/d
- Kirikale Refineries BWRO Plant, Turkey 2021, 7,200 m³/d RO
- Egyptian Fertilizers Company Demin Plant, Egypt 2021, 3,840 m³/d RO
- Wika Palu SWRO Plant, Indonesia 2021, 1,953 m³/d RO
- CSFPP Palu -3 SWRO Power Plant Plant, Indonesia 2021, 1,862 m³/d RO
- New Palm Oil Refinery SWRO Plant, Indonesia 2021, 1,764 m³/d RO
- District Cooling Scheme for Business Park, KFUPM, BWRO Plant, Saudi Arabia 2021, 1,712 m³/d RO
- New Palm Oil Refinery BWRO Plant, Indonesia 2021, 1,500 m³/d RO
- El Dabaa Port SWRO Plant, Egypt 2021, 250 m³/d RO
- Sir Abu Nauyr Island SWRO Plant, UAE 2021, 135 m³/d RO
- Al Jubail Desalination Plant (Phase 2), Saudi Arabia 2020, 400,000 m³/d RO
- Bahri (construction of desalination plants on 3 barges), Al Shaqeeq, Saudi Arabia 2020, 150,000 m³/d RO
- kikda/Sedrata BWRO, Skikda, Algeria 2020, 15,000 m³/d RO
- The Food Complex, Egypt 2020, 1,440 m³/d RO
- CBWRO Plant for YKK Pakistan, Pakistan 2020, 720 m³/d RO
- Duba SWRO, Saudi Arabia 2019, 125,000 m³/d RO
- Al Arish, Egypt 2019, 100,000 m³/d RO

Laayounes SWRO Plant, Morocco 2019, 26,000 m³/d RO
 Fujairah Fresh Water Production Co., United Arab Emirates 2022, 3,500 m³/d RO
 Al Bayt Stadium Alkhor, Qatar 2022, 3,500 m³/d RO
 6th of October, Egypt 2022, 25,000 m³/d
 DUQM Refinery Project, EPC PKG, Service Water Remineralization, Oman 2019, 24,096 m³/d Other / Unknown
 DUQM Refinery Project, EPC PKG, Demineralization, Oman 2019, 13,824 m³/d Other / Unknown
 The Red Sea Development Company (TRSDC), Saudi Arabia 2019, 12,500 m³/d RO
 DUQM Refinery Project, EPC PKG, Condensate Polishing, Oman 2019, 10,416 m³/d Other / Unknown
 Desalination Plant - Vipingo Development, Kenya 2019, 3,000 m³/d RO
 EPC - Upgrade / Modification WTP System 1 CELL Unit 1 - PLTU SUGE Belitung, Indonesia 2019, 1,128 m³/d RO
 System 1 CELL Unit 1 - PLTU SUGE Belitung (Upgrade/Modification WTP), Indonesia 2019, 1,128 m³/d RO
 JAWA 1 Combined Cycle Power Plant Project, Indonesia 2019, 969 m³/d RO
 Ball Beverage Packaging, Egypt 2019, 370 m³/d RO
 DUQM Refinery Project, EPC PKG, Potable Water Remineralization, Oman 2019, 309 m³/d Other / Unknown
 Basrah Gas Project, Iraq 2019, 240 m³/d RO
 Mobile Desalination Plants in Saudi for SWCC, Saudi Arabia 2018, 150,000 m³/d RO
 BOO Water Desalination Plant at Wadi Al Ain Well Field, Wilayat Ibri, Al Dhahirah Governorate, Oman 2018, 40,000 m³/d RO
 PCPL Taloja Ammonia (PTA) Project, Mumbai, Taloja, India 2018, 25,704 m³/d RO
 Sharma Complex SWRO, Sharma, Saudi Arabia 2018, 24,000 m³/d RO
 Tinduf line 3, Algeria 2018, 5,250 m³/d RO
 El Negila SWRO, North Coast, Egypt 2018, 5,000 m³/d RO
 Tarjun Refinery - WTP, Indonesia 2018, 3,120 m³/d RO
 PP12-CC Modularization WT Facility - WTP - Modular Type WTP , Saudi Arabia 2018, 2,000 m³/d UF
 Hacienda Bay, North Coast, Egypt 2018, 2,000 m³/d RO
 EPC - Revitalization WTP for RU VII Kasim, Indonesia 2018, 1,200 m³/d RO
 Sharma Complex BWRO, Sharma, Saudi Arabia 2018, 1,200 m³/d RO
 Singapore Refining Company Desalination Project, Jurong Island, Singapore 2018, 1,100 m³/d RO
 PP12 – Modularization Water Treatment Facility, Saudi Arabia 2018, 960 m³/d RO
 Nasr City Water Purification Plant - Abu Oweikal, Cairo, Egypt 2017, 500,000 m³/d RO
 Beash Dam Valley BWRO, Beash, Saudi Arabia 2017, 150,000 m³/d RO
 East Port Said Desalination, Port Said, Egypt 2017, 150,000 m³/d RO
 SKing Abdullah Economic City - SWRO Plant, Jeddah, Saudi Arabia 2017, 30,000 m³/d RO
 ATA Power & Steam Integration Project, Abu Dhabi, Taweelah, United Arab Emirates 2017, 13,200 m³/d RO
 West Damietta Extension, Damietta, Egypt 2017, 12,960 m³/d RO
 MAAFCO Misr, New Cairo, Egypt 2017, 11,448 m³/d RO
 Rades-C Combined Cycle Power Plant, Tunis, Tunisia 2017, 5,472 m³/d RO
 Al Bayt Stadium-TSE RO Polishing Plant, Doha, Qatar 2017, 3,000 m³/d RO
 Abu Ali Camp Project, Abu Ali Island, Eastern Region, Saudi Arabia 2017, 120 m³/d RO
 Hassi R'mel Boosting Phase 3 Project, Hassi R'mel, Algeria 2017, 1,800 m³/d RO

Jizan Hospital Project BWRO & STP, Jeddah, Saudi Arabia 2017, 900 m³/d RO
 HRH Prince Khalid Bin Abdullah Palace, Jeddah, Saudi Arabia 2017, 500 m³/d RO
 New Jeddah Clinic Hospital, Jeddah, Saudi Arabia 2017, 470 m³/d RO
 Indonesia Muara Karang Project, Indonesia 2017, 440 m³/d RO
 Hassi R'mel Boosting Phase 3 Project, Hassi R'mel, Algeria 2017, 90 m³/d RO
 Aramco Gazan Industrial Support Facilities, Jazan, Saudi Arabia 2017, 60 m³/d RO
 El Galala Seawater Reverse Osmosis Project, Ain Sokhna, Egypt 2016, 150,000 m³/d RO
 El Tor Seawater Reverse Osmosis Project, El Tor Sinai, Egypt 2016, 30,000 m³/d RO
 Tindouf BWRO, Algeria 2016, 10,500 m³/d RO
 Uzbekistan Navoiy Fertilizer (UNF) Project – RWTP (BWRO) & Damin, Navoiy, Uzbekistan 2016, 4,320 m³/d RO
 Salwa Resort Project - TSE Polishing RO, Doha, Qatar 2016, 1,850 m³/d RO
 Al Yosr Seawater Reverse Osmosis Project, Hurghada, Egypt 2015, 80,000 m³/d RO
 Touggourt Brackish Water Reverse Osmosis Project, Touggourt, Algeria 2015, 34,000 m³/d RO
 Marassi (North Coast) Seawater Reverse Osmosis Project, Sidi Abdel Rahman, Egypt 2015, 12,500 m³/d RO
 SONEDE Brackish Water Reverse Osmosis Project , Mareth, Matmata, Beni Khedash, Belkheir, Tunisia 2015, 11,400 m³/d RO
 El Burullus Power Plant Seawater Reverse Osmosis/ Brackish Water Reverse Osmosis Project, El Burullus, Egypt 2015, 3,300 m³/d RO
 Umm Wu'al Phosphate Brackish Water Reverse Osmosis Project, Turaif, Saudi Arabia 2014, 54,600 m³/d RO
 Damietta Seawater Reverse Osmosis Project, Damietta, Egypt 2014, 7,200 m³/d RO
 KFUPM Student Housing Project , Dhahran, Saudi Arabia 2014, 6,600 m³/d RO
 Rabigh 2 Independent Power Project, Rabigh, Saudi Arabia 2014, 5,616 m³/d RO
 Cleopatra Seawater Reverse Osmosis Project, Marsa Matrouh, Egypt 2014, 4,500 m³/d RO
 Sidi Barani Seawater Reverse Osmosis Project, Sidi Barani, Egypt 2014, 4,500 m³/d RO
 City Stars Seawater Reverse Osmosis Project, Sharm El Sheikh, Egypt 2014, 4,500 m³/d RO
 Pearl Qatar Seawater Reverse Osmosis Plant, Doha, Qatar 2013, 35,000 m³/d RO
 Downtown Dubai Development TSE RO Polishing Plant, Dubai, United Arab Emirates 2013, 20,000 m³/d RO
 Musandam Gas Plant Project, Musandam, Oman 2013, 3,600 m³/d RO
 Handan Steel 3rd Water Treatment Plant, Handan, China 2011, 45,500 m³/d RO
 Arar Brackish Water Reverse Osmosis Plant, Arar, Saudi Arabia 2011, 25,000 m³/d RO
 Palm Oil Mill PT Sari Dumai Sejati Project, Dumai, Indonesia 2011, 6,720 m³/d RO
 South Yoloten Gas Field Development Project, Yolöten, Turkmenistan 2011, 4,300 m³/d RO
 Qatar Steel (Qasco) Project, Qatar 2010, 15,000 m³/d RO
 Lisco Brackish Water Reverse Osmosis Project, Misrata, Libya 2010, 3,000 m³/d ROQ111
 NEOM, Saudi Arabia 2019, 125,000 m³/d RO

Plant Supplier (Reuse)

Mishref PS & Associated Facilities, Kuwait 2023, 261,000 m³/d
 Mbezi Beach, Tanzania 2023, 16,000 m³/d

Amwaj Island, Bahrain 2023, 5,000 m³/d
 North Field, Qatar 2023, 4,350 m³/d
 Qatar Petrochemicals Company, Qatar 2023, 3,600 m³/d
 Madinat Khalifa Temp (Rayad Asker and Bur Al Dur), Bahrain 2023, 3,000 m³/d
 Borg El Arab Milk & Cheese Factory, Egypt 2023, 1,500 m³/d
 Al Bayt Village, Qatar 2023, 700 m³/d
 Hamad International Airport (Ras Abrouq), Qatar 2023, 45 m³/d
 Al Wakra Al Wukair, Qatar 2022, 150,000 m³/d
 Namangan Municipal Project, Uzbekistan 2022, 100,000 m³/d
 Zrenjanin Purification Water Plant, Serbia 2022, 30,240 m³/d
 Tanouf, Egypt 2022, 20,000 m³/d
 Ebrash & Kafr Ebrash Villages WWTP, Egypt 2022, 10,000 m³/d
 Shama Village, Egypt 2022, 10,000 m³/d
 Talya Village, Egypt 2022, 10,000 m³/d
 Sobk El Ahd Village, Egypt 2022, 10,000 m³/d
 Qantra West, Egypt 2022, 10,000 m³/d
 Ras Laffan Petrochemicals Project, Qatar 2022, 8,700 m³/d
 Kahk WWTP, Egypt 2022, 7,500 m³/d
 Youssef Al Seddik WWTP, Egypt 2022, 5,000 m³/d
 Arab Zidan WWTP, Egypt 2022, 4,000 m³/d
 NEOM Satco Village WWTP, KSA 2022, 2,000 m³/d
 West Aswan, Egypt 2022, 2,000 m³/d
 Gezirat Abu Saleh, Egypt 2022, 2,000 m³/d
 NEOM Satco Village, Saudi Arabia 2022, 2,000 m³/d
 Um Al Hould Freezone, Qatar 2022, 1,500 m³/d
 Massar, United Arab Emirates 2022, 1,500 m³/d
 Mazzraty Dairy Project and Irakia Farm, Qatar 2022, 1,300 m³/d
 Punagaya Coal Fired Power Plant, Indonesia 2022, 760 m³/d
 Samara Pharmaceutical Plant, Iraq 2022, 500 m³/d
 Al Gassar Grey Water System, Qatar 2022, 144 m³/d
 Taliwang Coal Fired Power Plant, Indonesia 2022, 80 m³/d
 El Hammam Utilities WWTP, Egypt 2022, 50 m³/d
 Al Hammam Water Reuse, Egypt 2021, 7,500,000 m³/d Other / Unknown
 Namangan WWTP, Uzbekistan 2021, 100,000 m³/d
 Sidi Abdella SUD WWTP, Algeria 2021, 32,000 m³/d
 Barwa Housing WWTP, Qatar 2021, 27,200 m³/d
 Wadi Al Arab Sewage Treatment Plants, Jordan 2021, 27,000 m³/d Other / Unknown
 Rehab of Wadi al Arab WWTP, Jordan 2021, 27,000 m³/d
 Kafr El Waslin Sewage Treatment Plant, Egypt 2021, 25,000 m³/d Other / Unknown
 Barmasha WWTP, Egypt 2021, 20,000 m³/d
 Upgrade & Rehab of WWTP (UWN), KSA 2021, 19,200 m³/d
 Camp North Field Expansion WWTP, Qatar 2021, 15,700 m³/d
 Barwa's Family Housing Sewage Treatment Plant, Qatar 2021, 15,337 m³/d Other / Unknown
 Abu Qurkas Sewage Treatment Plant, Egypt 2021, 15,000 m³/d Other / Unknown
 Irbid Central Sewage Treatment Plant, Jordan 2021, 13,000 m³/d Other / Unknown
 Barwa's Labor Accommodation Sewage Treatment Plant, Qatar 2021, 7,644 m³/d Other / Unknown
 The Group of STPs, UAE 2021, 4,000 m³/d
 Feed for Halul Isand STP, Qatar 2019, 600 m³/d MBR
 Rehab of Irbid WWTP, Jordan 2021, 13,000 m³/d
 Al Galalah Sewage Treatment Plant, Egypt 2021, 10,000 m³/d Other / Unknown
 Air Products - Demineralization Package, Jubail WWTP, KSA 2021, 7,440 m³/d

El Rashidi El Mizan Factory WWTP, Egypt 2021, 1,000 m³/d
 National Paint Labor Accommodation, UAE 2021, 500 m³/d
 Pyramid Heights Sewage Treatment Plant, Egypt 2021, 400 m³/d Other / Unknown
 El Dabaa Police Station WWTP, Egypt 2021, 300 m³/d
 El Dabaa Port WWTP, Egypt 2021, 250 m³/d
 SARPI Hassi R'mel WWTP, Algeria 2021, 150 m³/d
 Development Du Perimetre de Touggourt WWTP, Algeria 2021, 35 m³/d
 Independent Sewage Treatment Plant (ISTP), Dammam, Saudi Arabia 2020, 350,000 m³/d Other / Unknown
 TRSDC, The Red Sea Development Company - GLS Storage Tanks, Saudi Arabia 2020, 31,209 m³/d Other / Unknown
 Zrenjanin Sewage Treatment Plant, Serbia 2020, 25,000 m³/d Other / Unknown
 Aljada Sewage Treatment Plant, United Arab Emirates 2020, 16,500 m³/d Other / Unknown
 Manshiet Abbas, Egypt 2020, 12,000 m³/d Other / Unknown
 Snita El Rafeen STP, Egypt 2020, 12,000 m³/d MBR
 El Negila LAB Equipment, Egypt 2020, 10,000 m³/d Other / Unknown
 Fowa Kafr El Sheikh, Egypt 2020, 10,000 m³/d Other / Unknown
 El Mansoura Sewage Treatment Plant, Egypt 2020, 8,000 m³/d Other / Unknown
 El Mansoura Sewage Treatment Plant, Egypt 2020, 7,000 m³/d Other / Unknown
 Manshyet Abdel Rahman Sewage Treatment Plant, Egypt 2020, 3,000 m³/d Other / Unknown
 New Port Project Sewage Treatment Plant, Qatar 2020, 2,931 m³/d Other / Unknown
 New Port Project - NPP 0050, Qatar 2020, 2,900 m³/d Other / Unknown
 Crown Palm Hills, Egypt 2020, 2,000 m³/d MBR
 Assuit Villages, Egypt 2020, 1,950 m³/d MBR
 Um Alhoul Economic Zone (QEZ-3), Qatar 2020, 1,500 m³/d MBR
 Borg Al Arbab, Egypt 2020, 1,380 m³/d MBR
 Mariam Island - STP, United Arab Emirates 2020, 720 m³/d MBR
 Movenpick Sewage Treatment Plants (2x250), Egypt 2020, 500 m³/d Other / Unknown
 King Abdullah Medical City Sewage Treatment Plant, Bahrain 2020, 500 m³/d MBR
 Al Mahsama Treatment Plant, North Sinai, Egypt 2019, 1,000,000 m³/d Tertiary treatment
 New El Alamein STP, Egypt 2019, 90,000 m³/d Other / Unknown
 Boukhalef STP, Morocco 2019, 32,000 m³/d Other / Unknown
 Manshiyet El Horreya WWTP-EGP, Egypt 2019, 30,000 m³/d Other / Unknown
 Relocation of PTP - O&M of DS STW - Work Order No.: PTP - 026, Qatar 2019, 10,000 m³/d Other / Unknown
 Al Nekaidy STP, Egypt 2019, 10,000 m³/d Other / Unknown
 Fadhili Bachelors Camp STP, Saudi Arabia 2019, 1,000 m³/d Other / Unknown
 Danaat Al Lawzi, Bahrain 2019, 615 m³/d MBR
 Wastewater Plants for Lesotho, Lesotho 2019, 600 m³/d MBR
 Mahe STP - lot2, Seychelles 2019, 80 m³/d Other / Unknown
 JAWA 1 Combined Cycle Power Plant Project, Indonesia 2019, 25 m³/d Other / Unknown
 New Alamin, Egypt 2018, 90,000 m³/d Other / Unknown
 Ghazala STP, Saudi Arabia 2012, 5,000 m³/d Other / Unknown
 East Port Saied STP, Port Said, Egypt 2018, 25,000 m³/d Other / Unknown
 Sawaleh STP, Sharkia, Egypt 2018, 22,000 m³/d Other / Unknown
 Al-Quaway'iyah STP, Al-Quaway'iyah, Saudi Arabia 2018, 10,000 m³/d Other / Unknown
 Badr STP, Egypt 2018, 10,000 m³/d Other / Unknown

PCPL Talaja Ammonia (PTA) Project, Mumbai, India 2018, 6,840 m³/d RO

Sharjah International Airport Expansion Project, United Arab Emirates 2018, 3,000 m³/d MBR

Bang Pakong Combined Cycle Project, Chachoengsao, Thailand 2018, 2,780 m³/d Other / Unknown

Sharoura STP, Western Region, Saudi Arabia 2018, 2,200 m³/d MBR

Soldiers Accommodation Army Camp, Qatar 2018, 1,200 m³/d Other / Unknown

WWTP-Arab Qatari Co. for Poultry Production, Doha, Qatar 2018, 500 m³/d Other / Unknown

Sewage Treatment Plant for Hotel Ole Sereni, Doha, Qatar 2018, 200 m³/d Other / Unknown

PCPL Talaja Ammonia (PTA) Project, Mumbai, India 2018, 168 m³/d Other / Unknown

Mahalma STP, Algeria 2017, 32,000 m³/d Other / Unknown

KhanYounis Waste Water Treatment Plant, Palestine 2017, 26,000 m³/d

Temp. STP Facility at Southern New Town in Bahrain, Askar, Bahrain 2017, 3,021 m³/d Other / Unknown

Jizan Hospital Project, Jeddah, Saudi Arabia 2017, 1,500 m³/d RO

Lusail Stadium - Labour Camp, Doha, Qatar 2017, 1,000 m³/d Other / Unknown

El Massah, New Capital, Egypt 2017, 1,000 m³/d Other / Unknown

National Guard Specialized Hospital, Qassim, Saudi Arabia 2017, 600 m³/d Other / Unknown

QDVC Labour camp - STP Upgrade, Doha, Qatar 2017, 600 m³/d Other / Unknown

New Jeddah Hospital Clinic, Jeddah, Saudi Arabia 2017, 520 m³/d SBR

Al Iman General Hospital Project, Jeddah, Saudi Arabia 2017, 400 m³/d SBR

Al Jaryan Farm, STP - RDA, Doha, Qatar 2017, 250 m³/d Other / Unknown

Sharjah Main Sewage Treatment Works - Upgrade, Sharjah, United Arab Emirates 2016, 130,000 m³/d Other / Unknown

Khan Younis WWTP and Buildings, Gaza, Palestine 2016, 26,700 m³/d Other / Unknown

Shotb, Assiut, Egypt 2016, 26,000 m³/d Other / Unknown

Dubai Silicon Oasis STP Expansion, Dubai, United Arab Emirates 2016, 15,000 m³/d Other / Unknown

Jebel Ali Hills Package 7-Sewage Treatment Plant, Dubai, United Arab Emirates 2016, 12,000 m³/d MBR

Amwaj Island - STP Expansion Project, Manama, Bahrain 2016, 5,000 m³/d MBR

Expansion of Kalba Sewage Treatment Plant, Sharjah, United Arab Emirates 2016, 3,500 m³/d Other / Unknown

Ithaafushi Island Resort Project, Maldives 2016, 400 m³/d Other / Unknown

DIP East STP – 2nd TSE Storage Tank, Dubai, United Arab Emirates 2015, 10,000 m³/d Other / Unknown

Demashkeen Village - Air Craft, El Fayoum, Egypt 2015, 10,000 m³/d Other / Unknown

Awlad seif Village - Air Craft, El Sharkeya, Egypt 2015, 10,000 m³/d Other / Unknown

Aqiq STP , Al-Aqiq, Saudi Arabia 2015, 6,250 m³/d MBR

Sumail Industrial Estate - STP, Oman 2015, 3,600 m³/d MBR

Organica Trial at DIP West, Dubai, United Arab Emirates 2015, 3,500 m³/d Other / Unknown

Kafr Taboot, Giza, Egypt 2015, 3,000 m³/d RO

Al Jisser WTP, Iraq 2013, 4,000 m³/d Other / Unknown

The Gardens-Supply & Delivery of Floating Process Aerators at STP, Dubai, United Arab Emirates 2014, 30,000 m³/d Other / Unknown

El Tal El Kebeer, Sarkeya, Egypt 2014, 20,000 m³/d Other / Unknown

Zawyet Rozein, Monofeya, Egypt 2014, 20,000 m³/d Other / Unknown

Samanoud Sewage Treatment Plant, Samanoud, Egypt 2014, 15,000 m³/d Other / Unknown

Kafr El Khadra, Monofeya, Egypt 2014, 12,000 m³/d Other / Unknown

Al-Yousefeyyah STP, Iraq 2014, 11,000 m³/d Other / Unknown

DIP East Park STP – New Expansion of Phase E2 A/B, Dubai, United Arab Emirates 2014, 10,000 m³/d Other / Unknown

DIP West Park STP Expansion-MBBR 9,000m³/day, Dubai, United Arab Emirates 2014, 9,000 m³/d MBBR

Integrated Sewerage System - Tarif & Bida Mutawa, Abu Dhabi, United Arab Emirates 2014, 8,800 m³/d Other / Unknown

Meraas Development - Dubai Parks Project Phase I, Dubai, United Arab Emirates 2014, 7,500 m³/d Other / Unknown

Reem Development Phase I - WWTP, Dubai, United Arab Emirates 2014, 6,000 m³/d MBR

Madina Industrial City - WWTP, Saudi Arabia 2014, 5,000 m³/d Other / Unknown

Ruwais Housing Complex Expansion P-III, Temporary STP, Abu Dhabi, United Arab Emirates 2014, 1,000 m³/d Other / Unknown

JAFZA One STP Phase I, Dubai, United Arab Emirates 2014, 360 m³/d Other / Unknown

Ruwais Housing Complex Expansion Phase III. New STP, Abu Dhabi, United Arab Emirates 2013, 30,000 m³/d Other / Unknown

Al Mahmodeyah WTP, Iraq 2013, 4,000 m³/d Other / Unknown

Barwa Al-Khor Housing Development Package 2, Qatar 2013, 560 m³/d Other / Unknown

Al Bustan Zoological Center Slaughter House, Sharjah, United Arab Emirates 2013, 200 m³/d Other / Unknown

Short Term Measures-2nd Package-Grit Removal, Bahrain 2012, 100,000 m³/d MBR

STP Of South Koufa, Iraq 2012, 50,000 m³/d Other / Unknown

Al Basrah STP - Shat Al Arab, Iraq 2012, 10,000 m³/d Other / Unknown

Al Basrah STP - Safwan, Iraq 2012, 10,000 m³/d Other / Unknown

Al Basrah STP - Um Qasser, Iraq 2012, 10,000 m³/d Other / Unknown

Al Hait STP, Saudi Arabia 2012, 5,000 m³/d Other / Unknown

SANG Al-Qasim, Saudi Arabia 2012, 5,000 m³/d MBR

Compact WTO, Iraq 2012, 4,000 m³/d Other / Unknown

Al khor Sewerage Extension to Al Khor ST Works Phase II, Qatar 2012, 3,888 m³/d Other / Unknown

Sanitary STP at BAPCO Refinery, Bahrain 2012, 1,000 m³/d MBR

Midwater



www.midwatertech.com.eg

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Design, Supply and Installation

Soft Drinks Factory Clarification & Filtration Plant - Alexandria
Egypt, Alexandria, Egypt 2015, 750 m³/d RO (Reverse Osmosis)

Mitsubishi Corporation



www.mitsubishicorp.com

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Developer (via K1 Energy)

Doha, Qatar 2016, 347,770 m³/d MSF
Doha, Qatar 2016, 272,760 m³/d RO

EPCM

Ras Abu Fontas, Qatar 2013, 163,656 m³/d MSF

Mitsubishi Heavy Industries, Ltd.



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www.mhi.co.jp

SELECTED REFERENCES

Plant Supplier (Desal) and EPC Contractor

Rabigh IWSPP Phase-II, Rabigh, Saudi Arabia 2013, 96,000 m³/d RO

Mitsui & Co.



www.mitsui.com/jp/en

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Developer

Chile, Antofagasta 2018, 69,120 m³/d RO
(WASA) Trinidad y Tobago, San Fernando, Trinidad and Tobago 2016, Other / Unknown

Sponsor

Al Dur 2, Al Dur, Bahrain 2018, RO

Mojan



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SELECTED REFERENCES

EPC Contractor

Azad Shahr WWTP, Azadshahr, Golestan Province, Iran 2012, 9,000 m³/d Other / Unknown

Morganti



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SELECTED REFERENCES

Developer and EPC Contractor

As-Samra WWTP - Expansion, Jordan 2012, 98,000 m³/d Secondary

Much More Water



www.muchmorewater.com

SELECTED REFERENCES

Technology Provider: BlueBox

3P Biotech Denmark Aps, Denmark 2018
BlueBox 60RO Solar, Romania 2017, 12 m³/d RO
BlueBox 450RO, Kenya 2017, 4 m³/d RO
BlueBox 1200RO, Mali 2014, 2 m³/d RO
BlueBox 150 Wall-mount, Côte d'Ivoire 2013, 1 m³/d RO

Nafasi Water



www.nafasiwater.com

SELECTED REFERENCES

Technology Provider

Middleburg Water Reclamation Plant, Mpumalanga, Middleburg, South Africa 2021, 20,000 m³/d RO

Nasr Isfahan Co.



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Developer

Parkandabad 2 WWTP - Expansion, Mashhad, Khorasan-e Razavi Province, Iran 2015, 60,000 m³/d Tertiary

Nesma Water & Energy



www.nesmawae.com

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EPC Contractor

Jubail - 3B Independent Water Plant (AJIWC), KSA - Jubail, Saudi Arabia 2021, 570,000 m³/d RO

Design Built and Operate RO Plant & Pumping for 4 Industrial Cities, KSA - Alhassa - Durma - Hail - Riyadh, Saudi Arabia 2021, 2,000 m³/d RO

Yanbu - 4 Independent Water Plant (YIWC), KSA - Yanbu, Saudi Arabia 2020, 450,000 m³/d RO

O&M Contractor

Dawadmi RO Plant, KSA - Riyadh Dawadmi, Saudi Arabia 2022, 40,000 m³/d RO

New Water Corporation Ltd.



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www.septechholdings.com

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Plant Supplier (Desal)

Pearl Dive Pool, Dubai, United Arab Emirates 2014, 74,400 m³/d

Awali Oil Field, Awali Oil Field, Manama, Bahrain 2014, 2,250 m³/d

Nomura Micro Science



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www.nomura.com

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EPC Contractor

Hefei, China 2017, 12,000 m³/d RO

Hefei, China 2017, 8,000 m³/d RO

Hwaseong, South Korea 2017, 8,000 m³/d RO

Paju, South Korea 2015, 6,400 m³/d RO

Xiamen, China 2015, 6,000 m³/d RO

Xian, China 2014, 2,000 m³/d RO

Guangzhou, China 2014, 1,300 m³/d RO

Xian, China 2013, 17,000 m³/d RO

Novatron



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SELECTED REFERENCES

Equipment Supplier

Monkey Mia Dolphin Resort, Coral Coast WA, Australia 2013, 160 m³/d RO

Windarling #5, Eastern Goldfields WA, Australia 2013, 50 m³/d RO

Muja Power Station Stage C, WA, Australia 2012, 2,880 m³/d RO

Tropicana Train #3, Goldfields WA, Australia 2012, 160 m³/d RO

Tuckerbianna, Pilbara WA, Australia 2012, 30 m³/d RO

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SELECTED REFERENCES

Developer

Bushehr SWRO Expansion, Bushehr, Iran 2019, 12,500 m³/d RO

Kangan SWRO Desalination Plant, Bandar Kangan, Bushehr Province, Iran 2015, 10,000 m³/d RO

Hendijan BWRO Desalination Plant, Hendijan, Khuzestan Province, Iran 2015, 2,500 m³/d RO

Bushehr SWRO Desalination Plant, Bushehr, Bushehr Province, Iran 2013, 10,000 m³/d RO

Chabahar and Konarak (Phase II) SWRO Desalination Plant, Chabahar, Sistan and Baluchestan Province, Iran 2012, 15,000 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Reuse)

Burgos WWTP - Expansion, Burgos, Spain 2013

Oneka Technologies



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Florida, United States of America

Algarrobo, Chile

www.onekawater.com

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EPC Contractor

Oneka P1 at Cofradia Nautica Del Pacifico, Algarrobo, Chile 2022, 6 m³/d RO

Orascom Construction Industries



www.orascom.com

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EPC Contractor

Wave Project, Abu Dhabi, United Arab Emirates 2023, 522,800 m³/d NF

6th of October Industrial Wastewater – Ph.1, 6th of October, Giza Governorate, Egypt 2022, 25,000 m³/d Other / Unknown

Al Hammam / New Delta Agricultural Wastewater Treatment Plant, Al Hammam, North Coast, Egypt 2021, 7,500,000 m³/d Other / Unknown

Sfax Seawater Desalination Plant, Sfax, Southeast of Tunis, Tunisia 2021, 200,000 m³/d RO

Dammam Wastewater Treatment Plant, Al Dammam, Eastern Province, Saudi Arabia 2020, 350,000 m³/d Other / Unknown

Al Arish Seawater Desalination Plant – Phase 2, Al Arish, Sinai, Egypt 2020, 100,000 m³/d RO

Bahr El Baqr Water Treatment Plant, Port Said, at the northern end of the Suez Canal, Egypt 2019, 5,600,000 m³/d Other / Unknown

Al Alamein Wastewater Treatment Plant, Al Alamein, North Coast, Egypt 2019, 90,000 m³/d Other / Unknown

Abu Rawash Waste Water Treatment Plant, Abu Rawash, Giza Governorate, Egypt 2018, 1,600,000 m³/d Other / Unknown

East Port Said Sea Water Desalination Plant, Port Said, at the northern end of the Suez Canal, Egypt 2017, 250,000 m³/d RO

El Galalah Seawater Desalination Plant, Ain Sokhna, Suez Governorate western shore of the Red Sea's Gulf of Suez., Egypt 2016, 150,000 m³/d RO

Organo



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Plant Supplier (Desal)

Bintuni, Indonesia 2018, 1,500 m³/d RO
Bintuni, Indonesia 2018, 1,500 m³/d RO
Vietnam 2017, 4,140 m³/d RO
Kagoshima, Japan 2017, 500 m³/d RO
Taiwan 2016, 30,000 m³/d RO
Cilegon, Banten, Indonesia 2016, 5,400 m³/d RO
Cilegon, Banten, Indonesia 2016, 4,848 m³/d RO
Indonesia 2016, 4,800 m³/d RO
Bintuni, Papua, Indonesia 2016, 3,500 m³/d RO
Malaysia 2016, 1,440 m³/d RO
Kansai, Japan 2016, 1,200 m³/d RO
Kyushu, Japan 2016, 900 m³/d RO
Taiwan 2015, 24,000 m³/d RO
Chubu, Japan 2015, 20,000 m³/d RO
Taiwan 2015, 16,000 m³/d RO
Taiwan 2015, 6,700 m³/d RO
Taiwan 2015, 5,800 m³/d RO
Chugoku, Japan 2015, 3,800 m³/d ED
Chugoku, Japan 2015, 3,700 m³/d RO
Malaysia 2015, 2,400 m³/d RO
Kyushu, Japan 2015, 1,800 m³/d RO
Kyushu, Japan 2015, 1,700 m³/d ED
China 2015, 1,700 m³/d RO
Kyushu, Japan 2015, 1,200 m³/d RO
Tohoku, Japan 2015, 500 m³/d ED
Kansai, Japan 2015, 500 m³/d RO
Taiwan 2014, 20,000 m³/d RO
Chubu, Japan 2014, 11,000 m³/d RO
Shikoku, Japan 2014, 1,400 m³/d RO
Kyushu, Japan 2014, 1,300 m³/d RO
Kanto, Japan 2014, 500 m³/d RO
Chubu, Japan 2014, 400 m³/d RO
Kyushu, Japan 2014, 260 m³/d RO
Kanto, Japan 2014, 150 m³/d RO
Tohoku, Japan 2014, 100 m³/d RO
Chubu, Japan 2013, 1,000 m³/d ED
PT. Citicon BWRO, Indonesia 2013, 264 m³/d RO
PT. Citicon SWRO, Indonesia 2013, 98 m³/d RO

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EPC Contractor

Palencia WWTP - Expansion, Palencia, Spain 2013, 5,000 m³/d
Tertiary treatment

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Plant Supplier (Desal)

C NF 230 AM, Norway 2023, 3,000 m³/d UF
OSMO 54 AM, Venezuela 2023, 1,200 m³/d RO
OSMO 36 AM, Morocco 2023, 1,000 m³/d RO
OSMO 24 AM, Cuneo, Italy 2023, 600 m³/d RO
OSMO 6 AM, Foggia, Italy 2023, 150 m³/d RO
HD 4 AM, Reggio Emilia, Italy 2023, 100 m³/d RO
C NF 200 Am, Norway 2022, 3,000 m³/d
C NF 105 AM, Norway 2022, 1,500 m³/d UF
Osmo 48 Am, Cuneo, Italy 2022, 1,350 m³/d RO
OSMO 54 AM, Libya 2022, 1,200 m³/d RO
Osmo 12 Am, Morocco 2022, 400 m³/d RO
Hd 8 Am, Scicli, Italy 2022, 250 m³/d RO
2x Osmo S Hr 63 Am, Morocco 2021, 1,500 m³/d RO
OSMO 30 AM, Romania 2021, 750 m³/d RO
OSMO 24 AM, Morocco 2021, 720 m³/d RO
Osmo 20 Am, Qatar 2021, 600 m³/d RO
SHR 49 AM, Libya 2021, 500 m³/d RO
OSMO 20 AM, Parma, Emilia-Romagna, Italy 2021, 500 m³/d RO
OSMO 12 AM, Tunisia 2021, 300 m³/d RO
Hd 8 Am, Caserta, Italy 2021, 250 m³/d RO
Osmo 8 Am, Vieste, Italy 2021, 250 m³/d RO
HD 6 AM, Bosnia and Herzegovina 2021, 150 m³/d RO
Hd 4 Am, Hungary 2021, 150 m³/d RO
HD 3 AM, Parma, Emilia-Romagna, Italy 2021, 100 m³/d RO
OSMO S 150 AM, Galloway, Ireland 2020, 3,000 m³/d RO
OSMO 25 AM, Tunisia 2020, 600 m³/d RO
OSMO 12 AM, Kediri, Indonesia 2020, 300 m³/d RO
OSMO S 105 AM, Galloway, Ireland 2019, 2,000 m³/d RO
OSMO S HR 50 AM, Lebanon 2019, 600 m³/d RO
OSMO 10 AM, Algeria 2019, 250 m³/d RO
OSMO 6 AM, Molfetta, Italy 2019, 150 m³/d RO

BWRO OSMO 25 AM, Romania, Greece 2012, 750 m³/d RO
 OSMO 20 AM, Perugia, Italy 2012, 600 m³/d RO
 OSMO 18 AM, Vittoria, Italy 2012, 500 m³/d RO
 BWRO OSMO 18 AM, Italy 2012, 500 m³/d RO
 2X BWRO OSMO 10 AM, Libya 2012, 480 m³/d RO
 BWRO HD 4 AM, Italy 2012, 120 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Gas Power Station Demin WTP, Kurri Kurri, NSW, Australia 2023, 2,400 m³/d RO
 Coal Mine WTP, Muswellbrook, NSW, Australia 2023, 1,200 m³/d RO
 Desal for CO₂ Free Water Project, Gulhifalhu Island, Maldives 2023, 500 m³/d RO
 Construction WTP, Neom Project, Saudi Arabia 2022, 21,000 m³/d RO
 Oil Refinery Demin WTP, Basrah, Iraq 2022, 9,700 m³/d RO
 Municipal WTPs, South Tarawa, Kiribati 2022, 6,000 m³/d RO
 Coal Mine WTP, Dawson, QLD, Australia 2022, 4,000 m³/d RO
 LNG Facility Potable WTPs, Barrow Island, WA, Australia 2022, 1,700 m³/d RO
 Coal Seam Gas Facility Brine WTP, Roma, QLD, Australia 2022, 1,600 m³/d RO
 Coal Power Station WTP, Tharparkar, Pakistan 2022, 1,000 m³/d RO
 Gas Power Station Demin WTP, Port Adelaide, SA, Australia 2022, 720 m³/d RO
 Gas Power Station Demin WTP, Bolivar, SA, Australia 2022, 540 m³/d RO
 Iron Ore Mine WTS, Pilbara, WA, Australia 2021, 40,000 m³/d RO
 Municipal Desal ERD Retrofit, Dubai, United Arab Emirates 2021, 32,000 m³/d RO
 Gas Power Station Demin Plant, Sharjah, United Arab Emirates 2021, 5,220 m³/d RO
 Potable water pumpstation, Sharjah, United Arab Emirates 2021, 2,000 m³/d RO
 Effluent Treatment Plant, Dubai, United Arab Emirates 2021, 1,200 m³/d RO
 Coal Seam Gas Facility WTP Refurb, Daandine, QLD, Australia 2020, 12,000 m³/d RO
 Municipal WTP, Dubai, United Arab Emirates 2020, 500 m³/d RO
 Demin WTP, Al Jubail, Saudi Arabia 2020, 300 m³/d RO
 Municipal WTPs, Bourke / Walgett, NSW, Australia 2019, 2,250 m³/d RO
 Lithium Mine WTP, Wodgina, WA, Australia 2018, 10,300 m³/d RO

Gas Power Station Demin WTP, Kwinana, WA, Australia 2018, 1,300 m³/d RO
 Gas Power Station Demin WTP, Saih Rawl, OMAN 2018, 400 m³/d RO
 Iron Ore Mine WTP, Pilbara, WA, Australia 2017, 20,000 m³/d RO
 Osmoflo Brine Squeezer WTP, Jabiru, NT, Australia 2017, 3,000 m³/d RO
 Brewery WTP Upgrade, Regency Park, SA, Australia 2017, 1,500 m³/d RO
 Community Desal WTP, Barbados 2017, 1,500 m³/d RO
 OBS Upgrade of Brewery RO WTP, Yatala, QLD, Australia 2017, 1,000 m³/d RO
 Municipal WTP, Kangaroo Island, SA, Australia 2017, 400 m³/d RO
 Municipal WTP, Metro Manila, Philippines 2016, 20,000 m³/d RO
 Community WTP, Ebeye Island, Marshall Islands 2016, 1,600 m³/d RO
 Municipal WTP, Barka, Oman 2015, 56,826 m³/d RO
 Municipal WTP, Mount Isa, QLD, Australia 2015, 25,000 m³/d
 LNG Facility Construction WTPs, Onslow, WA, Australia 2015, 12,000 m³/d RO
 Gas PS Potable/Demin WTP, Yarnima, WA, Australia 2015, 8,240 m³/d RO
 Municipal WTP, Broken Hill, NSW, Australia 2015, 6,000 m³/d RO
 Coal Seam Gas Facility WTP, Narrabri, NSW, Australia 2015, 1,500 m³/d RO
 Coal Mine WTP, Mudgee, NSW, Australia 2014, 21,300 m³/d RO
 LNG CPF & FPSO Water Makers, Offshore, WA, Australia 2014, 500 m³/d RO
 LNG Facility Demin WTP, Darwin, NT, Australia 2012, 1,700 m³/d RO
 LNG Facility Demin WTP, Barrow Island, WA, Australia 2012, 960 m³/d RO

Desalination Rental Projects

Port Desal BOO WTP Upgrade, Port Hedland, WA, Australia 2023, 4,400 m³/d RO
 Coal Seam Gas Site WTP Upgrade, Wandoan, QLD, Australia 2023, 2,700 m³/d RO
 Rental WTP, Umluj, Saudi Arabia 2023, 1,500 m³/d RO
 Gas Power Station Demin WTP, Yallourn, VIC, Australia 2023, 1,300 m³/d RO
 Mineral Sands Site WTP, Ceduna, SA, Australia 2023, 150 m³/d RO
 Coal Seam Gas Site WTP, Wandoan, QLD, Australia 2022, 2,700 m³/d RO
 Phosphate Mine Rental WTP, Mt Isa, QLD, Australia 2022, 840 m³/d RO
 Rental WTPs, Olympic Dam, SA, Australia 2021, 2,000 m³/d RO
 Emergency WTP for Power Station, Rayong, Thailand 2020, 7,000 m³/d RO
 Coal Mine Rental WTP, Dawson, QLD, Australia 2020, 2,000 m³/d RO
 Desal Rental WTP, Sharma Project, Saudi Arabia 2018, 14,000 m³/d RO
 Emergency Rental WTP, Cape Town, South Africa 2018, 2,000 m³/d RO
 Chemical Plant Demin WTP, Kuantan, Malaysia 2018, 1,800 m³/d RO
 Municipal WTP, Masirah Island, OMAN 2018, 1,600 m³/d RO
 Min Sands BOO WTP Refurb, Pooncarie, NSW, Australia 2018, 1,500 m³/d RO
 Gypsum Production WTP, Carnarvon, WA, Australia 2018, 1,400 m³/d RO
 Brewery WTP Upgrade, Regency Park, SA, Australia 2017, 4,000 m³/d RO
 Lithium Mine WTP, Fraser Ranges, WA, Australia 2017, 3,000 m³/d RO

Dairy Desal WTP, Marmum Dairy, Dubai, United Arab Emirates 2017, 300 m³/d RO
Municipal RO Recovery Upgrade, Broken Hill, NSW, Australia 2015, 4,500 m³/d RO

O&M Contractor

Iron Ore Mine WTS, Pilbara, WA, Australia 2023, 40,000 m³/d RO
Municipal WTPs, South Tarawa, Kiribati 2022, 6,000 m³/d RO
Coal Seam Gas Site WTP, Wandoan, QLD, Australia 2022, 5,400 m³/d RO
Pilot Plant, Dubai, United Arab Emirates 2022, 75 m³/d RO
Coal Mine Rental WTP, Dawson, QLD, Australia 2021, 4,000 m³/d RO
Osmoflo Brine Squeezer WTP, Jabiru, NT, Australia 2021, 3,000 m³/d RO
Pilot Plant, Sharjah, United Arab Emirates 2021, 77 m³/d RO
Iron Ore Mine WTP, Pilbara, WA, Australia 2019, 20,000 m³/d RO
Municipal WTP, Abu Dhabi, United Arab Emirates 2018, 21,000 m³/d RO
Lithium Mine WTP, Fraser Ranges, WA, Australia 2017, 3,000 m³/d RO
Community Desal WTP, Ebeye Island, Marshall Islands 2017, 1,600 m³/d RO
Municipal WTP, Broken Hill, NSW, Australia 2016, 10,500 m³/d RO
Coal Seam Gas Facility WTP, Narrabri, NSW, Australia 2015, 1,500 m³/d RO
Port Desal BOO WTP, Port Hedland, WA, Australia 2013, 3,000 m³/d RO
Desal for Magnetite Transport Water, Whyalla, SA, Australia 2012, 3,600 m³/d RO

Pall Corporation



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SELECTED REFERENCES

EPC Contractor

Granbury, United States 2015, 9,463 m³/d RO

Pan India



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SELECTED REFERENCES

EPC and O&M Contractor

Tonk Water and Sewerage Project, Tonk, Rajasthan, India 2015, 13,000 m³/d SBR

Paramount Ltd.



www.wastewater-recycle.com

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Plant Supplier (Reuse)

Water Treatment Package (Effluent Treatment Plant) of Resid Upgradation Project at Manali Refinery of CPCL, Chennai, Tamil Nadu, India 2014, 8,364 m³/d RO
Water Treatment Package (DM Water Plant) of Resid Upgradation Project at Manali Refinery of CPCL, Chennai, Tamil Nadu, India 2014, 7,200 m³/d RO
Mazda Colours Limited, Roha, Maharashtra., Roha, Raigad, Maharashtra, India 2014, 200 m³/d RO

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SELECTED REFERENCES

Design, Supply, Installation and Commissioning of Mechanical and Electrical Equipment

Municipal Wastewater Treatment Plant, Bosnia and Herzegovina 2017, 170,000 m³/d Other / Unknown
Exchange Demineralization Plant of the Ford Industrial Wastewater Treatment Plant, India 2014, 8,000 m³/d UF
Ford Industrial Wastewater Treatment Plant, India 2014, 4,500 m³/d RO
Municipal Wastewater Treatment Plant Extension, Sinaia and Breaza, Romania 2013, 15,232 m³/d Other / Unknown

EPC Contractor

Ribeira WWTP, Ribeira, A Coruña, Spain 2014, 8,000 m³/d Tertiary treatment

EPC and O&M Contractor

Gabal El Asfar WWTP - Phase 2B, Gabal El Asfar Farms, Egypt 2018, 500,000 m³/d Tertiary treatment
Coronation Pillar WWTP, Delhi, India 2016, 318,220 m³/d Tertiary treatment

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EPC Contractor

Bétera WWTP - Expansion, Spain 2018, 2,500 m³/d Tertiary treatment

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www.carlsbad-desal.com

SELECTED REFERENCES

Developer

Claude "Bud" Lewis Carlsbad Desalination Plant, Carlsbad, California, United States 2012, 189,270 m³/d RO

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EPC and O&M Contractor

Shaanxi Future Energy Chemical Company Desalination, Yulin, China 2018, 4,200 m³/d RO

Shaanxi Future Energy Chemical Company Reuse, Yulin, China 2018, 31,200 m³/d VC

Plant Supplier (Desal)

Ningxia Eastern Coal-Chemical Industry "Near-Zero Discharge" Wastewater Treatment and Reuse Project, Yinchuan, China 2019, 9,000 m³/d RO

Datang Huangdao Power Plant, China 2017, 5,000 m³/d RO

Plant Supplier (Reuse)

Xiayang Road Water Reuse Plant, Tianjin Province, China 2017, 50,000 m³/d RO

Jinmei Mingsheng Dahua Industrial Water Treatment Project (including wastewater treatment, water reuse and desalination systems), Shandong Province, China 2017, 29,520 m³/d RO

Power Generation Engineering Services Co. (PGESCO)



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Plant Supplier

Burullus Desalination And Water Treatment Facilities, Mediterranean Sea, Egypt 2015, 11,280 m³/d RO

South Helwan Water Treatment Facilities, Egypt 2015, 10,800 m³/d RO

New Capital Water Treatment Facilities, New Capital, Egypt 2015, 9,000 m³/d RO

New West Damietta Desalination and Water Treatment Facilities, Damietta, Egypt 2014, 16,950 m³/d RO

New Assiut Desalination and Water Treatment Facilities, Assiut, Egypt 2014, 12,000 m³/d RO

Banha Water Treatment Facilities, Middle Delta, Egypt 2012, 6,680 m³/d UF

Suez Desalination and Water Treatment Facilities, Suez, Egypt 2012, 6,000 m³/d MED

PowerChina



en.powerchina.cn

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EPC Contractor and Investor

Seawater desalination project of the Liuheng Island, Zhoushan, Zhejiang Province, China 2015, 52,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Desalination System

Slovakia 2023, 480 m³/d RO
United Kingdom 2022, 1,116 m³/d RO
Czech Republic 2022, 576 m³/d
Hungary 2022, 540 m³/d RO
United Kingdom 2022, 528 m³/d RO
Bulgaria 2022, 360 m³/d RO
Netherlands 2022, 216 m³/d NF
Finland 2021, 4,000 m³/d RO
Sweden 2021, 3,120 m³/d NF
United Kingdom 2021, 1,224 m³/d RO
Belgium 2021, 720 m³/d RO
Bulgaria 2020, 1,200 m³/d RO
Poland 2020, 1,058 m³/d RO
Italy 2019, 2,880 m³/d RO
Sweden 2019, 864 m³/d NF
ProMinent 2019, 400 m³/d RO
Sweden 2018, 5,000 m³/d RO
Vietnam 2017, 6,000 m³/d RO
Vietnam 2017, 4,080 m³/d RO
Algeria 2017, 2,976 m³/d RO
Austria 2017, 600 m³/d NF
Slovakia 2017, 240 m³/d RO
Sweden 2016, 3,024 m³/d RO
Algeria 2016, 1,680 m³/d RO
Seychelles 2016, 334 m³/d RO
Jordan 2016, 120 m³/d RO
Algeria 2015, 1,200 m³/d RO
Algeria 2015, 504 m³/d RO
Romania 2015, 360 m³/d RO
Poland 2015, 240 m³/d RO
Morocco 2015, 120 m³/d RO
Israel 2014, 1,440 m³/d RO
Algeria 2014, 504 m³/d RO
Sweden 2014, 384 m³/d RO
Mauritius 2014, 202 m³/d RO
Sweden 2014, 113 m³/d RO
Croatia 2014, 103 m³/d RO
France, 1,440 m³/d UF
Poland, 1,200 m³/d RO

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EPC Contractor

Marassi, Matrouh, Egypt, 8,400 m³/d Other / Unknown
Marassi, Matrouh, Egypt, 2,500 m³/d RO
Sidi Barrani, Matrouh, Egypt, 1,200 m³/d RO

Plant supplier

Red Sea Water & Wastewater Company, Egypt 2013, 1,500 m³/d RO
Alexandria, Egypt 2012, 5,000 m³/d RO
Marsa Alam, Egypt 2012, 1,500 m³/d RO

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SELECTED REFERENCES

Plant Supplier

Southern Tunisia, Tunisia 2012, 36,200 m³/d RO
Tozeur, Tunisia 2012, 6,000 m³/d RO
Tozeur, Tunisia 2012, 4,000 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Mine water reclamation plant, Middelburg, Mpumalanga, South Africa 2023, 1,500 m³/d RO
Mine effluent treatment plant, Emalahleni, Mpumalanga, South Africa 2022, 15,000 m³/d RO
Brine water treatment, Vereeniging, Gauteng, South Africa 2022, 10,000 m³/d RO

V&A sea water desalination, Cape Town, Western Cape, South Africa 2022, 3,300 m³/d RO
 Borehole Water Treatment Plant, Gqerberha, Eastern Cape, South Africa 2022, 2,000 m³/d RO
 Borehole Water Treatment Plant, Gqerberha, Eastern Cape, South Africa 2022, 1,800 m³/d RO
 Coffee Condensate Water Reuse, Gympie, Queensland, Australia 2022, 220 m³/d MBR
 Mine water reclamation plant, Middelburg, Mpumalanga, South Africa 2021, 50,000 m³/d RO
 Effluent treatment to condensate production, Secunda, Mpumalanga, South Africa 2021, 8,000 m³/d RO
 Mine effluent treatment plant, Secunda, Mpumalanga, South Africa 2021, 7,000 m³/d RO
 Brine water treatment, Middelburg, Mpumalanga, South Africa 2021, 2,000 m³/d RO
 Contaminated Storm Water, Machadodorp, Mpumalanga, South Africa 2021, 1,000 m³/d RO
 Side stream cooling filtration for resue, Vereeniging, Gauteng, South Africa 2021, 900 m³/d RO
 Arcelormittal, South Africa 2018, 3,200 m³/d RO
 Tronox, West Coast, South Africa 2018, 1,500 m³/d RO
 Hydrotek Desalination System, Kuwait 2017, 24,000 m³/d RO
 Strandfontein Desalination Plant, Cape Town, South Africa 2017, 7,000 m³/d RO
 Monwabisi Desalination Plant, Cape Town, South Africa 2017, 7,000 m³/d RO
 Al-Diwan Al-Amiri SWRO Plant, Al-Diwan Al-Amiri, Kuwait 2017, 2,400 m³/d RO
 Petrofac, Zakum Islands, United Arab Emirates 2017, 800 m³/d RO
 Glencore Mine, South Africa 2017, 500 m³/d RO
 Peninsula Beverages, Cape Town, South Africa, 2,400 m³/d UF

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SELECTED REFERENCES

EPC Contractor

Jakarta, Indonesia 2013, 1,200 m³/d RO
 Palembang, Indonesia 2013, 1,200 m³/d RO
 Pasuruan, Indonesia 2012, 2,400 m³/d RO
 Pulau Laut, Indonesia 2012, 2,040 m³/d RO
 Tangerang, Indonesia 2012, 1,440 m³/d RO
 Jakarta, Indonesia 2012, 1,008 m³/d RO

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Equipment Supplier

Puerto Rico 2020, 3,205 m³/d Other / Unknown
 Vietnam 2020, 1,374 m³/d RO
 United States 2020, 1,058 m³/d Other / Unknown
 United States 2020, 818 m³/d Other / Unknown
 Japan 2020, 330 m³/d RO
 Oman 2020, 329 m³/d NF
 U.S.A., United States 2020, 163 m³/d RO
 Saudi Arabia 2019, 3,600 m³/d RO
 United States 2019, 1,744 m³/d Other / Unknown
 Honduras 2019, 852 m³/d RO
 United States 2019, 818 m³/d Other / Unknown
 Colombia 2019, 605 m³/d UF
 Canada 2019, 568 m³/d Other / Unknown
 United States 2019, 545 m³/d Other / Unknown
 Canada 2019, 545 m³/d NF
 Kuwait 2019, 500 m³/d RO
 U.S.A., United States 2019, 492 m³/d RO
 U.S.A., United States 2019, 333 m³/d NF
 Saudi Arabia 2019, 302 m³/d RO
 U.S.A., United States 2019, 278 m³/d NF
 Angola 2019, 136 m³/d RO
 U.S.A., United States 2019, 121 m³/d RO
 Maldives 2019, 121 m³/d RO
 U.S.A., United States 2019, 109 m³/d RO
 Ecuador 2019, 100 m³/d RO
 Oman 2019, 91 m³/d RO
 Ghana 2019, 90 m³/d RO
 Bahamas 2019, 61 m³/d RO
 United States 2018, 5,040 m³/d UF
 U.S.A., United States 2018, 1,298 m³/d UF
 Costa Rica 2018, 1,022 m³/d RO
 Guinea 2018, 719 m³/d RO
 U.S.A., United States 2018, 605 m³/d RO
 Turkmenistan 2018, 528 m³/d RO
 U.S.A., United States 2018, 408 m³/d RO
 U.S.A., United States 2018, 265 m³/d RO
 U.S.A., United States 2018, 190 m³/d RO
 U.S.A., United States 2018, 151 m³/d RO
 U.S.A., United States 2018, 122 m³/d RO
 Ghana 2018, 2 m³/d UF
 Venezuela 2017, 5,460 m³/d RO
 U.S.A., United States 2017, 2,800 m³/d UF
 Jordan 2017, 1,900 m³/d UF
 U.S.A., United States 2017, 1,750 m³/d UF
 Guinea 2017, 1,200 m³/d RO
 Costa Rica 2017, 1,100 m³/d RO
 U.S.A., United States 2017, 950 m³/d RO
 Peru 2017, 800 m³/d RO

Qatar 2017, 700 m³/d RO
 U.S.A., United States 2017, 568 m³/d UF
 Venezuela 2017, 515 m³/d RO
 Papua New Guinea 2017, 400 m³/d RO
 Peru 2017, 400 m³/d RO
 Colombia 2017, 400 m³/d RO
 Kuwait 2017, 380 m³/d RO
 Maldives 2017, 300 m³/d RO
 Ecuador 2017, 227 m³/d RO
 Maldives 2017, 150 m³/d RO
 Trinidad and Tobago 2017, 76 m³/d RO
 Barbados, Bahamas 2017, 76 m³/d RO
 Kuwait 2016, 2,200 m³/d RO
 Iraq 2016, 1,800 m³/d RO
 Guatemala 2016, 960 m³/d RO
 Saudi Arabia 2016, 950 m³/d UF
 Guatemala 2016, 454 m³/d UF
 British Virgin Islands 2016, 454 m³/d RO
 Niger 2016, 400 m³/d RO
 Venezuela 2016, 330 m³/d RO
 Philippines 2016, 273 m³/d RO
 Ghana 2016, 227 m³/d RO
 Nigeria 2016, 227 m³/d RO
 Egypt 2015, 3,000 m³/d RO
 Philippines 2015, 495 m³/d RO
 Oman 2015, 490 m³/d RO
 Philippines 2015, 375 m³/d UF
 U.S.A., United States 2015, 246 m³/d
 Oman 2014, 2,070 m³/d UF
 Venezuela 2014, 2,000 m³/d RO
 Algeria 2014, 1,332 m³/d RO
 Ecuador 2014, 1,020 m³/d RO
 Mexico 2014, 424 m³/d RO
 U.S.A., United States 2013, 6,540 m³/d RO
 U.S.A., United States 2013, 1,363 m³/d RO
 Mexico 2013, 1,363 m³/d RO
 Venezuela 2013, 784 m³/d RO
 Lebanon 2013, 495 m³/d RO
 Canada 2012, 4,029 m³/d RO
 Egypt 2012, 3,000 m³/d RO

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SELECTED REFERENCES

Desalination System Supplier

West Texas RO - purifics, Texas, United States 2015, 3,785 m³/d RO

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Supplier of Electyrodeionization (FEDI) Units

PREPA South Coast Steam Power Plant, Puerto Rico 2017, 6,548 m³/d EDI (Electrodeionization)

Anshan Steel, China 2016, 3,100 m³/d EDI (Electrodeionization)

Sohar Refinery , Sohar, Oman 2014, 10,080 m³/d EDI

ETHYDICO - Alexandria Ethylene Manufacturing , Alexandria , Egypt 2013, 5,040 m³/d EDI

Rawafid Industrial



www.rawafid.sa

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EPC Contractor

WEC Shuaqaiq 3 Independent Water Plant (IWP), Shuqaiq, Saudi Arabia 2020, 450,000 m³/d RO

Shoaiba 5 SWRO, Shoaiba, Saudi Arabia 2019, 600,000 m³/d RO
 Al Qunfotha SWRO, Al Qunfudhah, Saudi Arabia 2018, 51,000 m³/d RO

Shuqaiq SWRO, Al Shuqaiq, Saudi Arabia 2018, 42,500 m³/d RO

Al Lith SWRO, Al Lith, Saudi Arabia 2018, 42,500 m³/d RO

Al Wajh SWRO, Al Wajh, Saudi Arabia 2018, 25,500 m³/d RO

Duba SWRO, Duba, Saudi Arabia 2018, 25,500 m³/d RO

Umluj SWRO, Umluj, Saudi Arabia 2018, 25,500 m³/d RO

Haql SWRO, Haql, Saudi Arabia 2018, 17,000 m³/d RO

Farasan SWRO, Farasan, Saudi Arabia 2018, 8,500 m³/d RO

Khafji SWRO, Al Khafji, Saudi Arabia 2016, 90,000 m³/d RO

Alfatah SWRO, Jubail, Saudi Arabia 2012, 75,000 m³/d RO

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Plant Supplier (Desal)

Sea water desalination plant, Upgrading with heat recovery, Sarroch, Italy 2015, 8,500 m³/d MSF

Algeria Mega Deal Project Mostaghanem, Mostaghanem, Algeria 2015, 2,200 m³/d MED

CCPP Ras Djinet, Algeria 2013, 2,200 m³/d MED

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SELECTED REFERENCES

EPC Contractor

Hurghada, Egypt 2013, 1,500 m³/d RO

Hurghada, Egypt 2012, 2,000 m³/d RO

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Sacyr Water is a water treatment company fully owned by the Spanish Sacyr Group. It belongs to Sacyr Concesiones, head of the PPP activities in the Group.

Sacyr Water is well known as a large contractor in desalination, with many successes in this field since 1995, and more than 2.2 million m³/day (in 100 units) installed and more than 1 million in operation, with different contract modalities (EPC, BOT, BOO, OM, Alliance, etc.).

Sacyr Water has also built and operated many large size wastewater treatment plants, including plants with tertiary processes or technologies such as MBR systems UV disinfection, filtration, MF, UF, advanced oxidation and desalination.

The management of municipal water cycles is another big activity with more than 9 million inhabitants supplied in different countries, including the recent acquisition of 3 concessionary companies in Chile; Sacyr Agua Chacabuco, Sacyr Agua Lampa and Sacyr Agua Santiago as well as Sacyr Agua Utilities with private contracts in the Colina District and Sacyr Agua Norte in Antofagasta.

In the international market, Sacyr Water has had important successes in different countries like Algeria, Spain, Tunisia, Chile, Israel, Oman and Australia, with offices all over the world.

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Desalination Concessions and O&M Contracts

BWRO Cuevas de Almanzora expansion, Almeria, Spain 2017, 15,000 m³/d RO

Southern Seawater Desalination Plant, Binningup, Australia, 306,000 m³/d RO

IPW Sohar, Oman, 250,000 m³/d RO

Aguilas, Murcia, Spain, 210,000 m³/d RO

Honaine, Algeria, 200,000 m³/d RO

Alicante I & II, Spain, 120,000 m³/d RO

Skikda, Algeria, 100,000 m³/d RO

Santa Cruz, Tenerife, Spain, 21,000 m³/d RO

Formentera, Spain, 7,000 m³/d RO

Plant Supplier (Desal)

SWRO Bajo Almanzora, Cuevas de Almanzora, Spain 2022, 60,000 m³/d RO

BWRO Cuevas de Almanzora expansion, Almeria, Spain 2017, 15,000 m³/d RO
 Mantoverde, Chile 2012, 24,000 m³/d RO
 Ashdod, Israel, 384,000 m³/d RO
 Southern Seawater Desalination Plant, Binningup, Western Australia, Australia, 306,000 m³/d RO
 IPW Sohar, Oman, 250,000 m³/d RO
 Aguilas, Murcia, Spain, 210,000 m³/d RO
 Honaine, Algeria, 200,000 m³/d RO
 Abrera, Barcelona, Spain, 200,000 m³/d EDR
 WWTP La Gavia, Madrid, Spain, 129,600 m³/d Other / Unknown
 Skikda, Algeria, 100,000 m³/d RO
 WWTP La Reguera, Madrid, Spain, 80,000 m³/d UV
 WWTP Melilla, Spain, 23,000 m³/d UF
 Newman, Western Australia, Australia, 16,500 m³/d RO
 WWTP Valle Guerra, Tenerife, Spain, 15,000 m³/d MBR
 Bahía de Alcudia, Mallorca, Spain, 14,000 m³/d RO
 Repsol Cartagena, Cartagena, Spain, 12,000 m³/d RO
 WWTP Llanes, Spain, 8,500 m³/d UV
 Formentera, Spain, 7,000 m³/d RO
 Pulpi, Almeria, Spain, 6,000 m³/d RO
 Nules, Castellon, Spain, 6,000 m³/d RO
 Janubio, Lanzarote, Spain, 5,000 m³/d RO
 Djerba, Tunisia, 5,000 m³/d RO
 WWTP Tres Cantos, Madrid, Spain, 4,500 m³/d UV
 Calpe, Alicante, Spain, 4,000 m³/d RO
 Burriana, Castellon, Spain, 4,000 m³/d RO
 WWTP La Franca, Spain, 1,800 m³/d
 WWTP Garcia Carrion, Villanueva de los Castillejos, Spain, 1,200 m³/d MBR
 WWTP Helados Alacant, Spain, 700 m³/d MBR
 WWTP Power Plant Puente Genil, Spain, 100 m³/d MBR

Karbala Refinery Project - Waste Water Treatment Package, Karbala, Iraq 2015, 12,672 m³/d RO
 Tampa Electric Polk Power Station-Reclaimed Water Project (TECO RTP) - Expansion, United States 2015, 7,571 m³/d RO
 Tampa Electric Big Bend Station Unit 1 RO System Upgrade Project, United States 2015, 3,785 m³/d RO
 Tampa Electric Polk Power Station-Reclaimed Water Project (TECO RTP) - Expansion (3rd RO Train), Mulberry, Florida, United States 2015, 2,347 m³/d RO
 Shuqaiq Steam Power Plant (SSPP) – Seawater Desalination & Potable Water Treatment System, Red Sea Coast in Saudi Arabia, Saudi Arabia 2014, 3,596 m³/d RO
 Tampa Electric Big Bend Station Unit 1 RO System Upgrade Project, Gibsonton, Florida, United States 2014, 1,037 m³/d RO
 Milpo Cerro Lindo Desal. Plant- Expansion II, Jahuay Beach, Peru 2014, 1,036 m³/d RO
 Pass 1 SWRO Train G & Pass 2 BWRO Trains G and H, Trinidad, Trinidad and Tobago 2013, 57,734 m³/d RO
 Water Treatment Plant (WTP) Improvements -NSID, North Springs, FL, United States 2013, 25,594 m³/d RO
 Saudi Elastomers Project -U&O/CB and MTBE Decomposition Facilities - Demineralized Water Units, Al-Jubail, Saudi Arabia 2013, 11,040 m³/d ED
 Palm Coast Water Treatment Plant No.2 Concentrate Zero Liquid Discharge (ZLD), United States 2013, 7,571 m³/d MF/UF
 P1044 Camp Pendleton Advanced Water Treatment Plant - RO System, Military Base -Southern of CA, United States 2013, 6,965 m³/d RO
 Clearwater Water Treatment Plant No.2- Contract 4: RO Plant Site Expansion Project, Clearwater, FL, USA, United States 2013, 6,624 m³/d RO
 Saudi Elastomers Project -U&O/CB and MTBE Decomposition Facilities - Demineralized Water Units, Al-Jubail, Saudi Arabia 2013, 5,640 m³/d Other
 PetroAmazonas -Paka Sur Plant -WWT package, Ecuador 2013, 1,666 m³/d Other
 Potable Water Plant Modernization, U.S. Navy Support Facility, Diego Garcia, US Navy Base - Diego Garcia Island (British Overseas Territory in the Indian Ocean), United States 2013, 1,211 m³/d NF
 Saudi Elastomers Project -U&O/CB and MTBE Decomposition Facilities - Secondary Wastewater Treatment Unit, Al-Jubail, Saudi Arabia 2013, 871 m³/d RO
 Saudi Elastomers Project -U&O/CB and MTBE Decomposition Facilities - Secondary Wastewater Treatment Unit, Al-Jubail, Saudi Arabia 2013, 420 m³/d RO
 RPLC (Refinería Puerto La Cruz) Deep Conversion Project - Utility Units- WWT, Puerto La Cruz, Edo. Anzoátegui, Venezuela 2013, Other
 Palm Coast Water Treatment Plant No.2 Concentrate Zero Liquid Discharge (ZLD), Palm Coast, FL, United States 2013, Other
 Coral Springs BWRO WTP, United States 2012, 25,551 m³/d RO
 Ammonia and Urea, Mary, Turkmenistan 2012, 22,032 m³/d RO
 Tampa Electric Polk Power Station-Reclaimed Water Project (TECO RTP) - Expansion, United States 2012, 18,927 m³/d RO
 Tampa Electric Polk Power Station-Reclaimed Water Pjt (TECO RTP), Mulberry, FL, United States 2012, 18,184 m³/d RO
 California Valley Solar Ranch - Water System (CVSR-WS), Santa Margarita, CA,, United States 2012, 77 m³/d RO
 Shoaibah II -CCPP, Saudi Arabia 2012, Other
 Ecopetrol, Colombia, 60,566 m³/d UF/BWRO
 Santa Clara, United States, 30,283 m³/d RO
 NSID RO WTP Improvements, United States, 25,551 m³/d BWRO
 Tampa Electric Polk Power Station-Reclaimed Water Project (TECO RTP), United States, 9,085 m³/d BWRO
 Prisión Federal Islas Marías - Project I, Mexico, 1,236 m³/d SWRO

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SELECTED REFERENCES

Equipment Supplier

San Pedro Water Treatment Plant -Containerized SWRO Plant, Ambergris Caye, Belize 2018, 3,785 m³/d RO
 Nghi Son 2 Thermal Power Plant Project - Water Treatment Plant, Vietnam 2018, 1,507 m³/d RO
 PREPA San Juan Steam Plant (SSSP)-Advance Water Treatment Systems Project, Puerto Rico 2017, 7,571 m³/d RO
 UMM Al Houli IWPP - Water & Wastewater Treatment System(also known as Qatar Facility D), Doha, Qatar 2015, 284,000 m³/d RO
 Fargo Membrane WTP and Improvements, Fargo, North Dakota, United States 2015, 47,313 m³/d RO
 Desalcott Expansion -SWRO Train H, Trinidad and Tobago 2015, 29,523 m³/d RO
 Terminal Island Water Reclamation Plant (TIWRP) Advanced Water Purification Facility (AWPF) Ultimate Expansion - RO System, San Pedro, California, United States 2015, 22,710 m³/d RO

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SELECTED REFERENCES

Desalination Systems Supplier

New Build Cruise Ship, Germany 2016, 2,400 m³/d RO
 Naval Retrofit - 16 x 35 m³/d, Australia 2016, 560 m³/d RO
 HMS Scott, Naval Ship, United Kingdom 2015, 30 m³/d RO
 New Build Research Ship, Italy 2015, 15 m³/d RO
 New Build Cruise Ship, Germany 2014, 2,400 m³/d RO
 HMS Ocean, Naval Ship, United Kingdom 2014, 300 m³/d RO
 New Build Patrol Vessels, Malaysia 2014, 240 m³/d RO
 V Class, Submarine, United Kingdom 2014, 36 m³/d RO
 FPSO, United Kingdom 2014, 30 m³/d RO
 RFA Fort Victoria, Support Ship, United Kingdom 2013, 160 m³/d RO
 CNR Tiffany, Offshore Oil Platform, United Kingdom 2013, 160 m³/d RO
 New Build Cruise Ship, Germany 2012, 2,400 m³/d RO
 Cruise Ship, United States 2012, 800 m³/d RO
 Dairy, Cheshire, United Kingdom 2012, 777 m³/d RO
 CVF Aircraft Carrier, United Kingdom 2012, 525 m³/d RO
 Naval, Portsmouth, United Kingdom 2012, 80 m³/d RO
 Oil Rig, Offshore, United Kingdom 2012, 65 m³/d RO
 Oil Rig, Offshore, United Kingdom 2012, 45 m³/d RO
 Oil Rig, Offshore, United Kingdom 2012, 18 m³/d RO
 Total A15, Offshore Oil Platform, Netherlands 2012, 15 m³/d RO
 Montrose BLP, Offshore Oil Platform, United Kingdom 2012, 12 m³/d RO
 Naval, Portsmouth, United Kingdom 2012, 3 m³/d RO
 Windfarm, Netherlands 2012, 1 m³/d RO
 United Kingdom 2012, NF

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SELECTED REFERENCES

Plant Supplier

Takreer RRE Project 3 U&O, Abu Dhabi, United Arab Emirates 2014, 33,600 m³/d MSF
 Asan New City Sewage Reuse Project, Asan, South Korea 2014, 27,000 m³/d RO
 Q PJT (Phase-1) UPW/Reclaim System, Tangjung, South Korea 2014, 20,000 m³/d RO
 SEC Kiheung K1 UTI, Hwasung, South Korea 2014, 12,000 m³/d RO

SEMV WWT Project, Thai Nquyen, Vietnam 2014, 10,800 m³/d RO

SEC Hwasung 16 Line Acid/Alkali Reuse, Hwasung, South Korea 2014, 3,920 m³/d RO

SEC Semicon Xian TEN PJT, Xian, China 2014, 3,000 m³/d RO

SEC Semicon Xian TEN UPW PJT, Xian, China 2014, 1,248 m³/d RO

SEC Semicon Xian M Project PH-2, Xian, China 2013, 4,000 m³/d RO

SSL PH-1, Suzhou, China 2012, 27,000 m³/d RO

Recycle Phase II, Tangjung, South Korea 2012, 25,000 m³/d RO

SDC A2E, Tangjung, South Korea 2012, 20,000 m³/d RO

SEC Semicon Xian M Project, Xian, China 2012, 12,000 m³/d RO

SEC Hwasung 16Line B2, Hwasung, South Korea 2012, 7,800 m³/d RO

SEC Onyang Plant EXP-5, Onyang, South Korea 2012, 2,400 m³/d RO

A2 Phase II, Tangjung, South Korea 2011, 45,000 m³/d RO

V-1 Phase I, Tangjung, South Korea 2011, 30,000 m³/d RO

A2 Phase I, Tangjung, South Korea 2011, 20,000 m³/d RO

SCP 2 Phase III, Tangjung, South Korea 2011, 4,300 m³/d RO

Recycle Phase I, Tangjung, South Korea 2010, 10,000 m³/d RO

C 5.6L TI-CU Capa-up, Cheonan, South Korea 2010, 5,500 m³/d RO

15L Acid/Alkali Recovery, Hwasung, South Korea 2010, 4,489 m³/d RO

C 6L PLS 15K Capa-up, Cheonan, South Korea 2010, 2,500 m³/d NF

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SELECTED REFERENCES

EPC Contractor

Muara Tawar Combined Cycle Power Plantblock 2,3 & 4 add-on project, Muara Tawar, Indonesia 2018, 2,000 m³/d MSF (Multi-stage Flash)

PLN/Hutama Karya, Muara Tawar, Indonesia 2018, 2,000 m³/d MSF (Multi-stage Flash)

PLN/MHPS, Tanjung Priok, Indonesia 2017, 300 m³/d MED

Shoabiah 2, Saudi Arabia 2015, 91,200 m³/d MED

AJ2 C4 Rehabilitation, Saudi Arabia 2014, 231,000 m³/d MSF (Multi-stage Flash)

Salalah Metanol Project, Salalah, Oman 2013, 4,560 m³/d MED

Hawar, Bahrain 2013, 300 m³/d MED

Cilacap RFCC Project, Cilacap, Indonesia 2012, 27,090 m³/d MSF

Guacolda, Chile 2012, 1,584 m³/d VC

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SELECTED REFERENCES

EPC Contractor

Adeje Arona WWTP - Expansion Phase 2, Arona, Tenerife, Spain 2012, 8,000 m³/d Tertiary treatment

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SAWACO Water Desalination is a member of Saudi Brothers Commercial Group (SBCG) and a cornerstone in water-related activities of this Saudi-based Group. SAWACO is the first private water utility established in Saudi Arabia under license by Ministry of Water in the year 2000 well before IWPP and PPP initiatives were launched.

SAWACO is certified by internationally recognized quality, environment, health & safety management systems and standards such as ISO9001: 2015, ISO14001: 2015, OHSAS18001: 2007 & HACCP

SAWACO currently owns over 50,000m³/d of desalination capacity, with its multi-plants under 24 hours operation. In June 2021, SAWACO launched its new decentralised business venture: SAWACO International Water, with 6x1,500m³/d compact SWRO plants and 4x1,000m³/d BWRO plants. These plants have begun operation on a lease basis in KSA.

SAWACO has a sizeable fleet of trucks fitted with stainless steel tankers Grade 316-L conforming to HACCP requirement. The ample storage facility of Post-Tensioned Reinforced Concrete water tanks avoid ion exchange between water and tank, and the inner surface of the tanks are coated with food grade epoxy.

SAWACO produces and distributes water for different uses and customer classes. SAWACO assures that quality water surpasses standards set by World Health Organization and Saudi Arabian Standard Organization.

SAWACO has a sizeable fleet of trucks fitted with stainless steel tankers Grade 316-L conforming to HACCP requirement. The ample storage facility of Post-Tensioned Reinforced Concrete

SELECTED REFERENCES

Contractor

Ras Al Khair BWRO Plant, Al Jubail, Ras al Khair (Maaden Site), Eastern Region, KSA, Saudi Arabia 2022, 3,000 m³/d RO

Ras Al Khair SWRO Plant, Al Jubail, Ras al Khair (Maaden Site), Eastern Region, KSA, Saudi Arabia 2022, 3,000 m³/d RO

Developer and O&M

Store City Plant, Jeddah, Saudi Arabia 2012, 5,000 m³/d SWRO

South Jeddah Corniche Desalination Plant (SOJECO), Jeddah, Saudi Arabia 2010, 16,500 m³/d RO

Rosewood Corniche Hotel, Jeddah, Saudi Arabia 2010, 1,000 m³/d
Corniche Reverse Osmosis Plant (CROP), Jeddah, Saudi Arabia 2007, 4,500 m³/d RO

North Obhur Desalination Plant, Jeddah, Saudi Arabia 2001, 16,850 m³/d RO

Developer/Co-developer

Rabigh 3 IWP, Saudi Arabia 2019, 600,000 m³/d SWRO

Ma'aden, Ras Al Khair, Saudi Arabia 2022, 6,000 m³/d SWRO

Plant Owner

Sawaco Store City Plant (Expansion-CFRO), Jeddah, Western Region KSA, Saudi Arabia 2022, 1,920 m³/d SWRO

Multiple Compact Units, Jeddah, Saudi Arabia 2018, 9,000 m³/d SWRO

Three Emergency Sawaco Plants (Multiple Compact Units), Jeddah, Saudi Arabia 2018, 450 m³/d SWRO

Store City Plant, Jeddah, Saudi Arabia 2017, 5,000 m³/d RO

South Jeddah Corniche (SoJeCo), Jeddah, Saudi Arabia 2013, 16,500 m³/d RO

Corniche Reverse Osmosis Plant (CROP), Jeddah, Saudi Arabia 2007, 4,500 m³/d RO

North Obhur Desalination Plant, Jeddah, Saudi Arabia 2001, 16,850 m³/d SWRO



SAWACO Water Desalination

A member of Saudi Brothers

SAWACO is leading the way in sustainable water management through innovative solutions. As the first private water utility in Saudi Arabia under license by the Ministry of Water in 2000, we have consistently demonstrated our commitment to excellence through internationally recognized quality, environment, health, and safety management systems and standards, including ISO9001: 2015, ISO14001: 2015, OHSAS 18001: 2007, and HACCP.

At the core of our business, we offer BOT and BOO solutions for the provision of desalinated water to both public and private sectors, as well as undertaking operation and maintenance of desalination plants across the MENA region. Our cutting-edge approach is evidenced through our over 50,000 m³/day desalination capacity across multiple plants that operate 24 hours per day. Additionally, our partnership with AcwaPower – Led consortium secured 600,000 m³/day SWRO IWP in Rabigh-3.

Through an extensive network of dedicated pipelines and stainless-steel tanker distribution for off-grid locations, we produce and distribute water for diverse uses and customer classes. At SAWACO, we believe that innovation holds the key to sustainable water management, and we remain committed to pushing the limits of what is possible in service of our customers and the planet.

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SELECTED REFERENCES

Developer and Investor

Persian Gulf Desalination Plant, Bandar Abbas, Iran 2017, 200,000 m³/d RO

Bandar Gaz Desalination Plant, Bandar-e Gaz, Golestan Province, Iran 2016, 2,000 m³/d RO

Eshtehard, Eshtehard, Alborz Province, Iran 2015, 5,000 m³/d RO

Siraf Desal Plant, Siraf, Iran 2015, 1,000 m³/d RO

Kish Desalination Plant, Kish, Iran 2014, 5,000 m³/d RO

Bandar Lengeh desalination plant, Bandar Lengeh, Hormozgan Province, Iran 2012, 6,000 m³/d RO

Abadan desalination plant, Iran, 12,500 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Hubei Sanning Chemical Co., LTD. desalination system project, Hubei, Yichang, China 2022, 45,600 m³/d UF

Wanhua Chemical new material condensate and desalted water station project, Shandong, Yantai, China 2022, 21,600 m³/d UF

EPC Contractor, Equipment Supplier

Beijing Changping New City Regeneration Water Plant, Beijing, China 2015, 22,000 m³/d UF

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SELECTED REFERENCES

Desalination Plant Owner

Salalah Independent Water and Power Plant, Oman 2012, 68,190 m³/d RO

Developer

Fujairah, United Arab Emirates 2012, 136,000 m³/d RO

Wastewater Reuse BOO

Changzhi Industrial Water Plant, Changzhi, Shanxi, China 2013, 1,267,200 m³/d Sand filtration

Changzhi Reclaimed Water Plant, China 2013, 38,400 m³/d RO

Changzhi Industrial Wastewater Plant, Changzhi, Shanxi, China 2013, 35,040 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Rabigh 4 IWP, Rabigh, Western Region, Saudi Arabia 2023, 600,000 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Satellite SWRO desalination plants, Various location - West Coast of SA, Saudi Arabia 2019, 238,000 m³/d RO

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SELECTED REFERENCES

Plant Supplier

Limetree Bay Terminals Expansion, St. Croix, U.S. Virgin Islands 2019, 6,341 m³/d RO

Aquas de Bayovar, Piura, Peru 2016, 10,220 m³/d RO

Richmond Estate Power Plant Land Based Facility, St. Croix, U.S. Virgin Islands 2012, 14,004 m³/d RO

Randolph E Harley Power Plant Land Based Facility, St. Thomas, U.S. Virgin Islands 2011, 12,490 m³/d RO

Limetree Bay Terminals, St. Croix, U.S. Virgin Islands 2011, 2,462 m³/d RO

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www.shanghaipower.com/power/

SELECTED REFERENCES

Plant Supplier (Desal)

Conch Group Yiyang Reuse of reclaimed water, Shangrao city, Yiyang County, China 2022, 1,440 m³/d RO

Lupsa 800MW Combined Cycle Power Station, Lupsa, Bangladesh 2021, 5,400 m³/d RO

Yulong Refining and chemical integration (Stg. 1) Desalination PC, Longkou city, Huangshanguan Town, China 2022, 80,000 m³/d MED

Yulong Refining and chemical integration (Stg. 1) Desalination PC, Longkou city, Huangshanguan Town, China 2022, 80,000 m³/d RO

Tangshan, Hebei, China 2021, 50,000 m³/d RO

Sierbang Petrochemical, China 2020, 45,000 m³/d RO

Dongguan Zhongtang, China 2020, 28,800 m³/d RO

Shante Power Plant, China 2020, 13,000 m³/d RO

Zhoushan Phase II, China 2019, 200,000 m³/d MED

Zhoushan petrochemical project, Zhejiang, China 2019, 15,000 m³/d RO

Srbija Power Plant, Serbia 2019, 8,640 m³/d Other / Unknown

Thar Power Plant, Pakistan 2019, 6,240 m³/d RO

Noor Energy CSP, Dubai, United Arab Emirates 2019, 3,600 m³/d RO

Missan Power Plant, Iraq 2019, 1,440 m³/d RO

Sylhet Power Plant, Bangladesh 2019, 960 m³/d RO

Zhoushan Phase I, China 2018, 105,000 m³/d MED

Hebei Fengyue SWRO Project, Tangshan, Hebei, China 2018, 75,000 m³/d RO

Medan KIM Industry Park SWRO Project, Medan, North Sumatra, Indonesia 2018, 6,552 m³/d RO

Colon Gas Turbine, Panama 2018, 3,168 m³/d RO

Aden Phase II, Yemen 2018, 2,160 m³/d MED

Feng Huang Mountain ZLD, China 2018, 840 m³/d Other / Unknown

Jin Ling River ZLD, China 2018, 480 m³/d ED

Li Gang Power Plant, China 2018, 192 m³/d Other / Unknown

Zhejiang Petroleum & Refinery Company, Ningbo, Zhoushan, China 2017, 105,000 m³/d MED

Hebei Fengyue MED Project, Tangshan, Hebei, China 2017, 25,000 m³/d MED

PMB, Brunei, Brunei 2016, 37,500 m³/d MED

Hengyi PBM Petrochemical MED Project, Pualu Muara Besar, Serasa, Brunei 2016, 37,500 m³/d MED

Hebei Qinhuang Island desalination project for thermal power plant, Qinghuang Island, Hebei, China 2016, 6,000 m³/d MED
Qinghuang Dao Thermal Power Plant, China 2016, 6,000 m³/d MED

Yangxi Power Plant Phase II RO project, Guangdong, China, Yangxi, Guangdong, China 2016, 4,128 m³/d RO

Aden Phase II, Yemen 2016, 2,160 m³/d MED

Balingian Power Plant, Malaysia 2015, 3,312 m³/d Other / Unknown

Balingian 2x300MW Power plant RO project, Balingian, Sarawak, Malaysia 2015, 3,312 m³/d RO

Bao Steel Zhangjiang Manufacturement Base, Zhanjiang, Donghai Island, China 2014, 30,000 m³/d MED

Wsait Phase II, Iraq 2014, 4,800 m³/d RO

PCPC Power Plant SWRO Project, Concepcion, Iloilo, Philippines 2014, 2,640 m³/d RO

Concepcion Coal Fired Power Plant, Barangay Nipa, Panay Island, Philippines 2014, 2,640 m³/d RO

Yemen Refinery and Chemical Plant, Aden, Yemen 2014, 2,160 m³/d MED

Wassit Power Plant RO Project, Zobidia, Wassit, Iraq 2013, 4,800 m³/d RO

Guohua Power Plant Phase III, Cangzhou, Hebei Province, China 2012, 25,000 m³/d MED

Plant Supplier (Reuse)

Guangxi Huayi Chlor Alkali Chemical Co., Ltd, Qinzhou, Qinzhou Part Area of China (Guangxi) Pilot Free Trade Zone, China 2021, 18,000 m³/d Other / Unknown

Zongyang Conch Cement Co., Ltd, Anhui, Zongyang, China 2021, 2,400 m³/d RO

Jianghua Conch cement Co., Ltd, Hunan, Jianghua, China 2021, 600 m³/d RO

Digang Conch Cement Co., Ltd, Anhui, Digang, China 2021, 288 m³/d ED

Chaohu Conch Cement Co., Ltd, Anhui, Chaohu, China 2021, 216 m³/d ED

Xuancheng Conch Cement Co., Ltd, Anhui, Xuancheng, China 2021, 144 m³/d ED

NanTong, Jianguo, China 2020, 17,280 m³/d RO

Shanghai SafBon Water Service



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Plant Supplier (Desal)

Novel Pretreatment Process for Seawater Desalination in Yingkou, Yingkou, Liaoning Province, China 2018, 100,000 m³/d RO

Cangzhou Seawater Reverse Osmosis Desalination Plant Project (100,000 t/d), Bohai Development Zone, Cangzhou, Hebei Province, China 2014, 50,000 m³/d RO

Hebei, China 2013, 50,000 m³/d RO

Water Supply Project, Jinzhou, Liaoning Province, China, 250,000 m³/d Other / Unknown

Xingyi Municipal Supply Water Project, Xingyi, Guizhou Province, China, 30,000 m³/d Other / Unknown

Harsh Produced Water Treatment for Shengli Oil Field, Binzhou, Shandong Province, China, 5,000 m³/d RO

Plant Supplier (Reuse)

Reclaimed Water Advanced Treatment for Shouyangshan Power Plant (2x600MW), Shouyangshan, Henan Province, China, 80,000 m³/d Other / Unknown

ZLD for the Uzbekistan Navoi Petrochemical Plant, Uzbekistan, 14,880 m³/d RO

Flue Gas Desulfurization Waste Water Treatment for Yongji Power Plant (2x300MW), Yongji, Shanxi Province, China, 2,640 m³/d Other / Unknown

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SIDEM, a subsidiary of Veolia Water Technologies, has over 100 years of experience in desalination dating back to the first thermal desalination units in the 1890's.

Benefiting from references of hundreds of running facilities around the world, SIDEM is committed to delivering reliable desalination plants that meet customers' expectations in terms of quality, delivery time and cost. SIDEM can rely on its regional offices (Abu Dhabi, Saudi Arabia, India, etc) and on other Veolia Water Technologies entities to provide local commercial support and engineering services, as well as resources in field activities

With a total of 6,000,000 m³/day of SWRO and MED installed capacity, SIDEM combines proven expertise with unsurpassed innovation for both technologies. R&D has always been SIDEM's strategic priority. From detailed process parameters to materials selection, continuous efforts are made to develop innovative solutions for the benefit of our customers. With its new disruptive, safe, compact and digital RO technology, the BARREL™, and its advanced pre-treatment solutions for SWRO plants, SIDEM has enabled the drastic reduction of plants' footprints and the significant decrease of electrical and chemical consumption as well as the overall improvement in plant performance.

SELECTED REFERENCES

EPC Contractor

Mirfa 2, Mirfa, United Arab Emirates 2023, 545,520 m³/d RO

Sur Barrel B7, Sur, Oman 2019, 5,000 m³/d RO

Equipment Supplier: Desalination System

St Barth Barrel B7, Gustavia, French West Indies, Saint Barthelemy 2023, 4,700 m³/d RO

Glenties Barrel B1, Donegal, Ireland 2023, 2,500 m³/d Other / Unknown

Sawani Barrel B1, Shaqra, Saudi Arabia 2023, 1,000 m³/d Other / Unknown

St Fraimbault Barrel B1, Saint-Fraimbault, France 2023, 580 m³/d Other / Unknown

SWA Mining Barrel B1 & B3, Australia 2022, 9,600 m³/d Other / Unknown

Jourdain Barrel B3, Vienne, France 2022, 3,600 m³/d Other / Unknown

Sydney Barrel B1, Sydney, Australia 2022, 580 m³/d Other / Unknown

St Barth Barrel B1, Gustavia, French West Indies, Saint Barthelemy 2020, 800 m³/d RO

St Martin Barrel B1, Marigot, French West Indies, Saint Martin
2017, 800 m³/d RO

Membrane Desalination: Design and Build

Umm Al Quwain, United Arab Emirates 2019, 681,800 m³/d RO
 Rabigh 3 IWP, Rabigh, Saudi Arabia 2019, 600,000 m³/d RO
 Al Dur 2 IWPP, Al Dur, Bahrain 2019, 227,000 m³/d RO
 Sharqiyah Desalination - Expansion, Sur, Oman 2015, 48,000 m³/d RO
 BWSIP P3 & P4, Basrah, Iraq 2014, 199,000 m³/d RO
 Masdar - Renewable Energy Desalination Program, Abu Dhabi, United Arab Emirates 2014, 300 m³/d RO
 Sadara (Marafiq) SWRO, Al Jubail, Saudi Arabia 2013, 178,800 m³/d RO
 Aruba desalination plant, Aruba 2012, 24,000 m³/d RO
 Az Zour South SWRO, Kuwait 2011, 136,000 m³/d RO

Thermal Desalination: Design and Build

Ras Lanouf, Libya 2019, 16,000 m³/d MED
 WHR + CFP (ADNOC), Abu Dhabi, United Arab Emirates 2018, 48,800 m³/d MED
 Shougang - Unit 5, Caofeidian, China 2016, 35,000 m³/d Thermal
 Az Zour North 1 IWPP, Kuwait 2013, 490,970 m³/d Thermal
 Yanbu 2, Saudi Arabia 2011, 63,348 m³/d MED
 MAEK Kazatomprom, Aktau, Kazakhstan 2010, 24,000 m³/d MED

Singapore Technologies Marine Ltd



www.stengg.com

SELECTED REFERENCES

Developer, EPC Contractor and Operator

Singapore 2017, 136,380 m³/d RO

EPC Contractor

Singapore 2015, 22,730 m³/d RO

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EPC Contractor

Doha Industrial Area WWTP - Expansion, Qatar 2014, 30,000 m³/d SBR/UF/UV

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SELECTED REFERENCES

EPC Contractor

Solapur WWTP 1, Maharashtra, India 2012, 75,000 m³/d Tertiary treatment

Solapur WWTP 2, Maharashtra, India 2012, 15,000 m³/d Tertiary treatment

Solapur WWTP 3, Maharashtra, India 2012, 12,500 m³/d Tertiary treatment

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San Agustín de Guadalix WWTP - Expansion, San Agustín de Guadalix, Spain 2012, 1,500 m³/d Tertiary treatment

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Developer

Sohar, Oman 2016, 250,000 m³/d RO

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www.raadab.org

www.raadab.net

SELECTED REFERENCES

Investment and Operation

Torkman & Gomishan, Bandar Torkaman, Iran 2014, 7,600 m³/d RO

Zahedan-2, Zahedan, Sistan and Baluchestan, Iran 2013, 2,500 m³/d RO

Sparkle Clean Tech Pvt. Ltd.



www.sparklecleantech.com

SELECTED REFERENCES

Desalination/Wastewater Reuse System Supplier

Water ReInjection Plant #1, India, 5,000 m³/d UF

Water ReInjection Plant #2, India, 5,000 m³/d UF

Industrial Water Reuse Plant, India, 540 m³/d RO

Automobile ZLD Plant, India, 300 m³/d RO

Textile Factory BWRO, India, 36 m³/d RO

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Limassol, Cyprus 2012, 20,000 m³/d RO

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A major player in environmental services for over 160 years, SUEZ works every day to support local authorities and industry in managing the essential services of water and waste. The Group deploys all its capacity for innovation to serve a radically new form of resource management: optimizing resources use by exploiting the full potential of new and digital technologies, recycling, recovering value, producing secondary raw materials and alternative resources, etc.

The team of SUEZ is 40,000 women and men, with passion for and commitment to the planet, with a French base and a large international presence that we will continue to successfully strengthen and expand.

Innovation & Partnerships

SUEZ is leading cutting-edge innovation in the environmental sector with 9 R&D Centers, with solutions based on data analysis and data exploitation as well as nature-based solutions. SUEZ's innovation policy is based on various programs and projects managed internally, and with a strong commitment to open innovation.

Key Expertise

Water:

- Engineering & Construction
- O&M
- Smart & sustainable management of water cycle (drinking water & wastewater)
- Smart water solutions & networks performance

Waste:

- Collection
- Treatment
- Recycling and waste recovery to produce secondary raw materials and renewable energy

SELECTED REFERENCES

Plant Supplier (Desal)

Auxerre, France, 2023, (under construction), 33,600 m³/d LPRO

Wanhua Penglai, China 2023, (under construction), 100,000 m³/d RO

Jaffna, Sri Lanka 2021, (under construction), 24,000 m³/d RO



“Our objective:
to make water and sanitation
part of the circular economy”

Sabrina SOUSSAN,
SUEZ Chairman and CEO

“SUEZ Group has been a major player in water for 160 years, how are these businesses changing at present?”

Rapid climate change is prompting us to rethink our methods and models as we take action to combat climate change. Throughout the world, the whole water cycle is being significantly disrupted. Rivers are drying out, the level of the sea is rising owing to the melting of glaciers, precipitation is less frequent but more intense which creates run-off phenomena which prevent the replenishment of underground water reserves and disrupt sanitation networks. Drought episodes are becoming more frequent and the scarcity of resources risks impacting numerous economic sectors, including agriculture and industry. New pollutants have appeared: endocrine disruptors, microplastics, pesticide metabolites, etc. At SUEZ, we are convinced that we must make water and sanitation part of the circular economy. Our bet: promote innovation and digitalization of our businesses and develop new public-private partnership modes.

How can innovation address the major water challenges?

To include water in the circular economy, innovation is essential. This means leveraging digital technology when it rolls out connected smart meters to track consumption. In São Paulo, artificial intelligence is being used to monitor leaks in the water network. This has led to savings of more than 95 million m³ of water since 2007, which is equivalent to the volume of water necessary to supply 660,000 families for one year. Technological innovation also contributes to greater energy sobriety and limits greenhouse gas emissions linked to the production

of drinking water and the processing of wastewater. In the south of France, in Pau, for example, we are transforming a wastewater treatment plant so that it not only processes wastewater, but also produces biomethane or green hydrogen to produce more energy than it consumes. At Gabal El Asfar, in Egypt, we process the wastewater for the 5 million inhabitants in Cairo while also producing the energy for the wastewater plant from sewage sludge. Technological innovation is also key to ensure water reuse and to fight against new forms of pollution such as micropollutants, microplastics, pesticide metabolites, etc. In Shanghai, SUEZ processes and reuses wastewater from a world-leading petrochemical industrial park and is rolling out a patented solution to prevent the propagation of micropollutants in fresh water.

At SUEZ, innovation is also about changing behavior. Our laboratory at Lyre in Bordeaux, which innovates in the quantitative but also the qualitative management of water to limit the impact of urban centers on the environment, has notably adopted a social and societal approach focusing on user practices. But, leveraging technology and social sciences will not be enough: we also need to rethink the ways we cooperate with the different stakeholders.



Elba Islands, Italy 2021, 6,900 m³/d RO
 Saint Jean de Braye, France 2019, 7,200 m³/d LPRO
 Thiant, France 2016, 9,600 m³/d LPRO
 Vicq, France 2016, 12,720 m³/d LPRO
 Barka IV-IWP, Oman 2015, 280,000 m³/d RO
 Hassi Messaoud DW, Algeria 2015, 24,000 m³/d RO
 Hassi Messaoud IW, Algeria 2015, 24,000 m³/d RO
 Mirfa, Abu Dhabi, United Arab Emirates 2014, 136,000 m³/d RO
 Yunnan Petrol, China 2014, 24,000 m³/d RO
 Victorian Desalination Plant, Melbourne, Australia, 2009, 450,000 m³/d RO
 Al Dur, Bahrain 2009, 219,000 m³/d RO
 Perth 1, WA, Australia 2005, 143,000 m³/d RO
 Andratx, Spain 2005, 14,000 m³/d RO
 Bredeah, Algeria 2002, 29,000 m³/d RO
 Salina Cruz - Pemex I, Mexico 1997, 14,256 m³/d RO

Plant Supplier (Reuse)

Worli, India, 2022, (under construction), 500,000 m³/d, 250,000 m³/d for reuse
 K&C Valley, India, 2022, (under construction), 248,000 m³/d
 Orleans (La Source), France, 2020, 2,400 m³/d
 Panki, India, 2019, 40,000 m³/d
 Boneo, Australia, 2018, 31,000 m³/d
 Chapultepec, Mexico, 2016, 15,000 m³/d
 Huai Fang, China, 2015, 600,000 m³/d
 Beenyup, Australia, 2013, 43,000 m³/d RO
 Cannes, France, 2012, 52,000 m³/d
 Adge, France, 2011, 16,000 m³/d
 Chengdu Petro Chemical, China, 2009, 67,000 m³/d
 Cubbon Park, India, 2004, 1,500 m³/d
 Milan San Rocco, Italy, 2002, 345,000 m³/d

Main Contractor

Store City, Jeddah, Saudi Arabia 2017, 5,000 m³/d RO
 SOJECO Desalination plant, Jeddah, Saudi Arabia 2015, 5,000 m³/d RO
 Waste Water Treatment Plant in Dammam 1 Industrial City (WWTP), Dammam, Saudi Arabia 2014, 3,500 m³/d RO
 Salboukh Phase I, Riyadh, Saudi Arabia 2012, 53,040 m³/d RO
 Head Quarters Business Park, Jeddah, Saudi Arabia 2012, 1,300 m³/d RO

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SELECTED REFERENCES

Developer

Ra's az Zawr, Kuwait 2013, 486,400 m³/d MED

Project Sponsor

Al Ghubrah IWP, Muscat City, Oman 2012, 190,932 m³/d RO

Sundt Construction Inc



www.sundt.com

SELECTED REFERENCES

Installation

Greenfield Water Reclamation Plant (South), Gilbert, Arizona, United States, 60,566 m³/d RO
 Butler Water Reclamation Facility, Peoria, Arizona, United States, 37,854 m³/d MBR

Suido Kiko Middle East



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SELECTED REFERENCES

EPC Contractor

Al Kharji BWRO Plant, Al Kharj, Saudi Arabia 2013, 50,000 m³/d RO
 Manfuha Plant 2, Riyadh, Saudi Arabia 2013, 38,400 m³/d RO
 North Obhur, Jeddah, Saudi Arabia 2013, 1,500 m³/d RO
 Al-Iskan Desalination Plant, Kharkheer, Saudi Arabia 2012, 300 m³/d RO
 RO Plant for the Camp, Al Baithe, Saudi Arabia 2012, 300 m³/d RO
 Isuzu Motor-RO Plant, Dammam, Saudi Arabia 2012, 10 m³/d RO

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SELECTED REFERENCES

Engineering, Procurement, Construction and Operations

Pylaia-Chortiatis Iron Removal Plant IRF 125,000, Asvestochori, Central Macedonia, Greece 2020, 3,000 m³/d Other / Unknown

Milopotamos Desalination Plant UF-BWRO 2000CMD, Milopotamos, Crete Island, Greece 2020, 2,000 m³/d RO

Karpathos, Karpathos Island, Aegean Sea, Greece 2020, 1,000 m³/d Other / Unknown

Heraklion, Crete Island, Greece 2020, 900 m³/d MBR

Hersonissos, Crete Island, Greece 2020, 250 m³/d RO

SW 9.000, Ithaca, Ionian Sea, Greece 2020, 200 m³/d RO

Antipaxoi Seawater Desalination SW 3.000, Antipaxoi Island, Ionian Sea, Greece 2020, 80 m³/d RO

Katerini Landfill Site LW 2.000, Katerini, Central Macedonia, Greece 2020, 50 m³/d RO

Heraklion, Crete Island, Greece 2020, 24 m³/d MBR

Heraklion, Crete Island, Greece 2020, 13 m³/d MBR

EPC contractor

Bioenergy MegaraMBR - Ceramic UF - LWRO2500, Megara, Athens, Greece 2022, 60 m³/d RO

TW 65000, Larnaca, Cyprus 2021, 1,500 m³/d RO

DEMI WTP 60000 (4th expansion), Peloponnese, Korinthos, Greece 2021, 1,440 m³/d RO

Wastewater Reuse for Zoniro Golf Course, Ermionida, Kranidi, Greece 2021, 1,400 m³/d

WWRO 50.000, Ermionida, Kranidi, Greece 2021, 1,200 m³/d RO

Boeotia, Oinofyta, Greece 2021, 200 m³/d RO

Larnaca, Cyprus 2021, 150 m³/d RO

Plant Supplier

Halkidiki, Central Macedonia, Greece 2020, 14,400 m³/d Other / Unknown

Halkidiki, Central Macedonia, Greece 2020, 12,000 m³/d Other / Unknown

Asejire Sanitary TWRO 80.000, Nigeria 2020, 1,920 m³/d RO

Asejire Sanitary TWRO 60.000, Nigeria 2020, 1,440 m³/d RO

Mavrorachi Landfill Site 2 x LW 10.000, Thessaloniki, Central Macedonia, Greece 2020, 500 m³/d RO

Agioi Theodoroi, Corinthia, Greece 2020, 360 m³/d Other / Unknown

Mykonos, Mykonos Island, Aegean Sea, Greece 2020, 150 m³/d RO

Thesprotia, Epirus, Greece 2020, 150 m³/d RO

Siteia Landfill Site LW 2.000, Sitia, Crete Island, Greece 2020, 50 m³/d RO

Neutralization Skid, Chalkidiki, Greece 2019, 13,200 m³/d RO

Pakistan RO Plant, Pakistan 2019, 10,000 m³/d RO

SF300000, Limassol, Cyprus 2019, 7,200 m³/d RO

Thisvi RO Plant, Greece 2019, 2,880 m³/d RO

Ghana RO Plant, Ghana 2019, 2,600 m³/d RO

Sanitary TWRO 35000, Shimatari, Viotia, Greece 2019, 840 m³/d RO

BW28000 Leasing, Heraklion, Crete Island, Greece 2019, 675 m³/d RO

Wastewater Treatment Expansion, Heraklion, Crete, Greece 2019, 600 m³/d MBR

SW 22000 Leasing, Lerapetra, Crete Island, Greece 2019, 550 m³/d RO

SW2X25000 Leasing, Milaki, Evia, Greece 2019, 500 m³/d RO

DEMI WTP10, Limassol, Cyprus 2019, 432 m³/d RO

BW12000-IND-C, Imathia, Greece 2019, 290 m³/d RO

SW 8.300 Expansion 2019, Argolida, Peloponnisos, Greece 2019, 200 m³/d RO

Wastewater Treatment Expansion, Heraklion, Crete Island, Greece 2019, 190 m³/d MBR

BW6000, Heraklion, Crete Island, Greece 2019, 150 m³/d RO

SW6000 Leasing, Mykonos Island, Greece 2019, 150 m³/d RO

LW 3000 - 80 CMD, Annaba, Azzaba, Guelma, Algeria 2019, 80 m³/d RO

SW4000U-IDN-F Leasing, Mykonos Island, Greece 2019, 80 m³/d RO

SW1.200 CMD, Ecuador 2018, 1,200 m³/d RO

DW1.080CMD, Ecuador 2018, 1,080 m³/d RO

SW43.000, Grand Canaria, Spain 2018, 1,032 m³/d RO

SW43.000, Ghana 2018, 1,000 m³/d RO

SW43.000, Ecuador 2018, 1,000 m³/d RO

SW25.000, Heraklion, Crete Island, Greece 2018, 600 m³/d RO

BW15.000, Heraklion, Crete, Greece 2018, 360 m³/d RO

Arina Desalination Plant SW10.000, Heraklion, Crete, Greece 2018, 240 m³/d RO

BW6.000, Heraklion, Crete, Greece 2018, 150 m³/d RO

Proteas Desalination Plant, Santorini, Greece 2018, 5,000 m³/d RO

Almyros Desalination Plant 2xBW65.000, Heraklion, Crete, Greece 2018, 3,000 m³/d RO

Foinikia Desalination Plant BW85.000, Heraklion, Crete, Greece 2018, 2,000 m³/d RO

WWRO80.000, Southern California, United States 2018, 1,920 m³/d UF

Motor Oil Refineries, Corinthia, Greece 2017, 11,830 m³/d RO

Amandi Power Plant, Demi Water Treatment Plant, Aboadze, Western Region, Ghana 2017, 2,600 m³/d RO

Amandi Power Plant, Demi Water Treatment Plant, Aboadze, Western Region, Ghana 2017, 1,920 m³/d RO

WTP, Malevizi, Greece 2017, 720 m³/d RO

WW17.000, Rethymno, Crete Island, Greece 2017, 400 m³/d UF

SW16.000 Leasing, Corfu Island, Ionian Sea, Greece 2017, 384 m³/d RO

Sacramento, United States 2017, 240 m³/d RO

BW8.000 Expansion 2017, Argolida, Peloponnese, Greece 2017, 192 m³/d RO

Enesel SW6.000, Spetses Island, Greece 2017, 150 m³/d RO

SW6.000 Expansion, Mykonos Island, Greece 2017, 150 m³/d RO

BW4.000, Rethymno, Crete Island, Greece 2017, 100 m³/d RO

SW3.000, Naxos Island, Greece 2017, 75 m³/d RO

Kalamata, Greece 2017, 50 m³/d RO

Pella, Greece 2017, 45 m³/d RO

Quriyat Ultra Filtration Plant, Oman 2016, 20,000 m³/d Other / Unknown

Water Treatment Plant, Taman, Temryuksky District, Russia 2016, 11,000 m³/d RO

Aseelah Desalination Plant, Al Ashkharah, Oman 2016, 10,000 m³/d RO

BW Expansion 2016, Agioi Theodoroi, Corinthia, Greece 2016, 1,200 m³/d RO

Water Treatment Plant, Koh Sichang, Sichang Island, Thailand 2016, 1,000 m³/d RO

Water Treatment Plant, Paxos Island, Ionian Sea, Greece 2016, 900 m³/d RO

Water Treatment Plant, Agioi Theodoroi, Corinthia, Greece 2016, 600 m³/d RO

Water Treatment Plant, Thira, Cyclades, Greece 2016, 280 m³/d RO

Demi Water Treatment Plant, Teesside, Middlesbrough, United Kingdom 2016, 240 m³/d RO

Demi Water Treatment Plant, Afam, Rivers State, Nigeria 2016, 140 m³/d RO

WTP Expansion 2015, Agioi Theodoroi, Corinthia, Greece 2015, 2,100 m³/d RO

Water Treatment Plant, Corfu Island, Ionian Sea, Greece 2015, 1,000 m³/d RO

Water Treatment Plant, Manila, Philippines 2015, 1,000 m³/d RO

Water Treatment Plant, Alonnisos Island, Sporades, Greece 2015, 500 m³/d RO

Water Treatment Plant, Safaga, Red Sea Governorate, Egypt 2015, 500 m³/d RO

Water Treatment Plant, Skydra, Pella, Greece 2015, 400 m³/d RO

Demi Water Treatment Plant, Lisbjerg, Aarhus, Denmark 2015, 400 m³/d RO

Water Treatment Plant, Paliouri, Chalkidiki, Greece 2015, 300 m³/d RO

Water Treatment Plant, Oinofyta, Boeotia, Greece 2015, 230 m³/d RO

WTP Pilot Unit, Olympiada, Chalkidiki, Greece 2015, 200 m³/d RO

Water Treatment Plant, Trikala, Greece 2015, 140 m³/d RO

8 mobile gas turbine power generating sets, (Fast Track), Algeria 2014, 3,072 m³/d RO

Opera Project, Kuwait 2014, 2,400 m³/d RO

Temporary Water Treatment Plant, Mykonos Island, Greece 2014, 1,800 m³/d RO

Potabilization unit for the Sunti Project, Mokwa, Nigeria 2014, 720 m³/d RO

Opera Project, Kuwait 2014, 600 m³/d RO

24 Mobile Gas Turbine power generating sets, Algeria 2013, 9,000 m³/d RO

CEEG Phase V Project in Algeria, Mobile Pac, Algeria 2013, 7,680 m³/d RO

Motor Oil Hellas Expansion, Greece 2013, 3,360 m³/d RO

Motor Oil Hellas Expansion, Greece 2013, 3,000 m³/d RO

CEEG Phase IV Project in Algeria, Mobile Pac, Tindouf, Algeria 2013, 2,180 m³/d RO

Almyros Desalination and Educational Park, Heraklion, Crete, Greece 2013, 2,000 m³/d RO

Rom Oil Mills Limited, Ibadan, Oyo State, Nigeria 2013, 1,600 m³/d RO

Samra Power Station, Phase III Add on combined cycle Project, Jordan 2013, 720 m³/d RO

Water Treatment Plant, Kimolos Island, Greece 2013, 600 m³/d RO

Water Treatment Plant, Lipsoi Island, Greece 2013, 600 m³/d RO

Rom Oil Mills Limited, Ibadan, Oyo State, Nigeria 2013, 360 m³/d RO

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SELECTED REFERENCES

EPC Contractor

TAM, Tolip Taba, Egypt 2019, 500 m³/d RO

Dabaa, Marsa Matrouh, Egypt 2018, 40,000 m³/d RO

Ras Sedr, South Sinai, Egypt 2018, 30,000 m³/d RO

Abu Zenima, South Sinai, Egypt 2018, 20,000 m³/d RO

Dahab, South Sinai, Egypt 2018, 15,000 m³/d RO

Four Seasons, Sharm El Shiekh - South Sinai, Egypt 2018, 2,000 m³/d RO

TAM BOO, Koraya (Marsa Alam), Egypt 2018, 2,000 m³/d RO

TAM C1, Tolip Taba, Egypt 2018, 500 m³/d RO

TAM BOO C3, Koraya (Marsa Alam), Egypt 2017, 500 m³/d RO

Ain Sokhna, Egypt 2016, 206,000 m³/d RO

Grand Azur (Rexos), Sharm El Sheikh, Egypt 2016, 1,600 m³/d RO

Dabaa Desalination Plant, Al-Dabaa, Egypt 2015, 170,000 m³/d RO

Emak Port Ghalib, Marsa Alam, Egypt 2015, 600 m³/d RO

Remila, Marsa Matrouh, Egypt 2014, 48,000 m³/d RO

El Saloum HCWW, Marsa Alam, Egypt 2014, 700 m³/d RO

Ain Sokhna, Egypt 2013, 91,200 m³/d RO

El Salam, Marsa Alam, Egypt 2013, 700 m³/d RO

Mont Marie, Sharm El Sheikh, Egypt 2013, 500 m³/d RO

Baghoush, Marsa Matrouh, Egypt 2012, 24,000 m³/d RO

Ras Malab (TDA), Ras Sidr, Egypt 2012, 1,500 m³/d RO

Taba (TDA), Taba, Egypt 2012, 1,500 m³/d RO

Ras Sidr 2 (TDA), Ras Sidr, Egypt 2012, 1,500 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Al Fatah SWRO Desalination Plant, Jubail Industrial City, Marafiq, Jubail, Saudi Arabia 2022, 12,000 m³/d RO

SWCC Shoaiba 5 Plant, Shoaiba, SWCC, Shoaiba, Saudi Arabia 2021, 600,000 m³/d RO

SWCC Shoaiba 5 Plant WWTP, Shoaiba, SWCC, Shoaiba, Saudi Arabia 2021, 30,000 m³/d RO

SWCC West Coast Satellite Desalination Plants, Haql, Duba, Al Wadj, Umlujj, Rabigh, Alith, Qunfudha & Farasan, SWCC: Haql, Duba, Al Wadj, Umlujj, Rabigh, Alith, Qunfudha & Farasan, Saudi Arabia 2020, 238,000 m³/d RO

Saudi Electricity Company Power Plant, Riyadh, PP14, Riyadh, Saudi Arabia 2018, 100 m³/d Other / Unknown

Royal Commission of Yanbu & Jubail WWTP Plant, Ras Al Khair, Royal Commission of Yanbu & Jubail, Saudi Arabia 2017, 25,000 m³/d Other / Unknown

Saudi Electricity Company STP, Qassim, Qassiim, Saudi Arabia 2015, 200 m³/d Other / Unknown

Saudi Electricity Company PP14 Power Plant, Riyadh, PP14, Riyadh, Saudi Arabia 2015, 100 m³/d Other / Unknown

Hail 2 Power Plant, Hail, Saudi Arabia 2015, 100 m³/d Other / Unknown

SEPCO III Power Plant, Riyadh, PP14, Riyadh, Saudi Arabia 2015, 100 m³/d Other / Unknown

SEPCO III Power Plant, Riyadh, PP13, Riyadh, Saudi Arabia 2015, 100 m³/d Other / Unknown

Ma'aden, Turaif, Saudi Arabia 2014, 1,300 m³/d Other / Unknown

Saudi Electricity Company STP, Hail, SEC/Hail, Saudi Arabia 2014, 100 m³/d Other / Unknown

Hassi Messaoud New Refinery, Hassi Messaoud, Algeria 2019, 21,500 m³/d Other / Unknown

Hamriyah CCGT Power Plant, Sharjah, United Arab Emirates 2019, 8,000 m³/d RO

Jazan IGCC, Saudi Arabia 2014, 50,000 m³/d RO

Jazan IGCC, Saudi Arabia 2014, 37,952 m³/d Other / Unknown

Agean Star Refinery WWTP, Aliaga, Turkey 2013, 26,500 m³/d Other / Unknown

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SELECTED REFERENCES

Complete Project Delivery

Johan Castberg, North Sea, Norway 2017, 27,312 m³/d Sulfate Removal

Oseberg South, North Sea, Norway 2017, 0 m³/d Electrochlorination

Gina Krog, North Sea, Norway 2015, 600 m³/d Membrane Deaeration

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SELECTED REFERENCES

Engineering Contractor

UPI Power & Infrastructures Units, Antwerp, Belgium 2019, 150,000 m³/d Other / Unknown

Socar Mercury Project, Aliaga, Turkey 2019, 30,000 m³/d Other / Unknown

Main Contractor

Project One - Ethane Cracker WWTP, Lillo, Antwerp, Belgium 2022, 15,000 m³/d Other / Unknown

Water production, (RO+Demi) for 4 Combined Cycles, San Luis Rio Colorado, Mexicali, Merida & Valladolid, Sonora, Baja California & Yucatán, Mexico 2022, 50,000 m³/d RO

Industrial effluent treatment plant upgrade, Huelva, Andalusia, Spain 2020, 2,400 m³/d MBR

Tecnologia Efectiva (AMBBIO)



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SELECTED REFERENCES

Design, Equipment, Construction, Installation and Start-Up

Penoles Wastewater Treatment Plant with Biological Process, Tertiary Filtration and Uv Light Disinfection for Reverse Osmosis Feeding, 4,492 m³/d RO

Design, Equipment, Construction, Installation, Start-Up and Operation and Maintenance

Accuride Wastewater Treatment Plant with Membrane Biological Reactor (MBR) and Reverse Osmosis for Water Reuse in Industrial Processes, 326 m³/d RO

EPC Contractor

Grupo Mexico Residual Water Treatment and Reuse Plant with Remote Pretreatment Station, MBR Plant and Reverse Osmosis, 6,912 m³/d RO

Ternium Processing Water Treatment Plant, 4,320 m³/d RO

General Contractor for Detailed Engineering, Civil and Electromechanical Works and Start-Up

Ford Advanced Treatment Plant of Industrial and Sanitary Wastewater with Membrane Biological Reactor Process, 1,296 m³/d MBR

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SELECTED REFERENCES

Plant Supplier

Nemmeli Phase 2, Nemmeli, Tamil Nadu, India 2019, 150,000 m³/d RO

Gujarat Industrial Development Corporation, Dahej, Gujarat, India 2019, 100,000 m³/d RO

Cirebon Phase II, Cirebon, Java, Indonesia 2018, 4,300 m³/d RO

Saurashtra Chemicals, Gujarat, Porbandar, India 2016, 12,000 m³/d RO

Megha Engineering, Tamilnadu, Tuticorn, India 2016, 7,000 m³/d RO

Zadco, Abu Dhabi, Zirku Island, United Arab Emirates 2013, 5,800 m³/d RO

Emirates Aluminium, Abu Dhabi, United Arab Emirates 2012, 7,000 m³/d RO

Khorfakkan Power Station, United Arab Emirates, 18,927 m³/d RO

New Qidfa Power station, Al Zawara, United Arab Emirates, 11,356 m³/d RO

Plant Supplier and O&M Contractor

Indira Gandhi Center for Atomic Research, Kalpakkam, Tamil Nadu, India 2012, 10,000 m³/d RO

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Tedagua has been developing water treatment plants and desalination solutions since beginning operations in 1983 in Las Palmas de Gran Canaria. After 20 years of strong growth, the company became a subsidiary of Cobra Group in 2001, which enabled Tedagua to become a global leader in the design, construction, operation and maintenance of water treatment plants. Tedagua now has more than 150 desalination plant references, as well as more than 100 references for drinking water plants, wastewater treatment plants and recycled water treatment plants.

With contracts in the five continents, Tedagua is now rightfully considered a world leader in the water treatment sector, with important references both in municipal and industrial areas and with second-to-none experiences in flagship projects.

The approach of Tedagua involves a broad range of technologies to provide a customized solution to client needs and implementing a combination of a highly skilled team, R&D effort and environmentally friendly awareness.

Tedagua always strives for the highest quality, owning the most relevant industry certifications and the very best of sustainable management systems, with the mission and values aligned to boost social progress in all the regions in which we participate.

SELECTED REFERENCES

EPC Contractor (Transmission)

Independent Water Transmission Line Rayis-Rabig, Rayis-Rabig, Saudi Arabia 2023, 500,000 m³/d RO

O&M Contractor

Sludge Thermal Treatment in Madrid Sur WWTP, Comunidad de Madrid, Spain 2023, 345,600 m³/d RO

Mutamiel Desalination Plant, Alicante, Spain 2023, 50,000 m³/d RO

Reuse WTP in Santa Cruz de Tenerife, Valle San Lorenzo and Adeje-Arona, Tenerife, Canary Islands, Spain 2022, 56,000 m³/d RO

Magtaa, Oran, Algeria 2021, 500,000 m³/d RO

El mejor ejemplo de éxito de la internacionalización de las empresas del agua

The best example of success in the internationalisation of water companies

+30

Estaciones de Tratamiento de Agua Potable (ETAP) para 10 mill. de habitantes

Drinking water treatment plants (DWTP) for 10 million inhabitants

+100

Plantas desaladoras por Ósmosis Inversa

Reverse Osmosis Desalination Plants

+80

Plantas de Tratamiento de Aguas Residuales (PTAR) para 8 mill. de habitantes

Wastewater Treatment Plants (WWTP) for 8 million inhabitants



Plant Supplier (Desal)

Containerised Desalination Plants, La Palma, Canary Islands, Spain 2022, 12,000 m³/d RO
Sfax, Tunisia 2021, 100,000 m³/d RO
East Bay, Manila, Rizal, Philippines 2021, 50,000 m³/d RO
Chira - Soria, Arguineguin, Gran Canaria, Spain 2021, 7,800 m³/d RO
Emergency Desal Plant, Puerto Naos, La Palma, Spain 2021, 7,600 m³/d RO
Roque Prieto, Guía-Gáldar, Canary Islands, Spain 2020, 8,500 m³/d RO
Gran Tarajal, Fuerteventura, Spain 2020, 2,000 m³/d RO
Puerto del Rosario, Fuerteventura, Spain 2020, 2,000 m³/d RO
Corralejo, Fuerteventura, Spain 2020, 2,000 m³/d RO
Chennai Nemmeli II, Chennai, Tamil Nadu, India 2019, 150,000 m³/d RO
The Spence Mine, Mejillones, Antofagasta, Chile 2018, 86,400 m³/d RO
Duqm SEZ, Duqm, Oman 2018, 36,000 m³/d RO
Al Hoceima Desalination Plant, Al Hoceima, Morocco 2018, 17,300 m³/d RO
Djibouti, Republic of Djibouti 2017, 22,500 m³/d RO
Tuas 3, Singapore 2016, 136,000 m³/d RO
Ras Al Khaimah, United Arab Emirates 2015, 100,000 m³/d RO
Provisur, Peru 2014, 35,000 m³/d RO
Provisur Desalination Plant, Santa Maria del Mar, Lima, Peru 2014, 34,905 m³/d RO
Abu Samra, Qatar 2012, 2,000 m³/d RO

Plant Supplier (Reuse)

WWTP in La Rioja, La Rioja, Spain 2023, 13,500 m³/d RO
WWTP Palma de Mallorca II, Palma de Mallorca, Balearic Islands, Spain 2022, 90,000 m³/d RO
WWTP Nabeul, Nabeul, Tunisia 2018, 16,538 m³/d Other / Unknown
WWTP Provisur, Santa Maria del Mar, Lima, Peru 2014, 17,625 m³/d Other / Unknown
Puerto Gaitan, Meta, Colombia 2012, 79,500 m³/d RO
Werribee Stage 1, Werribee, Victoria, Australia 2012, 6,000 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Reuse)

Borriol WWTP, Castellón, Borriol, Spain 2014, Tertiary treatment

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SELECTED REFERENCES

Designer, Manufacturer and Supplier

Kuwait 2015, 2,400 m³/d RO
Algeria 2015, 360 m³/d RO
Oman 2015, 230 m³/d RO
Oman 2015, 100 m³/d RO
Madagascar 2015, 50 m³/d RO
Bucharest, Romania 2014, 2,400 m³/d RO
Sinhas, Oman 2014, 500 m³/d RO
Tunis, Tunisia 2014, 350 m³/d RO
Jeddah, Saudi Arabia 2014, 200 m³/d RO
Kuwait 2014, 200 m³/d RO
Naval Base, Jeddah, Saudi Arabia 2014, 200 m³/d RO
Oman 2014, 37 m³/d RO
Antiparos, Cyprus 2013, 52 m³/d RO
Craiova, Romania 2013, 50 m³/d RO
Food Industry, Lagos, Nigeria 2012, 2,880 m³/d RO
Dubai, United Arab Emirates 2012, 600 m³/d RO
Abu Dhabi, United Arab Emirates 2012, 300 m³/d RO
Dammam, Saudi Arabia 2012, 300 m³/d RO
Dubai, United Arab Emirates 2012, 240 m³/d RO
Dammam, Saudi Arabia 2012, 205 m³/d RO

Designer, Manufacturer, Supplier, and Installer

Greece 2020, 4,700 m³/d RO
Greece, Kiklades, Kiklades, Greece 2020, 600 m³/d RO
Greece, Kiklades, Kiklades, Greece 2020, 340 m³/d RO
Greece, Kiklades, Kiklades, Greece 2020, 300 m³/d RO
Athens, Greece 2019, 600 m³/d RO
Crete Island, Crete, Greece 2019, 320 m³/d RO
Crete, Greece 2019, 220 m³/d RO

Kikaldes, Kiklades, Greece 2019, 220 m³/d RO
 Egypt 2018, 5,000 m³/d RO
 Mauritius 2018, 2,000 m³/d RO
 Egypt 2018, 1,000 m³/d RO
 Greece 2018, 820 m³/d RO
 Corfu, Greece 2018, 610 m³/d RO
 Greece 2018, 565 m³/d RO
 Crete, Greece 2018, 530 m³/d RO
 Tzia Island, Greece 2018, 500 m³/d RO
 Mauritius 2018, 500 m³/d RO
 Greece 2018, 470 m³/d RO
 Astypalaia, Greece 2018, 300 m³/d RO
 Iraklia Island, Greece 2018, 300 m³/d RO
 Israel 2018, 300 m³/d RO
 Ermioni, Greece 2018, 260 m³/d RO
 Lebanon 2018, 225 m³/d RO
 Argos, Greece 2018, 225 m³/d RO
 Atalanti, Greece 2018, 225 m³/d RO
 Thira, Greece 2018, 200 m³/d RO
 Oman 2018, 115 m³/d RO
 Korinthos, Greece 2018, 100 m³/d RO
 Kuwait 2017, 2,250 m³/d RO
 Romania 2017, 940 m³/d RO
 Maldives 2017, 600 m³/d RO
 Iran 2017, 400 m³/d RO
 Maldives 2017, 300 m³/d RO
 Kuwait 2017, 36 m³/d RO
 Mauritius 2016, 4,000 m³/d RO
 Kuwait 2016, 2,400 m³/d RO
 Kuwait 2016, 1,800 m³/d RO
 Thira Island, Greece 2016, 900 m³/d RO
 Qatar 2016, 500 m³/d RO
 Cyclades, Greece 2016, 260 m³/d RO
 Zante, Greece 2016, 260 m³/d RO
 Fthiotida, Greece 2016, 250 m³/d RO
 Region of Central Greece, Greece 2016, 150 m³/d RO
 Corfu, Greece 2016, 100 m³/d RO
 Oman 2016, 90 m³/d RO
 Oman 2016, 80 m³/d RO
 Oman 2016, 40 m³/d RO
 Municipality of Troizinia, Greece 2015, 1,000 m³/d RO
 Crete, Greece 2015, 400 m³/d RO
 Crete, Greece 2015, 350 m³/d RO
 Gavdos island, Greece 2015, 80 m³/d RO
 Ro Megistis island, Greece 2015, 20 m³/d RO
 Pserimos island, Greece 2015, 10 m³/d RO
 Hydra, Greece 2014, 1,600 m³/d RO
 Hotel 1, Kos, Greece 2014, 700 m³/d RO
 Athens, Greece 2014, 624 m³/d RO
 Antiparos, Greece 2014, 600 m³/d RO
 Hotel 2, Kos, Greece 2014, 500 m³/d RO
 Ierapetra, Greece 2014, 450 m³/d RO
 Private Property, Peloponese, Greece 2014, 350 m³/d RO
 Akrotiri, Santorini, Greece 2014, 250 m³/d RO
 Rhodes, Greece 2014, 180 m³/d RO
 Chalkis, Greece 2014, 100 m³/d RO
 Koufonissi, Greece 2013, 600 m³/d RO
 Chalkis, Greece 2013, 600 m³/d RO

Amorgos, Greece 2013, 450 m³/d RO
 Schoinousa, Greece 2013, 400 m³/d RO
 Water Kiosk, Aegean Islands, Greece 2013, 300 m³/d RO
 Athens, Greece 2013, 300 m³/d RO
 Food Industry, Fthiotida, Greece 2013, 300 m³/d RO
 Crete, Greece 2013, 188 m³/d RO
 Aegean Islands, Greece 2013, 138 m³/d RO
 Massirah Island, Oman 2013, 100 m³/d RO
 Cruise Ship, Greece 2013, 64 m³/d RO
 Kalymnos island, Greece 2013, 12 m³/d RO
 Kalymnos island, Greece 2013, 6 m³/d RO
 Crete, Greece 2012, 450 m³/d RO
 Porto Heli, Greece 2012, 445 m³/d RO
 Crete, Greece 2012, 170 m³/d RO
 Thirasia Island, Greece 2012, 140 m³/d RO
 Agathonisi Island, Greece 2012, 80 m³/d RO
 Athens, Greece 2012, 52 m³/d RO

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Developer

Lions Gate Secondary WWTP, Vancouver, Canada 2017, 102,000 m³/d Other / Unknown

Thermal Purification Technologies



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SELECTED REFERENCES

Technology Provider

CCR Demonstration Plant, Midland, Texas, United States 2019, 240 m³/d Direct Spray Distillation

ZLD Plant, Apollo Tyres, Gyöngyöshalász, Hungary 2018, 72 m³/d Direct Spray Distillation

Mobile unit, Vaduz, Liechtenstein 2015, 100 m³/d Direct Spray Distillation

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SELECTED REFERENCES

Equipment Supplier: Desalination System

Aurobindo Group, Andhra Pradesh, India 2022, 31,250 m³/d RO

Indian Rayon, Gujarat, India 2022, 12,000 m³/d RO

Gujarat Heavy Chemicals Limited, Gujarat, India 2022, 10,000 m³/d RO

Nayara Energy, Gujarat, India 2021, 6,500 m³/d RO

Pearl Distillery, Andhra Pradesh, India 2020, 2,000 m³/d RO

PT Dabi, Indonesia 2019, 12,000 m³/d RO

Ultratech Cement, Gujarat, India 2019, 1,200 m³/d RO

Rohit Surfactant, Porbandar, Gujarat, India 2017, 14,000 m³/d RO

Rohit Surfactant, Porbandar, Gujarat, India 2017, 8,000 m³/d NF

Reliance Industries Limited, Jamnagar, Gujarat, India 2016, 125,000 m³/d Other / Unknown

Sanghi Cement, Gujarat, India 2013, 36,000 m³/d Other / Unknown

ABG Cement Limited, Gujarat, India 2012, 4,100 m³/d RO

EPC Contractor

Siddhi Vinayak Cement Pvt Ltd, Ahmedabad, Pali, Rajasthan, India, 2,544 m³/d RO

Zero Liquid Discharge Plant at SABMiller, Aurangabad, Aurangabad, India, 1,800 m³/d RO

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EPC Contractor

Beenyup Groundwater Replenishment Programme, Australia 2014, 38,356 m³/d RO

East Rockingham WWTP, Australia 2014, 20,000 m³/d Other / Unknown

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Equipment Supplier: Desalination System

QAM-ARLM, Oman 2022, 140 m³/d FO

Proteas, Gov Beach, Cyprus 2020, 50 m³/d FO

NELHA, Kailua-Kona, Hawaii, United States 2018, 500 m³/d FO

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EPC and O&M Contractor

Agnes Water Desalination, Agnes Waters/1770, Q. 4670, Australia 2012, 1,500 m³/d RO

Campaspe Water Reclamation Scheme - Echuca Reclamation Plant, Echuca, Victoria, Australia, 8,000 m³/d Tertiary treatment

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Beenyup Groundwater Replenishment Programme, Australia 2014, 38,356 m³/d RO

East Rockingham WWTP, Australia 2014, 20,000 m³/d Other / Unknown

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Water Treatment System Supplier

UF+RO water reclamation plant, Singapore 2018, 5,000 m³/d UF/RO

Triveni Engineering and Industries Ltd.



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Plant Supplier (Desal)

3x500 MW Vallur Thermal Power Project, Vallur, Chennai, India 2016, 6,600 m³/d RO

3x500 MW Indira Gandhi Super Thermal Power Project, Jhajjar, Haryana, India 2012, 10,800 m³/d RO

6x135 MW TPP, Angul, Odisha, India, 19,200 m³/d RO

2x125 MW Giral Lignite Thermal Power Project, Barmer, Rajasthan, India, 5,760 m³/d RO

108 MW CCPP, Rithala, Delhi, India, 5,040 m³/d RO

1x370 MW CCPP,, Utran, Surat, Gujarat, India, 4,320 m³/d RO

2x507.5 MW UPCL,, Padubidri, Karnataka, India, 1,620 m³/d RO

Plant Supplier and Operator

BWPCT, Balotra, Rajasthan, India 2018, 18,000 m³/d RO

Jalipa Lignite Mine, Barmer, Rajasthan, India 2018, 15,000 m³/d RO

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SELECTED REFERENCES

Desalination Equipment Supplier

TSB, Isla, Mexico 2018, 6 m³/d RO

TBB, Solomon Islands 2017, 15 m³/d RO

TSB, Mystery Island, Vanuatu 2017, 6 m³/d RO

TSB, Tarawa, Kiribati 2017, 6 m³/d RO

Survivor RO, Fouzhou, China 2017, 1 m³/d RO

TSB, Spratly Island, Vietnam 2016, 6 m³/d RO

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EPC and O&M Contractor

British Virgin Islands SWRO Desalination Plant, British Virgin Islands 2023, 120,000 gpd RO

Antigua and Barbuda Reuse Plant, Antigua and Barbuda 2022, 80,000 gpd MBR

EPC Contractor

Cabo San Lucas SWRO Desalination Plant, Cabo San Lucas, Mexico 2023, 2,000 m³/d RO

Cabo San Lucas SWRO Desalination Plant, Cabo San Lucas, Mexico 2022, 1.4 MGD RO

Bahamas Reuse Plant, Bahamas 2021, 350,000 gpd MBR

Frenchman's Reef, United States 2020, 200,000 gpd

Design and Build

Bahamas 2021, 500,000 gpd RO

U.S. Virgin Islands 2021, 200,000 gpd MBR

USVI, U.S. Virgin Islands 2021, 200,000 gpd RO

U.S. Virgin Islands 2021, 135,000 gpd MBR

Mexico 2021, 114,000 gpd MBR

Costa Rica 2021, 100,000 gpd RO

Antigua and Barbuda 2021, 80,000 gpd MBR

U.S. Virgin Islands 2021, 757 m³/d RO

Flamingo Marina, Costa Rica 2019, 100,000 gpd RO

Coco Cay, Bahamas 2018, 350,000.0 gpd RO

Coco Cay, Bahamas 2018, 110,000.0 gpd MBR

Temenos, Anguilla 2014, 240,000.0 gpd MBR

Ritz Carlton, St. Thomas, U.S. Virgin Islands 2014, 162,000.0 gpd RO

Amber Cove, Dominican Republic 2014, 75,000.0 gpd RO

Campeche, Mexico 2013, 300,000.0 gpd RO

Moskito Island, British Virgin Islands 2013, 25,000.0 gpd RO

Sailrock, South Caicos, Turks and Caicos Islands 2013, 10,000.0 gpd RO

Schooner Bay, Bahamas 2012, 25,000.0 gpd RO

Long Cay, Bahamas, 10,000.0 gpd RO

Design, Build and Operate

Westin St. John, U.S. Virgin Islands 2018, 200,000.0 gpd MBR

Chileno Bay, Los Cabos, Mexico 2017, 500,000.0 gpd RO

Baker's Bay, Bahamas 2016, 25,000.0 gpd MBR

Baker's Bay, Bahamas 2016, 1.56 MGD RO

Vista Serena/Maravilla, Los Cabos, Mexico 2016, 1.0 MGD RO

Westin St. John, U.S. Virgin Islands 2015, 250,000.0 gpd RO

Westin St. John, U.S. Virgin Islands 2015, 200,000.0 gpd RO

Westin St. John, U.S. Virgin Islands 2015, 120,000.0 gpd MBR

Park Hyatt, United Kingdom 2015, 100,000.0 gpd RO

Park Hyatt, St. Kitts, United Kingdom 2015, 60,000.0 gpd MBR
Frenchman's Cove, St. Thomas, U.S. Virgin Islands 2014,
100,000.0 gpd RO
Amanyara Resort, Turks and Caicos Islands 2013, 60,000.0 gpd RO
Amanyara Resort, Turks and Caicos Islands, United Kingdom,
250,000.0 gpd RO

O&M Contractor

Antigua and Barbuda SWRO Desalination Plant, Antigua and
Barbuda 2023, 1 mgd RO
Anguilla 2021, 1,200,000 gpd RO
Mexico 2020, 1,500,000 gpd RO

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EPC Contractor

Menzel Bouzefa WWTP - Rehabilitation/Expansion, Nabeul,
Tunisia 2013

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EPC Contractor

El Bobar WWTP, Almería - Expansion, Almería, Spain 2012, 47,500
m³/d

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Main Contractor

Tuas Water Reclamation Plant Contract 3D2 – Domestic Liquids
Module 2 – MEICA, Singapore, Tuas 2022, 85.9 MGD MBR

Tuas Water Reclamation Plant Contract 3D1 – Domestic Liquids
Module 1 – MEICA and NEWater, Singapore, Tuas 2021, 85.9 MGD
MBR

Tuas Water Reclamation Plant Contract 3D1 – Domestic Liquids
Module 1 – MEICA and NEWater, Singapore, Tuas 2021, 26.1 MGD
RO

EPC and O&M Contractor

Second Changi NEWater Plant, Singapore 2014, 50.0 MIDG RO

EPC Contractor

Jurong Water Reclamation Plant, Singapore 2015, 59,000 m³/d
MBR

Chesnut Avenue Water Work, Singapore 2015, 60.0 MIDG UF

Changji Water Reclamation Plant, Singapore 2012, 60 MIDG MBR

UGL engineering



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EPC Contractor

Shoalhaven Reclaimed Water Management Scheme, New South
Wales, Australia 2016

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SELECTED REFERENCES

Plant Supplier (Desal)

Cabo Verde 2021, 10,000 m³/d RO

North Africa, Egypt 2018, 12,000 m³/d RO

El Arish, El Arish, Sinai, Egypt 2017, 5,000 m³/d RO

Iran, Persian Gulf 2014, 30,000 m³/d RO

Atlantic Ocean 2014, 10,000 m³/d RO
 Persian Gulf, Iran 2012, 30,000 m³/d RO
 Portugal 2012, 5,000 m³/d RO
 Egypt 2011, 12,000 m³/d RO
 Egypt 2011, 5,000 m³/d RO

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SELECTED REFERENCES

Build, Own, Operate, Maintain, Design and EPC; IWP Developer, EPC and O&M Contractor

Khorkhwair, Ras Al Khaimah, United Arab Emirates 2012, 45,000 m³/d RO

IWP Developer EPC Contractor O&M Contractor

Utico IWP1, Al Hamra, Ras Al Khaimah, UAE, Dubai, United Arab Emirates 2018, 10,000 m³/d RO

Utico IWP-03, Al Hamra, Ras Al Khaimah, UAE, Dubai, United Arab Emirates 2017, 48,000 m³/d RO

Utico IWP-01, Al Hamra, Ras Al Khaimah, UAE, Dubai, United Arab Emirates 2017, 16,000 m³/d RO

Utico IWP-Augmentation RAKIA, Al Hamra, Ras Al Khaimah, UAE, Dubai, United Arab Emirates 2017, 1,000 m³/d RO

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sustainable solutions. for a better life.

VA TECH WABAG is a pure play water technology company with a global presence across 25 countries in 4 continents. As a technology integrator with proven expertise, we specialize in offering comprehensive solutions for water treatment, wastewater treatment, desalination, and recycle & reuse, and O&M services catering to utilities and industries worldwide.

WABAG's services range is based on a holistic life-cycle model from process conceptualization to after-sales services and long-term plant operation, and comprises business models such as Engineering-Procurement-Construction (EPC), Design-Build-Operate (DBO), Build-Own-Operate (BOO) and expansion.

WABAG has consistently achieved success in manufacturing high-quality water from alternative sources through our innovative and reliable solutions in Desalination and Water Reuse. We firmly believe in the concept of "Manufactured Water," a contemporary solution that addresses water scarcity, safeguards the environment, and drives economic growth.

Desalination Solutions:

WABAG offers a range of technologies: reverse osmosis (RO), thermal desalination (MED, MVC, TVC, MSF), ion exchange (IX) and electro-dialysis (ED) coupled with coherent pre- and post-treatment. With a customer-centric focus, WABAG provides tailor-made solutions which are innovative, eco-friendly and cost-effective with minimal footprint.

Recycle and Reuse Solutions:

With a conviction that "water is too precious to be used just once", WABAG offers sustainable water reclamation systems for municipal and industrial reuse. Depending on individual requirements, we combine appropriate technologies in the form of multi-barrier-systems using advanced biological and physical processes (amongst others MBR, tertiary UF and RO, oxidation, disinfection) to create tailor-made solutions, right up to direct potable reuse.

SELECTED REFERENCES

DBO (Desal)

Perur Desalination Plant, Chennai, India 2023, 400,000 m³/d RO

Zarat DWTP, Tunisia 2023, 50,000 m³/d RO
Mamelles SWRO, Dakar City, Senegal 2022, 50,000 m³/d RO
Nemmeli Desalination Plant, DWTP, India 2013, 110,000 m³/d RO
Sohar Industrial Port Area, Muscat, Oman 2013, 20,000 m³/d RO

BOOT (Reuse)

Ujams Industrial Park ETP & Reclamation Plant, Windhoek, Namibia 2014, 5,174 m³/d

DBO (Reuse)

Jajmou Tannery Effluent Treatment Association (JTETA) CETP, India 2023, 20,000 m³/d, 5 years O&M
Centralized Zero Liquid Discharge (ZLD) NMDC, Nagarnar, Chhattisgarh, India 2023, 4,320 m³/d, 5 years O&M
Zaghloul Bahary WWTP & Water Reclamation, Zaghloul, Kafr-El-Sheik district, Egypt 2022, 15,000 m³/d, 12 months O&M
Port Said WWTP and Reuse plant, Egypt 2019, 40,000 m³/d, 12 months O&M
Madinaty WWTP and Reclamation Phase 1, Cairo, Egypt 2018, 40,000 m³/d, O&M since 2018
Koyambedu Tertiary Treatment and Reclamation Plant, Chennai, India 2019, 45,000 m³/d RO, 15 years O&M
ETP and Recycling Plant for Dahej Refinery, India 2015, 43,200 m³/d, 36 months O&M
Madinat Salman WWTP and Reclamation Plant, Bahrain 2018, 40,000 m³/d, 5 years O&M

Hybrid Annuity Projects: HAM (Reuse)

Ghaziabad Tertiary Treatment & Reclamation Plant, Ghaziabad, India 2022, 40,000 m³/d RO, 15 years O&M

Plant Supplier (Desal)

Tobruk DWTP, Libya 2023, 13,333 m³/d MED
Dangote Petrochemical Refinery, RWTP Package, Lagos, Nigeria 2022, 110,040 m³/d RO
RWTP Guru Gobindh Singh Refinery, India 2021, 60,000 m³/d RO
Ipsach-Biel DWTP, Switzerland Award 2021, 40,000 m³/d RO
RWTP Mangalore Refinery and Petrochemicals Ltd. (MRPL), India 2021, 30,000 m³/d RO
Dangote Fertilizer, Nigeria 2020, 60,000 m³/d RO
Desalination Plant (RWTP) for Reliance Industries, Dahej, India 2017, 50,000 m³/d RO
Jamnagar, Gujarat, India 2016, 24,000 m³/d RO
Al Ghubrah IWP DWTP, Muscat, Oman 2015, 190,932 m³/d RO
QSTec Polysilicon Project, Qatar 2015, 12,480 m³/d RO
NCC Power Project Nellore, India 2014, 13,248 m³/d RO
APPDCL, Krishnapatnam, Andhra Pradesh, India 2012, 6,000 m³/d RO
SWRO Jamnagar Refinery, Gujarat, India, 53,000 m³/d RO
Jazan Economic City SWRO, Jazan Economic City, Saudi Arabia, 60,000 m³/d RO
Essar Oil, India, 2011, 12,960 m³/d, RO
Muaratawar Power Plant, Indonesia, 2011, 500 m³/d, RO
Al Wasia DWTP, Saudi Arabia, 2010, 200,000 m³/d, RO
Mundra Port SEZ, Gujarat, India, 2010, 21,000 m³/d, RO
Adani, Mundra, India, 2010, 20,000 m³/d, RO

Plant Supplier (Reuse)

Ciulnita ETP and Recycling Plant (Saria), Romania 2023, 370 m³/d
Jubail and its Industrial City, Expansion of SWTP-9 Stage-6, WWTP and Reuse Plant, Saudi Arabia 2022, 120,000 m³/d
Effluent Recycle Plant for DTA Refinery, India, RO
LFZ-RO-DM, CPU and ETP Package for the Dangote Petrochemical Refinery, Lagos, Nigeria 2022, 26,400 m³/d
Jazan Economic City Port and Infrastructure Project, ETP & Reuse plant, Saudi Arabia 2022, 10,000 m³/d
Madinaty WWTP and Reclamation Plant Phase II, Cairo, Egypt 2022, 40,000 m³/d
Sidi Bou Ali / El Jem & Ouerdanin WWTPs & Reuse, Tunisia 2022, 1,595 m³/d
Thibar WWTP, Thibar, Tunisia Award 2022, 1,150 m³/d
ETP and Recycling Plant for Guru Gobindh Singh Refinery for HPCL Mittal Energy Limited, Bathinda, Punjab, India 2021, 13,680 m³/d
Beni Messous WWTP Common Tertiary Treatment and Reuse Plant, Algeria 2017, 100,800 m³/d
Effluent Recycle Plant for Refinery Effluent, Paradip, Odisha, India 2016, 27,600 m³/d RO
Al Kharj Industrial City, ETP&Recycling Plant, Saudi Arabia 2014, 10,000 m³/d
Madinah WWTP and Reuse Plant, Saudi Arabia, 200,000 m³/d

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Design and Build: Membrane Desalination (SIDEM / Veolia Water Technologies)

Umm Al Quwain, United Arab Emirates 2019, 681,818 m³/d RO
Rabigh 3, Saudi Arabia 2019, 600,000 m³/d RO
Al Dur 2, Bahrain 2019, 227,000 m³/d RO
Samsung Engineering Co, LTD (SECL), United Arab Emirates 2018, 62,500 m³/d MED
Samsung Engineering Co, LTD (SECL), United Arab Emirates 2018, 16,800 m³/d MED
BP Mad Dog Phase 2 LoSal System, Gulf of Mexico, United States 2017, 22,300 m³/d RO
Humaimah Water Treatment Plant, Hail, Saudi Arabia 2017, 10,500 m³/d RO
Rizal Drinking Water Treatment Plant, Manila, Philippines 2016, 50,000 m³/d RO
Woodside Greater Enfield Sulphate Removal System, Australia 2016, 12,720 m³/d NF
Sharqiyah Desalination - Expansion, Sur, Oman 2015, 48,000 m³/d RO
BWSIP P3 & P4, Basrah, Iraq 2014, 199,000 m³/d RO
Egina, Nigeria 2014, 85,625 m³/d UF
WTP for Wajeed Wells Project, Wajeed, Saudi Arabia 2014, 62,712 m³/d RO
Moho Nord, Ghana 2014, 20,668 m³/d UF
East Hub, Angola 2014, 20,032 m³/d UF

Masdar - Renewable Energy Desalination Program, Abu Dhabi, United Arab Emirates 2014, 300 m³/d RO
 Sadara (Marafiq) SWRO, Al Jubail, Saudi Arabia 2013, 178,800 m³/d RO
 Quwaieiah WTP Expansion Project, Quwaieiah, Saudi Arabia 2013, 25,000 m³/d RO
 Maraba (Asir) WTP Expansion, Asir, Saudi Arabia 2012, 50,000 m³/d RO
 Aruba desalination plant, Aruba 2012, 24,000 m³/d RO
 Az Zour South SWRO, Az Zour, Kuwait 2011, 136,000 m³/d RO
 Campo de Tarragona, Tarragona, Spain 2010, 20,000 m³/d RO

Plant Supplier (Reuse)

Jourdain - Vendée Eau, France 2021, 3,600 m³/d Other / Unknown
 Baladna, Qatar 2020, 6,000 m³/d Other / Unknown
 Hefei Binhu Beilaowei (Ph. I), China 2014, 30,000 m³/d Other / Unknown

Plant Supplier and Operator

Chatelailon, France 2012, 72 m³/d Other / Unknown

Design and Build: Thermal Desalination (ENTROPIE / SIDEM / Veolia Water Technologies)

Ras Lanouf, Libya 2019, 16,000 m³/d MED
 WHR + CFP (ADNOC), Abu Dhabi, United Arab Emirates 2018, 48,800 m³/d MED
 Ras Tanura, Saudi Arabia 2018, 9,402 m³/d MED
 Burrup Fertiliser Plant II, Australia 2017, 1,500 m³/d MED
 Shougang - Unit 5, Caofeidian, China 2016, 35,000 m³/d MED
 Liwa, Oman 2016, 8,800 m³/d MED
 Lontar, Indonesia 2016, 3,500 m³/d MED
 Red Dragon / PIEM, Chile 2016, 3,000 m³/d MED
 Zouk, Lebanon 2016, 1,440 m³/d MED
 Az Zour North 1 IWPP, Kuwait 2013, 490,970 m³/d MED
 MAEK Kazatomprom, Aktau, Kazakhstan 2013, 24,000 m³/d MED
 Tripoli West, Libya 2013, 7,200 m³/d MED
 Moron Planta Centro, Venezuela 2013, 5,362 m³/d MED
 Zwitina, Libya 2013, 5,000 m³/d MED
 Cochrane Thermoelectric Power Plant, Chile 2013, 5,000 m³/d MED
 Petron, Philippines 2012, 16,167 m³/d MED
 Suez Thermal Power Plant, Egypt 2012, 6,000 m³/d MED
 Yanbu 2, Saudi Arabia 2011, 63,348 m³/d MED

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Plant Supplier (Reuse)

La Granja de San Ildefonso WWTP - Upgrade, San Ildefonso, Spain 2015, 0 Tertiary treatment

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Rental RO Units

Reverse Osmosis Skid 1 for Offshore Oil and Gas Company, Santos Basin, Brazil 2023, 90 m³/d RO
 Reverse Osmosis Skid 2 for Offshore Oil and Gas Company, Santos Basin, Brazil 2023, 90 m³/d RO
 Reverse Osmosis Skid 3 for Offshore Oil and Gas Company, Santos Basin, Brazil 2023, 90 m³/d RO
 Reverse Osmosis Skid 4 for Offshore Oil and Gas Company, Santos Basin, Brazil 2023, 90 m³/d RO
 Reverse Osmosis Skid 5 for Offshore Oil and Gas Company, Espirito Santo Basin, Brazil 2023, 60 m³/d RO
 Reverse Osmosis Skid 6 for Offshore Oil and Gas Company, Espirito Santo Basin, Brazil 2023, 30 m³/d RO
 Poseidon - Aquarius Brazil Floatel, Macaé, Rio de Janeiro, Brazil 2019, 60 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Peru BWRO, Olmos, Peru 2023, 5,184 m³/d RO
 Santiago BWRO 2, Santiago, Chile 2023, 480 m³/d RO
 Lontue BWRO, Lontue, Chile 2023, 312 m³/d RO
 Santiago BWRO 1, Santiago, Chile 2023, 240 m³/d RO
 Concón BWNF, Concón, Chile 2022, 4,320 m³/d NF
 Concón BWRO, Concón, Chile 2022, 864 m³/d RO
 Chillán BWRO, Chillán, Chile 2022, 480 m³/d RO

Antofagasta SWRO, Antofagasta, Chile 2022, 240 m³/d RO
 Copiapó BWRO, Copiapó, Chile 2022, 173 m³/d RO
 Lautaro BWRO, Lautaro, Chile 2022, 144 m³/d RO
 Valparaíso, Chile 2022, 144 m³/d RO
 Santiago BWRO 3, Santiago, Chile 2022, 19 m³/d RO
 Concón, Chile 2021, 1,944 m³/d RO
 Santiago, Chile 2021, 1,836 m³/d RO
 Pargua, Chile 2021, 1,728 m³/d RO
 Puerto Natales, Chile 2021, 1,728 m³/d RO
 Iloca, Chile 2021, 1,296 m³/d RO
 Concón, Chile 2021, 720 m³/d RO
 Calama, Chile 2021, 600 m³/d RO
 Concepción, Chile 2021, 600 m³/d RO
 Puerto Montt, Chile 2021, 600 m³/d RO
 Santiago, Chile 2021, 600 m³/d RO
 Santiago, Chile 2021, 480 m³/d RO
 Peru 2021, 432 m³/d RO
 Peru 2021, 432 m³/d RO
 Santiago, Chile 2021, 432 m³/d RO
 Teno, Chile 2021, 360 m³/d RO
 Valdivia, Chile 2021, 192 m³/d ED
 Santiago, Chile 2021, 120 m³/d RO
 Llay-Llay, Chile 2021, 36 m³/d RO
 Combarbala, Chile 2020, 1,200 m³/d RO
 Santiago, Chile 2020, 600 m³/d MBR
 Valparaíso, Chile 2020, 600 m³/d RO
 Santiago, Chile 2020, 600 m³/d MBR
 Santiago, Chile 2020, 240 m³/d RO
 Brasil, Brazil 2020, 240 m³/d RO
 Santiago, Chile 2020, 86 m³/d RO
 Talquilla, Chile 2020, 11 m³/d RO
 Calama, Chile 2020, 6 m³/d RO
 San Antonio, Chile 2019, 6,000 m³/d RO
 Puerto Montt, Chile 2019, 2,400 m³/d RO
 Mallarauco, Chile 2019, 1,900 m³/d RO
 LlayLlay, Chile 2019, 480 m³/d NF
 Santiago, Chile 2019, 132 m³/d RO
 Santiago, Chile 2019, 120 m³/d RO
 Melipilla, Chile 2019, 96 m³/d RO
 Teno, Chile 2019, 60 m³/d RO
 Santiago, Chile 2019, 48 m³/d RO
 San Pedro, Chile 2019, 40 m³/d RO
 Arica, Chile 2019, 36 m³/d RO
 Talcahuano, Chile 2019, 36 m³/d RO
 Penco, Chile 2019, 36 m³/d RO
 Llay Llay, Chile 2019, 36 m³/d RO
 Santiago, Chile 2019, 36 m³/d RO
 Arica, Chile 2019, 12 m³/d RO
 Coliumo, Chile 2019, 10 m³/d RO
 Santiago, Chile 2018, 1,680 m³/d RO
 Arica, Chile 2018, 1,680 m³/d RO
 Punta Arenas, Chile 2018, 1,296 m³/d RO
 Santiago, Chile 2018, 960 m³/d RO
 Coquimbo, Chile 2018, 864 m³/d RO
 Antofagasta, Chile 2018, 696 m³/d RO
 Osorno, Chile 2018, 576 m³/d RO
 Talca, Chile 2018, 60 m³/d RO

Coquimbo, Chile 2018, 11 m³/d RO
 Concepción, Chile 2018, 11 m³/d RO
 Puerto Montt, Chile 2018, 6 m³/d RO
 Osorno, Chile 2018, 6 m³/d RO
 Coquimbo, Chile 2017, 3,360 m³/d RO
 Valparaíso, Chile 2017, 1,560 m³/d RO
 Coquimbo, Chile 2017, 11 m³/d RO
 Copiapo, Chile 2017, 11 m³/d RO

Design, Equipment Supply and Start-Up

Valparaíso, Chile 2014, 0 m³/d RO

Design, Equipment Supply, Installation and Start-Up

Valparaíso, Chile 2017, 10 m³/d RO
 Coquimbo, Chile 2017, 8 m³/d RO
 Antofagasta, Chile 2016, 132 m³/d RO
 Iquique, Chile 2015, 120 m³/d RO
 Santiago, Chile 2015, 33 m³/d RO
 Valparaíso, Chile 2015, 28 m³/d RO
 Antofagasta, Chile 2014, 408 m³/d RO

Design, Manufacture and Start-Up

Antofagasta, Chile 2014, 144 m³/d RO
 Perú, Chile 2014, 120 m³/d RO
 Endesa Bocamina II, Coronel, Chile 2012, 1,200 m³/d RO

Design, Manufacture, Installation and Start-Up

Santiago, Chile 2017, 864 m³/d RO
 Santiago, Chile 2017, 480 m³/d RO
 Arica, Chile 2017, 480 m³/d RO
 Santiago, Chile 2017, 384 m³/d UF
 Santiago, Chile 2017, 240 m³/d RO
 Valparaíso, Chile 2016, 12,960 m³/d RO
 Valparaíso, Chile 2016, 5,352 m³/d RO
 Santiago, Chile 2016, 1,440 m³/d RO
 Coquimbo, Chile 2016, 840 m³/d RO
 Valparaíso, Chile 2016, 720 m³/d RO
 Santiago, Chile 2016, 360 m³/d RO
 Valparaíso, Chile 2016, 360 m³/d RO
 Santiago, Chile 2016, 288 m³/d RO
 Antofagasta, Chile 2016, 288 m³/d RO
 Puerto Montt, Chile 2016, 160 m³/d RO
 Santiago, Chile 2016, 48 m³/d UF
 Mobile, Chile 2016, 24 m³/d RO
 Iquique, Chile 2016, 12 m³/d RO
 Atacama, Chile 2015, 600 m³/d RO
 Valparaíso, Chile 2015, 600 m³/d RO
 Bio-Bio, Chile 2015, 480 m³/d RO
 Bio-Bio, Chile 2015, 120 m³/d RO
 Coquimbo, Chile 2014, 552 m³/d RO
 Santiago, Chile 2014, 480 m³/d RO
 Santiago, Chile 2014, 216 m³/d RO
 Santiago, Chile 2014, 48 m³/d RO

Cerro Negro Norte, Copiapó, Chile 2013, 168 m³/d RO
 Clorox, Santiago, Chile 2013, 57 m³/d RO
 Syngenta Arica, Arica, Chile 2013, 5 m³/d RO
 Marina Vichuquén, Sexta Región, Chile 2013, 4 m³/d RO
 Coca-Cola Andina, Santiago, Chile 2012, 480 m³/d RO
 Coca-Cola Embonor, Valparaiso, Chile 2012, 240 m³/d RO
 Capel, Ovale, Chile 2012, 72 m³/d RO
 SUN, Santiago, Chile 2012, 38 m³/d RO
 Coca-Cola Embonor, Valparaiso, Chile 2012, 4 m³/d Other / Unknown

Equipment Supplier

Sexta Región, Chile 2013, 108 m³/d RO

Installation

Isla Damas, La Serena, Chile 2012, 2 m³/d RO

Installation and Start-Up

Santa Beatriz, Antofagasta, Chile 2013, 120 m³/d Other / Unknown

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SELECTED REFERENCES

Developer

Bhandewadi - Nagpur (Maharashtra) Waste Treatment Plant with reuse (Phase I, II & III), Nagpur, Maharashtra, India, 300,000 m³/d Tertiary treatment

EPC and O&M Contractor

Bhandewadi WWTP, Nagpur, Maharashtra, India 2014, 200,000 m³/d

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EPC and O&M Contractor

Gujarat International Finance Tec City (GIFT City) STP, Gandhinagar, Gujarat, India 2013, 2,200 m³/d Tertiary treatment

W.J. Towell & Co. (L.L.C.)



www.wjtowell.com

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Developer

Barka, Oman 2015, 281,000 m³/d RO

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SELECTED REFERENCES

EPC Contractor

Sahiwal, Pakistan 2013, 2,400 m³/d RO
 Faisalabad, Pakistan 2013, 1,920 m³/d RO
 Faisalabad, Pakistan 2013, 1,440 m³/d RO

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SELECTED REFERENCES

AST

Greater Maputo, Mozambique, Mozambique 2019, 30,000 m³/d
Other / Unknown
GU3, Tianjin, China 2016, 6,000 m³/d RO
CN Strauss Group, Zefat, Israel 2016, 200 m³/d RO
Inner Mongolia Bulinagu CC, Jungar, Inner Mongolia, China 2015, 15,600 m³/d
Aviv Industries, Ramat Hovav, Israel 2015, 240 m³/d RO
EIL, Tianjin, China 2014, 750 m³/d RO
IMD Industrial Park, Dalu, Inner Mongolia, China 2014, 560 m³/d RO
Amandi, Bauchi, Nigeria 2012, 2,300 m³/d

AST and ROTEC

Hondoq Gozo SWRO, Gozo Island, Gozo, Malta 2018, 9,000 m³/d RO

ROTEC

Singapore 2025, 144,000 m³/d RO
Daru MPWT, Daru Island, Papua New Guinea 2022, 1,920 m³/d RO
Santa Monica MPWT, Santa Monica, United States 2021, 41,440 m³/d RO
China, Jilin 2021, 6,960 m³/d RO
U.S.A., California, United States 2021, 3,600 m³/d RO
China, Henan 2021, 2,640 m³/d RO
Malaysia 2021, 288 m³/d RO
U.S.A., Georgia, United States 2021, 168 m³/d RO
U.S.A., Texas, United States 2020, 2,352 m³/d RO
Shafdan, Israel 2020, 1,440 m³/d RO
Spain, Catalonia 2020, 1,200 m³/d RO
U.S.A., California, United States 2020, 840 m³/d RO
Malaysia, Penang 2020, 336 m³/d RO
U.S.A., Florida, United States 2020, 169 m³/d RO
Netherlands, Zwolle 2020, 169 m³/d RO
U.S.A., California, United States 2020, 168 m³/d RO
U.S.A., Santa Monica, United States 2020, 168 m³/d RO
U.S.A., Arizona, United States 2019, 4,320 m³/d RO
Spain, Tenerife 2019, 1,656 m³/d RO
China, Henan 2019, 156 m³/d RO
Chile, Santiago 2018, 720 m³/d RO
Spain 2018, 384 m³/d RO
Shafdan, Israel 2018, 360 m³/d RO
Spain, Huelva 2018, 168 m³/d RO
Israel, Eilat 2017, 193 m³/d RO
Singapore 2016, 10,680 m³/d RO

China 2016, 4,560 m³/d RO
Huiquan, China 2016, 1,584 m³/d RO
Chile, Santiago 2015, 984 m³/d RO
China, Suzhou 2014, 1,440 m³/d RO
Israel, Shoham 2014, 600 m³/d RO
Shafdan, Israel 2014, 192 m³/d RO
Friesland, Netherlands 2013, 1,440 m³/d RO
Israel, Rishon Lezion 2012, 192 m³/d RO

TOXSORB

Green Village (Hakfar Hayarok), Ramat Hasharon, Israel 2018, 270 m³/d
Metal Surfaces Inc. (MSI), Los Angeles, CA, United States 2016, 10,000 m³/d
Dalla Torre, Italy 2014, 264 m³/d

TRIPLE-T

Menashe 2- high concentration, Menashe, Gan Shmuel, Israel 2021, 3,500 m³/d
Iftach WWTP, Iftach, Kiryat Shemonah, Israel 2021, 800 m³/d
Other / Unknown
Menashe 2, Menashe, Gan Shmuel, Israel 2020, 3,500 m³/d
Zvulun, Haifa, Israel 2020, 800 m³/d
Bennet, Co, USA, Bennett, CO, United States 2019, 27 m³/d
Of Hanegev, Ofakim, Negev, Israel 2014, 1,650 m³/d
Kibbutz Lahav, Lahav, Eastern Negev, Israel 2013, 750 m³/d

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SELECTED REFERENCES

EPC Contractor

Belarus 2016, 2,400 m³/d RO
Russia 2016, 1,200 m³/d RO
Stary Oskol, Russia 2012, 5,280 m³/d RO
Dniprodzerzhynsk, Ukraine 2012, 3,366 m³/d Other/Unknown
Petropavlovsk, Kazakhstan 2012, 2,400 m³/d RO
Kerch, Ukraine 2012, 1,200 m³/d RO
Dniprodzerzhynsk, Ukraine 2012, 1,200 m³/d Other/Unknown

Water Standard Company



www.waterstandard.com

SELECTED REFERENCES

EPC Contractor

Offshore boiler feedwater project, Gulf of Mexico, United States
2016, 11,925 m³/d RO

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SELECTED REFERENCES

Plant Supplier (Desal)

Bulgaria 2019, 9,000 m³/d RO
Municipality of Chios, Chios Island, Greece 2019, 2,000 m³/d RO
Bulgaria 2019, 1,920 m³/d RO
Municipality of Tinos, Tinos Island, Greece 2019, 1,000 m³/d RO
Rhodes Island, Greece 2019, 600 m³/d RO
U.K., United Kingdom 2019, 240 m³/d RO
Municipality of Milos, Milos Island, Greece 2018, 1,200 m³/d RO
Rhodes Island, Greece 2018, 1,100 m³/d RO
Municipality of Syros, Syros Island, Greece 2018, 1,000 m³/d RO
Rhodes Island, Greece 2018, 600 m³/d RO
Municipality of Thira, Thira Island, Greece 2018, 340 m³/d RO
Bulgaria 2017, 2,400 m³/d RO
Rhodes Island, Greece 2017, 600 m³/d RO
Municipality of Megisti, Megisti Island, Greece 2017, 400 m³/d RO
Somalia 2017, 240 m³/d RO
Bulgaria 2016, 4,320 m³/d RO
Crete Island, Greece 2016, 700 m³/d RO
Municipality of Leros, Leros Island, Greece 2015, 2,000 m³/d RO
Rhodes Island, Greece 2015, 1,200 m³/d RO
Rodas Marine, Rhodes island, Greece 2015, 600 m³/d RO
Vitom SA, Thessaloniki, Greece 2015, 460 m³/d RO
Creta star, Creta island, Greece 2015, 300 m³/d RO
EQOS Energie, Opava, Czech Republic 2015, 300 m³/d RO
ELVAL SA, Inofyta, Greece 2015, 290 m³/d RO
Rhodes Horizon Resort, Rhodes island, Greece 2015, 250 m³/d RO
Notos Beach Resort, Rhodes island, Greece 2015, 220 m³/d RO
Loux Marlafekas SA, Patra, Greece 2015, 160 m³/d RO
Municipality of Mykonos, Mykonos island, Greece 2014, 2,500 m³/d RO
Municipality of Mykonos, Mykonos island, Greece 2014, 2,000 m³/d RO
Agroinvest SA, Lamia, Greece 2014, 700 m³/d RO
Municipality of Tinos, Tinos island, Greece 2014, 600 m³/d RO
Municipality, Kithnos island, Greece 2014, 600 m³/d RO

Lindos Imperial, Rhodes island, Greece 2014, 550 m³/d RO
Caldera Palace, Creta Island, Greece 2014, 450 m³/d RO
Olympic Palace, Rhodes island, Greece 2014, 410 m³/d RO
Kougiolis SA, Rhodes island, Greece 2014, 300 m³/d RO
EAS Argolidas, Argolida, Greece 2014, 300 m³/d RO
Akti Beach, Kos Island, Greece 2014, 300 m³/d RO
Eureka Hellas SA, Volos, Greece 2014, 270 m³/d RO
Fulgor SA, Korinthos, Greece 2014, 210 m³/d RO
Kitantzis SA, Athens, Greece 2014, 165 m³/d RO
Municipality - Greece, Patmos Island, Greece 2013, 1,200 m³/d RO
Municipality, Agkistri Island, Greece 2013, 1,200 m³/d RO
Ibese Plant, Slovakia 2013, 1,080 m³/d RO
Municipality, Tinos Island, Greece 2013, 720 m³/d RO
Diagoras SA, Rhodes Island, Greece 2013, 700 m³/d RO
MITAS SA, Otrokovice, Czech Republic 2013, 480 m³/d RO
Del Monte Hellas SA, Larisa, Greece 2013, 470 m³/d RO
Christodoulou SA, Argolida, Greece 2013, 365 m³/d RO
Xanthiako Co. Ltd., Porto Cheli, Greece 2013, 360 m³/d RO
Municipality, Folegandros Island, Greece 2013, 360 m³/d RO
Krestenitis SA, Rhodes Island, Greece 2013, 200 m³/d RO
Skouras, Sofiko, Greece 2013, 180 m³/d RO
Municipality, Kalamata, Greece 2013, 150 m³/d RO
Municipality, Donousa Island, Greece 2013, 150 m³/d RO
MITAS SA, Otrokovice, Czech Republic 2013, 130 m³/d RO
Tria, Faliro, Greece 2013, 100 m³/d RO
Foundation Propondis, Folegandros Island, Greece 2012, 720 m³/d RO
Colgate Palmolive, Athens, Greece 2012, 690 m³/d RO
META SA, Salonica, Greece 2012, 570 m³/d RO
Municipality - Greece, Lakonia, Greece 2012, 350 m³/d RO
Villaz SA, Kos Island, Greece 2012, 325 m³/d RO
Zacharakis-Ziganitidis, Chalkidiki, Greece 2012, 300 m³/d RO
Langlev, Kranidi, Greece 2012, 165 m³/d RO
EKTE SA, Salonica, Greece 2012, 120 m³/d RO
Public Power Corporation of Agios Georgios, Attica, Greece 2011, 1,000 m³/d RO
Laguna Resort Hotel, Crete, Greece 2011, 720 m³/d RO
Lindos Imperial Hotel, Rhodes, Greece 2011, 400 m³/d RO
Sunshine Vacation Hotel, Crete, Greece 2011, 300 m³/d RO
Miramare Resort Hotel, Crete, Greece 2011, 270 m³/d RO
Sunshine Vacation Hotel, Rhodes, Greece 2011, 220 m³/d RO
Municipality - Greece, Ios, Greece 2010, 1,000 m³/d RO
Public Power Corporation of Linoperamata, Crete, Greece 2010, 1,000 m³/d RO
Municipality - Greece, Ithaki, Greece 2010, 535 m³/d RO
Patmos Aktis Hotel, Patmos, Greece 2010, 120 m³/d RO

Technology and Equipment Supplier

Municipality of Folegandros, Folegandros, Greece 2021, 720 m³/d RO
Rhodes, Greece 2020, 1,400 m³/d RO
Municipality of Ios, Ios, Greece 2020, 1,080 m³/d RO
Municipality of Sifnos, Sifnos, Greece 2020, 1,000 m³/d RO
Imathia, Greece 2020, 550 m³/d RO
Attica, Greece 2020, 450 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Desalination System

De Watergroep De Blankaart, Diksmuide, Belgium 2022, 240 m³/d RO

CCRO De Ganzenpoot, Nieuwpoort, Belgium 2022, 8 m³/d RO

D&B Turnkey Plant

Watergroep Europoolsysteem Zellik EPS, Zelik, Belgium 2017, 480 m³/d MBR

Al Shamal STW, Qatar 2014, 8,112 m³/d Other / Unknown

D&B Turnkey Plant (Containerized)

Diageo, St. James Gate, Ireland 2019, 600 m³/d Other / Unknown

D&B Turnkey Plant Excl Civils

Diageo, Roseisle, Scotland, UK 2019, 1,080 m³/d Other / Unknown

De Watergroep /AB Inbev II, Leuven, Belgium 2019, 960 m³/d Other / Unknown

Heineken Sedibeng, Johannesburg, South Africa 2018, 1,517 m³/d Other / Unknown

De Watergroep/AB Inbev I, Leuven, Belgium 2017, 720 m³/d Other / Unknown

Vlisco, Ghana 2012, 768 m³/d Other / Unknown

Colruyt Group, Halle, Belgium, 274 m³/d Other / Unknown

Developer/Co-developer

Euro Pool Systems, Zellik, Belgium 2017, 480 m³/d RO

ABInbev Leuven, Leuven, Belgium 2016, 960 m³/d RO

EPC Contractor

undisclosed, Sas Van Gent, Belgium 2022, 3,600 m³/d UF

Colruyt Group Dassenveld, Halle, Belgium 2022, 300 m³/d RO

Cargill Sas Van Gent, Sas Van Gent, Netherlands 2022, 150 m³/d UF

Brouwerij Martens, Kaulille, Belgium 2022, 84 m³/d RO

Madinaty water treatment plant, Madinaty, Egypt 2021, 1,720 m³/d RO

Heineken Kilinto, Addis Ababa, Ethiopia 2021, 124 m³/d RO

McCain Lutosa, Leuze, Belgium 2019, 2,600 m³/d RO

Danone Rotselaar, Rotselaar, Belgium 2019, 1,680 m³/d RO

Diageo Roseisle, Roseisle, U.K. 2019, 1,200 m³/d RO

Diageo St James Gate, Dublin, Ireland 2019, 840 m³/d RO

Coca-Cola Chaudfontaine, Chaudfontaine, Belgium 2019, 768 m³/d RO

Heineken Phnom Penh, Phnom Penh, Cambodia 2018, 2,880 m³/d RO

Habesha Breweries, Habesha, Ethiopia 2018, 2,160 m³/d RO

Heineken Sedibeng, Sedibeng, South Africa 2018, 1,800 m³/d RO
Heineken Sedibeng, Johannesburg, South Africa 2018, 1,680 m³/d RO

Danone Rotselaar, Rotselaar, Belgium 2018, 1,680 m³/d RO

McCain Leuze, Leuze-en-Hainaut, Belgium 2017, 2,640 m³/d RO

EPS Brussels, Belgium 2017, 480 m³/d RO

Heineken Chihuahua, Chihuahua, Mexico 2016, 6,240 m³/d RO

Major Brewery (Confidential), Belgium 2016, 720 m³/d RO

P&G Tabler station, Inwood, West Virginia, United States 2016, 400 m³/d RO

Heineken Quang Nam, Quang Nam, Vietnam 2015, 120 m³/d RO

Vlisco, Ghana 2013, 720 m³/d RO

Vlisco, Accra, Ghana 2013, 720 m³/d RO

Effluent treatment Reliance, Jamnagar, India, 48,000 m³/d RO

Petrochemical Company Desalination Plant, Antwerp, Belgium, 2,280 m³/d RO

Farm Frites' Water Reuse Plant, Lommel, Belgium, 1,200 m³/d RO

Heineken Factory, Vientiane, Lao P.D.R., 1,200 m³/d RO

Textile Factory, Peronnes-lez-Binche, Belgium, 240 m³/d MBR

EPC Contractor and O&M Contractor

Marrakech WWTP - Phase 3, Marrakesh, Safi, Morocco 2016, 50,000 m³/d Other / Unknown

WesTech Engineering, Inc.



www.westech-inc.com

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Plant Supplier

Smoky Canyon Mine Treatment System - selenium removal, Afton, Wyoming, United States 2018, 10,902 m³/d RO

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Shortlisted for the prestigious “Desalination Company of the Year” at the Global Water Awards, 2023, WETICO has reinforced its global presence as a leading desalination, water and wastewater treatment multinational for both the municipal and industrial sectors.

Historically focused on delivery of cost-effective and environmentally sustainable projects in the world’s largest water market, Saudi Arabia, WETICO is widening its horizons across the MENA Region, winning a massive trio of contracts for mega projects in Algeria, with capacities totaling 900,000 m³/day, while setting the stage for a blockbuster presence in the new generation of mega desalination projects in the Gulf.

With global centers for design innovation and engineering competency coupled with in-house manufacturing facilities for electro-mechanical products and a renowned chemicals range, WETICO is well poised to surge to the top of the water contracting world.

With a global brand reputation of over 3 decades, WETICO has consistently earned a formidable position among IDA’s Top 10 Desalination Players by integrating its technologies across a range of desalination plant capacities. With a vision to create a sustainable future as an environmentally conscious organization, WETICO contributes to water security for over 12 million people across the globe every day. WETICO is proud to be one of the premier environmental solutions providers in the Middle East & North Africa.

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EPC Contractor

- Rabigh IV SWRO, Rabigh, Saudi Arabia 2023, 600,000 m³/d RO
- Al Tarf Seawater Desalination Plant, Al Tarf, Algeria 2023, 300,000 m³/d RO
- Bejaia Seawater Desalination Plant, Bejaia, Algeria 2023, 300,000 m³/d RO
- Cap Djinet Seawater Desalination Plant, Boumerdase, Algeria 2023, 300,000 m³/d RO
- Qiddiya WWTP Package -3, Riyadh, Saudi Arabia 2023, 22,000 m³/d Other / Unknown
- Qiddiya TSE RO, Riyadh, Saudi Arabia 2023, 16,000 m³/d RO
- Dawadmi BWRO Plant, Dawadmi, Saudi Arabia 2022, 1,500 m³/d RO
- Yamamah Palace BWRO, Riyadh, Saudi Arabia 2022, 1,100 m³/d RO

Plant Supplier (Desal)

- Mobile water skids to supply Demineralized Water for Power Plant, Central Region, Saudi Arabia 2022, 6,100 m³/d RO
- Nahar Pharma Reverse Osmosis pre-treatment, Riyadh, Saudi Arabia 2022, 28 m³/d RO
- Shoaiba RO Phase 4 Desalination Project, Shoaiba, Saudi Arabia 2021, 19,810 m³/d RO
- ICDOC Containerized Reverse Osmosis 1200 M³/D + 5000 M³/D Plant, Dammam, Saudi Arabia 2021, 6,200 m³/d RO
- Misk City-Ph.01 Sitewide Infrastructure project, Wadi Hanifa, Saudi Arabia 2021, 3,500 m³/d RO
- WTP for Al Melaidah & Al Sheqah, Qassim, Saudi Arabia 2020, 25,000 m³/d RO
- Extension of Wadi Al Dawasir WTP BWRO, Saudi Arabia 2019, 20,000 m³/d RO
- Al Washem & Shumaisy BWRO, Riyadh, Saudi Arabia 2019, 12,000 m³/d RO
- Al-Watania Poultry BWRO, Qassim, Saudi Arabia 2019, 900 m³/d RO
- Tabouk Water Treatment Plant Nano Filtration, Tabouk, Saudi Arabia 2017, 150,000 m³/d RO
- King Khalid International Airport (KKIA) WTP, Riyadh, Saudi Arabia 2015, 25,000 m³/d RO
- Tabouk Water Treatment Plant Nano Filtration, Tabouk, Saudi Arabia 2014, 100,000 m³/d RO
- Al-Hamra Extension RO & Filtration, Al Kharj-Riyadh, Saudi Arabia 2014, 18,000 m³/d RO
- Al-Hamra RO+Filtration, Al Kharj-Riyadh, Saudi Arabia 2014, 8,640 m³/d RO
- Al-Jomaih Filtration System, Al Qassim, Saudi Arabia 2014, 5,760 m³/d RO
- Industrial Cities Development & Operating Company RO Plant, Saudi Arabia 2014, 5,000 m³/d RO
- ONEE Boujdour Desalination, Morocco 2013, 10,500 m³/d RO
- National Industrial & Mining Co., Zouret, Mauritania 2013, 2,000 m³/d RO
- Jeddah, Saudi Arabia 2012, 240,000 m³/d RO
- Riyadh water supply enhancement programme, Saudi Arabia 2012, 65,000 m³/d RO
- Qurayyah IPP- Independent Power Project, Saudi Arabia 2012, 17,352 m³/d RO
- Poultry processing plant Hail Agricultural Development Co., Saudi Arabia 2012, 10,500 m³/d RO
- Al Rabiah farm, Al Kharj, Saudi Arabia 2012, 6,000 m³/d RO
- ICDOC, Dammam, Saudi Arabia 2012, 5,000 m³/d RO
- Al Baraka farm, Brida, Saudi Arabia 2012, 4,800 m³/d RO
- Al Badiyah farm, Al Kharj, Saudi Arabia 2012, 4,000 m³/d RO
- PP10 Power station conversion Riyadh (RO & Demin), Riyadh, Saudi Arabia 2012, 3,840 m³/d RO
- BWRO Plant for Abar Al Seeah, Madinah Munawarah, Saudi Arabia 2012, 3,000 m³/d RO
- Al Badiyah farm, Al Kharj, Saudi Arabia 2012, 2,640 m³/d RO
- Al Danah farm, Al Kharj, Saudi Arabia 2012, 2,640 m³/d RO
- Busaithah WTP, Al Jouf, Saudi Arabia 2011, 35,000 m³/d RO
- Rabigh-IPP - SWRO, Saudi Arabia 2011, 7,680 m³/d RO
- Aujan Soft Drinks SWRO Plant., Dammam, Saudi Arabia 2011, 2,400 m³/d RO
- Qassim Military Hospital - MODA, Qassim, Saudi Arabia 2011, 1,000 m³/d RO
- Al Manifa, Saudi Arabia 2010, 2,180 m³/d RO
- Dammam, Saudi Arabia 2010, 1,920 m³/d RO
- Al Dura, Saudi Arabia 2010, 1,000 m³/d RO
- Bahrain 2010, 720 m³/d RO
- Egypt 2010, 432 m³/d RO

Subcontractor

NEOM Logistic Park, Neom, Saudi Arabia 2022, 2,000 m³/d Other / Unknown

Wigen Water Technologies



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www.wigen.com

SELECTED REFERENCES

Desalination/Wastewater Reuse System Supplier

Pure Water Oceanside, Oceanside, California, United States 2020, 21,347 m³/d UF

Franklin Area WTP, Warren County, OH, United States 2020, 20,150 m³/d NF

Richard A. Renneker WTP, Warren County, OH, United States 2020, 34,065 m³/d NF

St. Vrain WTP, Firestone, CO, United States 2021, 6,056 m³/d RO

Possum Kingdom WSC WTP, Graford, TX, United States 2021, 4,315 m³/d RO

Pure Water Soquel, Soquel, CA, United States 2021, 7,949 m³/d RO

Pure Water Soquel, Soquel, CA, United States 2021, 6,321 m³/d RO

Columbia WTP, Boise, ID, United States 2022, 37,850 m³/d UF

Pure Water Oceanside, Oceanside, California, United States 2020, 17,034 m³/d UF

Post Falls Water Reclamation Facility, Post Falls, Idaho, United States 2019, 29,526 m³/d UF

Northern WTP Phase II Expansion, Brighton, Colorado, United States 2019, 24,984 m³/d RO

Marine Corps Air Ground Combat Center, Twentynine Palms, California, United States 2018, 12,113 m³/d RO

Pure Water Monterey Groundwater Replenishment Project, Monterey, CA, United States 2017, 37,854 m³/d RO

Pure Water Monterey Groundwater Replenishment Project, Monterey, CA, United States 2017, 20,820 m³/d RO

Mueller Park WTP, Bountiful City, Utah, United States 2017, 7,571 m³/d UF

Napoleon WTP, Napoleon, Ohio, United States 2016, 15,142 m³/d NF

Hastings, Nebraska, United States 2016, 6,814 m³/d RO

Pearland, Texas, United States 2016, 5,678 m³/d RO

Freeport, TX, United States 2014, 87,064 m³/d UF

Ferndale, Washington, United States 2014, 8,139 m³/d RO

Lake Andes, South Dakota, United States 2012, 15,142 m³/d UF

Paulding, Ohio, United States 2012, 4,921 m³/d RO

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SELECTED REFERENCES

Design and Build

Textile-Dyeing Wastewater Treatment Plant, Ha Tinh, Distt. Bac Giang Province, Vietnam 2022, 10,000 m³/d RO

Supply of Wastewater Treatment and Recycling Plant (300 M³/hr. (MBR and RO Based), Faisalabad, Pakistan 2022, 7,200 m³/d RO

EPC Contractor

Textile Effluent Treatment Plant, Andhra Pradesh, India 2022, 10,000 m³/d MBR

Deisel Euro V Project, Thailand 2022, 8,640 m³/d Other / Unknown

Zero Liquid discharge based Effluent Treatment Plant, Bhatinda, Punjab, India 2022, 1,920 m³/d Other / Unknown

Patong SWRO, Phuket, Thailand 2019, 25,000 m³/d RO

Pt Berkah Kawasan Manyar Sejahtera (BKMS) SWRO, Singapore 2019, 2,400 m³/d RO

IBN Sina wastewater reuse, Saudi Arabia 2019, 840 m³/d RO

Sea Water Desalination Plant - Permeate For AKR Port, Gresik, Indonesia 2016, 4,800 m³/d RO

Wood Plc



United Kingdom 44 20 7429 7500

www.amecfw.com

SELECTED REFERENCES

Co-Developer

Lions Gate Secondary WWTP, Vancouver, BC, Canada 2017, 102,000 m³/d Secondary treatment

**Zarzuela, S.A. Empresa
Constructora**



Spain

(+34) 983 359 600

zarzuela@zarzuelasa.es

www.zarzuelasa.es

SELECTED REFERENCES

EPC Contractor

Venta de Baños WWTP - Expansion, Spain 2016, o Tertiary

**Zhonghe Seawater
Desalination Engineering
Co., Ltd**



China

+86-22-6619-0111
+86-22-6619-0100

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www.zhdec.com

SELECTED REFERENCES

Plant Supplier (Desal)

Vee Shaka Pat Nangang , India 2014, 16,000 m³/d RO
Zhoushan, China 2014, 12,000 m³/d MED

**Zhongsan Environmental
Protection Industry
Development Co., Ltd.**



www.huron-tech.com/en

SELECTED REFERENCES

EPC Contractor

Chengdu Hi-tech Water Reuse Project, Chengdu, Sichuan Province,
China 2012, 10,000 m³/d

Electrical Equipment


Selected references since 2012 from companies supplying electrical equipment or control systems for desalination systems. Companies in this directory are not classified by reference type.

Legend

(D) Desalination **(R)** Wastewater reuse

ABB Group **(D)**

 Italy

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 water.team@it.abb.com

www.abb.com/water

SELECTED REFERENCES

Software Supplier

Al-Ghubra, Muscat, Oman 2012, 190,932 m³/d RO

Adsyst **(D)**

www.adsyst.co.uk

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Equipment Supplier: PLC/SCADA Control Systems

River Thames Desalination Plant, Greater London, United Kingdom, RO

Emerson **(D)** **(R)**


www.emerson.com/global

SELECTED REFERENCES

Equipment Supplier: SCADA Systems

SRCS D Wastewater Treatment Plant, Sacramento, California, United States, 150 MGD Other / Unknown

Hach **(D)**

 United States of America  800 227 4224

 info@hach.com

www.Hach.com

SELECTED REFERENCES

Water Quality Measurement

Desal Santorini, Greece 2021, 5,500 m³/d RO
Desalination Chora/Tinos, Greece 2021, 1,000 m³/d RO
Nemeli Chennai Phase 2, India 2021, RO
Planta de Filtros Salar del Carmen, Chile 2021
Planta desaladora, Chile 2021
Rabigh III, Saudi Arabia 2020, 600,000 m³/d RO
Rabigh, Saudi Arabia 2020, 600,000 m³/d RO
Shuqaiq 3 IWP, Saudi Arabia 2020, 450,000 m³/d RO
Umm al Houf Expansion, Qatar 2020, 280,000 m³/d RO
Al Khobar 1 Expansion, Saudi Arabia 2020, 210,000 m³/d RO
Tuas South Desalination plant, Singapore 2020, 130,000 m³/d RO
Fouka Extension, Algeria 2020, 120,000 m³/d RO
Dubai, United Arab Emirates 2020, 41,000 m³/d RO
Desaladora Atacama, Chile 2020, 38,880 m³/d RO
Abu Zenima, Egypt 2020, 20,000 m³/d RO
Paphos Desalination Plant, Cyprus 2020, 15,000 m³/d RO
Ras Lanuf, Libya 2020, 5,000 m³/d RO
Planta de Filtros de Baquedano / Planta de Filtros de Sierra Gorda, Chile 2020
Al Khobar 2, Saudi Arabia 2019, 630,000 m³/d RO
Umm al Houf Expansion, Qatar 2019, 284,000 m³/d RO
Agadir, Morocco 2019, 275,000 m³/d RO
Jurong Island Desalination Plant, Singapore 2019, 137,000 m³/d RO
Salalah 3 IWP, Oman 2019, 114,000 m³/d RO
Sousse, Tunisia 2019, 50,000 m³/d RO
Jebel Ali Power Station, Dubai, United Arab Emirates 2019, 41,000 m³/d RO
Kefalonia Desalination Plant, Greece 2019, 8,000 m³/d RO
Desalination Myconos, Greece 2019, 2,500 m³/d RO
Chios Desalination (3), Greece 2019, 2,000 m³/d RO
Nisiroi Desalination, Greece 2019, 500 m³/d RO
Al Khobar 1 Expansion, Saudi Arabia 2018, 210,000 m³/d RO
Desaladora Minera Spence Mejillones, Chile 2018, 86,000 m³/d
IDAM Ensenada, Mexico 2018, 21,600 m³/d RO
Almyros Desalination I+II, Greece 2018, 6,000 m³/d RO
Desalination Naxou, Greece 2018, 1,000 m³/d RO
Ikaria Desalination, Greece 2018, 500 m³/d RO
Alepochori Desalination, Greece 2018, 350 m³/d RO

Desalination Irakleia/Santorini, Greece 2018, 300 m³/d RO
 Empalme-Guayamas, Mexico 2017, 21,600 m³/d RO
 Umm al Houf, Qatar 2016, 272,760 m³/d RO
 El Alamein, Egypt 2016, 150,000 m³/d RO
 Sarlux Refinery, Italy 2016, 12,000 m³/d RO
 Desalination Kini/Syros, Greece 2016, 750 m³/d RO
 Tuas Desal 3, Saudi Arabia 2016, RO
 Basrah P3/P4, Iraq 2015, 199,000 m³/d RO
 Mirfa, UAE 2015, 140,000 m³/d RO
 Al Khafji (Solar-powered), Saudi Arabia 2015, 60,000 m³/d RO
 Yanbu Desal Plant, Saudi Arabia 2015, 30,000 m³/d RO
 Desalination Vari/Syros, Greece 2015, 750 m³/d RO
 Leros Desalination, Greece 2015, 500 m³/d RO
 PTAS La Farfana (Biofactoría), Chile 2014, 760,000 m³/d
 PTAS El Trebal (Biofactoría), Chile 2014, 570,000 m³/d
 Djerba, Tunisia 2014, 50,000 m³/d RO
 Desalination Hydra, Greece 2014, 1,600 m³/d RO
 Planta de pulpa y celulosa (Proyecto Mapa), Chile 2014
 Az Zour South, Kuwait 2013, 136,000 m³/d RO
 EAC Vassilikos Desalination Plant, Cyprus 2013, 60,000 m³/d RO
 Desaladora Copiapó, Chile 2013, 54,000 m³/d RO
 Desalination Poseidonia/Syros, Greece 2013, 1,000 m³/d RO
 Desalination Ammoudaria/Tinos, Greece 2013, 750 m³/d RO
 Limassol (Episkopi) Desalination Plant, Cyprus 2012, 60,000 m³/d
 RO
 Desalination Oia/Santorini, Greece 2012, 500 m³/d RO
 Desalination Thirasia/Santorini, Greece 2012, 140 m³/d RO
 Bahrain Naval Base, Bahrain, RO
 Jebel Ali SWRP, Dubai, United Arab Emirates, RO
 SWRO Dubal, Dubai, United Arab Emirates, RO
 Fujairah PP F2, Fujairah, United Arab Emirates, RO
 Sharjah Electricity and Water Authority SEWA, Khorfaqan, United
 Arab Emirates, RO
 Huangua, Libya, ED
 OCP Desalination Plant, Morocco, RO
 Bahwan Veolia Water, Oman, RO
 Sohar Desalination Plant (Ministry), Oman, ED
 Sur, Oman, RO
 SWRO Salalah, Oman, RO
 Doha West, Qatar, RO
 Ras Abu Fontas, Qatar, RO
 Ras Girtas, Qatar, RO
 UHP2, Qatar, RO
 Ras Laffan - Ras Girtas, Qatar, ED
 Yanbu 2 desalination plant, Saudi Arabia, RO
 Al Khobar SWRO, Saudi Arabia, RO
 SWCC, Saudi Arabia, RO
 SWCC, Saudi Arabia, ED
 Sharjah Municipality, Sharjah, United Arab Emirates, RO
 Ganouch / STEG, Tunisia, RO
 Fujairah FII (FAPCO), United Arab Emirates, ED
 Fujairah FII Project (AZALIYA O&M), United Arab Emirates, RO
 Veolia Sharjah 6 MIGD UF Plant.xls, United Arab Emirates, RO

Rockwell



www.rockwellautomation.com

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Equipment Supplier: Control Systems

KwaZulu-Natal, South Africa 2018, 2,000 m³/d RO

Rotork



United Kingdom

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www.rotork.com

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Equipment Supplier: Control Systems

Desalination Plant - North Field Expansion (Ras Laffan), Qatar
2022

Water Supplies Department - Desalination Project, Hong Kong
2022

Haya - Desalination Project, Oman 2022

Shuaibah South Desal Plant, Italy 2022

Manatee Reuse Wet Weather, United States 2021

Al Khobar 2 Desalination Plant, Saudi Arabia 2021

Desalination Plants at Gujarat - India, India 2021

UHP-2- Umm Al Houf II SWRO, Qatar 2021

Orange Country Water District, United States 2021

Umm Al Houf Project, Qatar 2021

Watersure (Suez Water & Ventia UT), Australia 2021

Bacon Park Reuse, Savanna, United States 2019

Naples Reuse Interconnect, United States 2019

Apopka NW WRF Reuse, United States 2018

Valor Blvd Reuse Water System, United States 2017

O&M and Equipment Supplier: Valve Actuators and Control Systems

NFP - UHP, Qatar, Other / Unknown

UHP Expansion, Qatar, Other / Unknown

UHP Expansion, Spain, Other / Unknown

Equipment Supplier: Valve Actuators and Control Systems

Drouin WWTP Upgrade, Australia 2021, Other / Unknown

CSP - Toowoomba Regional Council, Australia 2021, Other /
Unknown

Farley WTP / Hunter Water, Australia 2021, Other / Unknown

Loganholme Lift Station Dry Well, Australia 2021, Other /
Unknown

Luggage Point STP, Australia 2021, Other / Unknown

South Caboolture STP Upgrade, Australia 2021, Other / Unknown

- S.A. Water, Naracoorte WWTP, Australia 2021, Other / Unknown
 Utilita Goodna WWTP - H2, Australia 2021, Other / Unknown
 Almoayyed Al Ezzel, Bahrain 2021, Other / Unknown
 Ashbridges Bay Treatment Plant Upgrade, Canada 2021, Other / Unknown
 Bonnybrook WWTP Fog Receiving Facility, Canada 2021, Other / Unknown
 Urumqi Recovery Water Project, China 2021, Other / Unknown
 Cheung Sha Wan SPS, Hong Kong 2021, Other / Unknown
 Shau Kei Wan PTW, Hong Kong 2021, Other / Unknown
 Tai Po STW, Hong Kong 2021, Other / Unknown
 Triveni, India 2021, Other / Unknown
 Udaipur Smart City, India 2021, Other / Unknown
 DTSW Terminal Pump Station, Italy 2021, Other / Unknown
 New European PDH Kallo, Italy 2021, Other / Unknown
 Orton Ds-20-0029 Aramco Saudi, Italy 2021, Other / Unknown
 Siauliai Wastewater Plant, Lithuania 2021, Other / Unknown
 South West Wastewater Service, Northern Ireland, United Kingdom 2021, Other / Unknown
 DWR Cymru Welsh Water, Northern Ireland, United Kingdom 2021, Other / Unknown
 Severn Trent Water, Northern Ireland, United Kingdom 2021, Other / Unknown
 Haya Waters Seeb Sewage Treatment Plant, Oman 2021, Other / Unknown
 Mandai Park Development - Dawt, Singapore 2021, Other / Unknown
 Kavak Samsun WWT, Turkey 2021, Other / Unknown
 Dubai Municipality Drainage & Irrigation, United Arab Emirates 2021, Other / Unknown
 Algonquin WWTP, United States 2021, Other / Unknown
 Bay County WWTP, United States 2021, Other / Unknown
 Bowling Green WTP, Kentucky, United States 2021, Other / Unknown
 Carlisle WWTP, United States 2021, Other / Unknown
 Cary South WWTP, United States 2021, Other / Unknown
 CCCSD Pump Station, United States 2021, Other / Unknown
 Cedar Creek WWTP, United States 2021, Other / Unknown
 City Of Charlotte WWTP, Michigan, United States 2021, Other / Unknown
 City Of Louisville Co WWTP, United States 2021, Other / Unknown
 City Of Mount Clemens WWTP, United States 2021, Other / Unknown
 City Of Olathe WWTP, United States 2021, Other / Unknown
 Cleveland Crown WWTP, United States 2021, Other / Unknown
 Dupage County Upgrade Project, United States 2021, Other / Unknown
 DWB Roberts Tunnel, United States 2021, Other / Unknown
 Ershings-Star WWTP, Idaho, United States 2021, Other / Unknown
 Hillsdale WWTP, Kansas, United States 2021, Other / Unknown
 Houston WWTP, Texas, United States 2021, Other / Unknown
 Howard F Curren Advanced WWTP, United States 2021, Other / Unknown
 Jackson WWTP, Michigan, United States 2021, Other / Unknown
 Joliet WWTP Upgrade, Illinois, United States 2021, Other / Unknown
 Kalamazoo WWTP, Michigan, United States 2021, Other / Unknown
 Launder St WWTP, United States 2021, Other / Unknown
 Miscowater, United States 2021, Other / Unknown
 North Brevard WWTP, United States 2021, Other / Unknown
 Port St. Lucie Westport WWTP, United States 2021, Other / Unknown
 Savanna WWTP, United States 2021, Other / Unknown
 Star WWTP, Indiana, United States 2021, Other / Unknown
 Tomahawk WWTP Leawood, Kansas, United States 2021, Other / Unknown
 Tomahawk WWTP, United States 2021, Other / Unknown
 TSSD Aeration Upgrade, United States 2021, Other / Unknown
 Scottish Water - Tobermory WTW, United Kingdom 2021, Other / Unknown
 Scottish Water - Shieldhall WWTW, United Kingdom 2021, Other / Unknown
 Ashbourne - STW, United Kingdom 2021, Other / Unknown
 Ballykelly WTW Northern Ireland, United Kingdom 2021, Other / Unknown
 Barcombe WTW, United Kingdom 2021, Other / Unknown
 Essex & Suffolk Water, United Kingdom 2021, Other / Unknown
 Glendevon WTW, United Kingdom 2021, Other / Unknown
 Hardham WTW, United Kingdom 2021, Other / Unknown
 Northumbrian Water Limited, United Kingdom 2021, Other / Unknown
 Scottish Water - Earlston WWTW, United Kingdom 2021, Other / Unknown
 Scottish Water - Stoer WTW, United Kingdom 2021, Other / Unknown
 Daldowie WWTW, United Kingdom 2021, Other / Unknown
 Walton Affinity Water, United Kingdom 2021, Other / Unknown
 Winchburgh WWTW - Scottish Water, United Kingdom 2021, Other / Unknown
 DWR CYMRU Welsh Water, United Kingdom 2021, Other / Unknown
 CK and AWT Changing Or Our T31, Cyprus 2020, Other / Unknown
 Shuqaiq 3 Desalination Plant, Saudi Arabia 2019, 450,000 m³/d RO
 Umm Al Houli II Swro, Qatar 2019, 280,000 m³/d RO
 Bapco Med, Bahrain 2019, 67,782 m³/d RO
 Aseelah Iwp - Sharqiyah, Oman 2017, 80,000 m³/d RO
 Qurayyat IWP Desalination, Oman 2016, 200,000 m³/d RO
 Sve Chino Desalter, United States 2016, 6,276 m³/d RO
 Aguas Antofagasta - Tocopilla, Chile 2014, 17,280 m³/d RO
 Az Zour North 1 IWPP, Ra's az Zawr, Kuwait 2013, 486,400 m³/d MED
 Antofagasta, Chile 2013, 216,000 m³/d RO
 Ras Abu Fontas 2 Desalination, Qatar 2013, 163,656 m³/d MSF
 Es - Cadagua Edar Arona - IX I, Spain 2013, 32,000 m³/d RO
 Carlsbad proposed site, California, United States 2012, 189,250 m³/d RO
 Fujairah Power & Desalination, Dubai, United Arab Emirates 2012, 136,000 m³/d RO
 Orange County Water District, United States 2012, 113,550 m³/d RO
 Shoaibah 4 Desalination Plant, Saudi Arabia, RO
 Umm Al Houli II SWRO, Qatar, RO
 Wheal Jane Minewater Plant, United Kingdom, Other / Unknown
 Bacon Park Reuse Water System, United States, Other / Unknown
 Naples Reuse Interconnect, United States, Other / Unknown
 Expansion of Tai Po Water Treatment, Hong Kong, Other / Unknown
 Divine Automation, South Africa, Other / Unknown
 Peticie Oferta Val. Papallona, Spain, Other / Unknown
 PTW LTM, Thailand, Other / Unknown
 Sevtur IQ, Turkey, Other / Unknown
 Gulf Stream, United States, Other / Unknown

- Groundwater Desalter and Well, United States , Other / Unknown
 UK - Severn Trent Water, United Kingdom , Other / Unknown
 Australia (Mr2) General Proj., Australia, RO
 Electric Actuators, France, RO
 Mrpl - 3o Mld Swro Desalinatio, India, RO
 Eq19M318 _ Sepco3 Po# Saoo5-Sm, Saudi Arabia, RO
 Ummlujj Desalination Plant - S, Saudi Arabia, RO
 Reformas En Desaladora Del Pr, Spain, RO
 Spain General Proj - Madrid Re, Spain, RO
 Yuma Desalter, United States, RO
 Apopka NW WRF Reuse, United States, Other / Unknown
 Changi Air Base, Singapore, Other / Unknown
 Changi Membrane Bio-Reactor PH, Singapore, Other / Unknown
 Changi Water Reclamation Plant - C21B, Singapore, Other / Unknown
 Changi WRP-EP6, Singapore, Other / Unknown
 Improve Changi WRP, Singapore, Other / Unknown
 NeWater Reservoir Project, Singapore, Other / Unknown
 Valor Blvd Reuse Water System, United States, Other / Unknown
 ALX9999S, Algeria, Other / Unknown
 CITIC Pacific Mining, Australia, Other / Unknown
 CITIC Pacific Mining Pump St, Australia, Other / Unknown
 Southern Seawater Desalination Plant, Australia, Other / Unknown
 Desaladora Candelaria, Chile, Other / Unknown
 INGIMEX Soprole Water Soften, Chile, Other / Unknown
 Maintenance Desaladora Candela, Chile, Other / Unknown
 Retrofit & Spares Escondida Water, Chile, Other / Unknown
 CZX9999A, Czech Republic, Other / Unknown
 FRX9999Z, Franc, Other / Unknown
 Phed West Bengal, India , Other / Unknown
 Al-Zour North IWPP, Kuwait, Other / Unknown
 Sohar 3 IWP, Oman, Other / Unknown
 Jubail Desalination Plant C8, Saudi Arabia, Other / Unknown
 Saudi Arabia General Projects, Saudi Arabia, Other / Unknown
 SPX9999C, Spain, Other / Unknown
 SPX9999F, Spain, Other / Unknown
 Djerba Island Water Desalination, Tunisia, Other / Unknown
 Chino I Desalter, United States, Other / Unknown
 Robert Goldsworthy Desalination Expansion, United States, Other / Unknown
 Robert W. Goldsworthy Desalter, United States, Other / Unknown
 United Utilities, United Kingdom, Other / Unknown
 UKXRTWU9, United Kingdom, Other / Unknown
 Citic Pacific Mining-Sino IR, Australi, Other / Unknown
 La Chimba Desalination Plant, Chile, Other / Unknown
 Qatar General Projects, Qatar, Other / Unknown
 Containerised Desalination Yan, Saudi Arabia, Other / Unknown
 Shuqaiq Retrofit, Saudi Arabia, Other / Unknown
 Acciona Agua RPC, Venezuela, Other / Unknown
 Venezuela General Projects, Venezuela, Other / Unknown
 Escondida Desalination Plant, Chile, Other / Unknown
 FR9999Z, France, Other / Unknown
 GH9999A, Ghana, Other / Unknown
 Jamnagar Desalination/IDE Plant, India, Other / Unknown
 Israel General Projects, Israel, Other / Unknown
 Korea General Projects, South Korea, Other / Unknown
 KR9999X, Korea (South), Other / Unknown
 Yanbu IWPP Phase 3, Saudi Arabia, Other / Unknown
 Yanbu IWPP Phase 4, Saudi Arabia, Other / Unknown
 SP9999E, Spain, Other / Unknown
 UA9999A, United Arab Emirates, Other / Unknown
 Chino Creek Well Field I-2o, United States, Other / Unknown
 Hemlock WTP, United States, Other / Unknown
 Holland Board of Public Works, United States, Other / Unknown
 Orlando FL - Eastern WRF, United States, Other / Unknown
 USA General - JAK - MISC, United States, Other / Unknown
 Ad Dur, Bahrain, Other / Unknown
 Hidd Power & Desalination, Bahrain, Other / Unknown
 Larnaca, Cyprus, Other / Unknown
 Sirte Power & Desalination, Libya, Other / Unknown
 Barka Power & Desalination, Oman, Other / Unknown
 Ghubrah Power & Desalination, Oman, Other / Unknown
 Al Jubail Power & Desalination, Saudi Arabia, Other / Unknown
 Al Khobar Phase III, Saudi Arabia, Other / Unknown
 Jeddah, Saudi Arabia, Other / Unknown
 Rabigh, Saudi Arabia, Other / Unknown
 Carboneras Conexion Desaladora, Spain, Other / Unknown
 Idam Barcelona, Spain, Other / Unknown
 Phuket, Thailand, RO
 Al Taweelah, United Arab Emirates, Other / Unknown
 Jebel Ali L, Dubai, United Arab Emirates, Other / Unknown
 Ras Al Khiamah, United Arab Emirates, Other / Unknown
 Chino Desalter II, Riverside County, CA, United States, Other / Unknown
 WA Desal, Australia, Other / Unknown
 Wonthaggi Desalination Plant, VIC, Australia, Other / Unknown
 Bahrain General Projects, Bahrain, Other / Unknown
 Lorne Park WTP, ON, Canada, Other / Unknown
 Euroguarco Prj, China, Other / Unknown
 KW II, Kuwait, Other / Unknown
 Fire-Fighting System, Saudi Arabia, Other / Unknown
 Industrial Water Pumping Station - Jurong WRP, Singapore, Other / Unknown
 GE Energy, Spain, Other / Unknown
 MTS Valves, Spain, Other / Unknown
 City of Hialeah Deep Injection, FL, United States, Other / Unknown
 Santa Cruz SWRO, CA, United States, Other / Unknown
 Desaladora Candelaria, Chile, Other / Unknown
 Sirusa, Malaysia, Other / Unknown
 Rolling Hills, United States, Other / Unknown
 Thames Water, London, United Kingdom, Other / Unknown
 Gold Coast Desalination Alliance, Australia, Other / Unknown
 Perth II Southern Seawater Desalination Plant, Australia, Other / Unknown
 Perth Southern Seawater Desalination Plant, Australia, Other / Unknown
 Idam Copiapo Desalination Plan, Chile, Other / Unknown
 Indonesia General Projects, Indonesia, Other / Unknown
 Dead Sea Works Desalination, Israel, Other / Unknown
 Shuwaikh Desalination Station, Kuwait, Other / Unknown
 Oman General Projects, Oman, Other / Unknown
 Philippines General Projects, Philippines, Other / Unknown
 Jubail WTP - Biological Blower, Saudi Arabia, Other / Unknown
 Marafiq & Yanbu, Saudi Arabia, Other / Unknown
 Marin County (Formerly San Raf), United States, Other / Unknown

Yorkville Sanitar II, United States, Other / Unknown
London Gateway, United Kingdom, Other / Unknown
Delta Industrial, United States, Other / Unknown
Carlsbad Desalter, United Arab Emirates, Other / Unknown
Trinidad WI, Trinidad and Tobago, Other / Unknown
Spain General Project - V/M's, Spain, Other / Unknown
Spain General Project - Southwest, Spain, Other / Unknown
Spain General Project - Northwest, Spain, Other / Unknown
Campo Dalias Almeria, Spain, Other / Unknown
SWCC Transmission Upgrade, Saudi Arabia, Other / Unknown
SWCC - Satellite Desalination, Saudi Arabia, Other / Unknown
SD3881A, Saudi Arabia, Other / Unknown
Saudi Arabia General Projects, Saudi Arabia, Other / Unknown
Portugal General Projects, Portugal, Other / Unknown
Mexico General Projects, Mexico, Other / Unknown
KU9999A, Kuwait, Other / Unknown
Kubota/Yanbu, Japan, Other / Unknown
Mekorot General Projects, Israel, Other / Unknown
Ashdod Desalination Plant, Israel, Other / Unknown
PWD Altinho Panaji-Goa, India, Other / Unknown
GH9999Z, Ghana, Other / Unknown
FR9999A, France, Other / Unknown
CH9999A, Chile, Other / Unknown
Algeria PF139768, Algeria, Other / Unknown
SWCC Shoaiba 2 Power and Desalination, Saudi Arabia, Other / Unknown

Al-Lith SWRO, Al Lith, Saudi Arabia 2019, 32,000 m³/d RO
Haql SWRO, Haql, Saudi Arabia 2019, 24,000 m³/d RO
Huba SWRO, Huba, Saudi Arabia 2019, 24,000 m³/d RO
Al-Wadj SWRO, Al Wadj, Saudi Arabia 2019, 24,000 m³/d RO
Umm Lujj SWRO, Umm Lujj, Saudi Arabia 2019, 24,000 m³/d RO
Farsan SWRO, Farsan, Saudi Arabia 2019, 16,000 m³/d RO
Al Khafji solar SWRO, Al Khafji, Saudi Arabia 2016, 60,000 m³/d RO

Equipment Supplier: DCS, Instrumentation and Gas Insulated Switchgear

Taweelah RO IWP, Taweelah, United Arab Emirates 2020, 910,000 m³/d RO

Ghalilah RO, United Arab Emirates 2014, 68,000 m³/d RO

Equipment Supplier: DCS, Instrumentation and Switchgear

Al Khobar 1 SWRO, Saudi Arabia 2019, 210,000 m³/d RO

Equipment Supplier: Switchgear

Al Khobar 2 SWRO, Al Khobar, Saudi Arabia 2020, 600,000 m³/d RO

Schneider Electric SA



www.se.com/za/en

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Smart Solutions Provider

Fritzens wastewater treatment plant (WWTP), Austria, Other / Unknown

Siemens AG



Global

water.automation@siemens.com

www.siemens.com/water

SELECTED REFERENCES

Equipment Supplier: Complete Instrument and Control and Electrical Systems

Shoaiba 5 SWRO (Shoaiba 1 Replacement), Shoaiba, Saudi Arabia 2021, 600,000 m³/d RO

Qunfudha SWRO, Qunfudha, Saudi Arabia 2019, 48,000 m³/d RO

Rabigh Satellite SWRO, Rabigh, Saudi Arabia 2019, 32,000 m³/d RO

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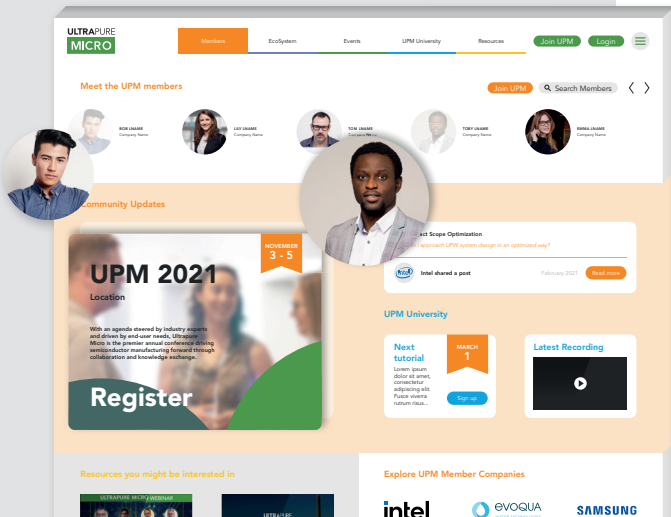
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Equipment Supplier: Electrical Equipment and Solutions

- Metito and SSEM, Jubail, Saudi Arabia 2023, 1,000,000 m³/d RO
- SIDEM, Mirfa, United Arab Emirates 2023, 363,800 m³/d RO
- Collahuasi SWRO (CMDIC), Iquique, Chile 2022, 90,720 m³/d RO
- Aconcagua SWRO (Quintero), Quillota, Chile 2022, 86,400 m³/d RO
- Chira-Soria SWRO-Gran Canaria, Salto de Chiria, Spain 2022, 7,800 m³/d RO
- Melilla Desalination Plant Expansion, Melilla, Spain 2021, 30,000 m³/d RO
- Mobile SWRO Package No.2, Saudi Arabia 2021, 10,000 m³/d RO
- Jubail 3A IWP, Saudi Arabia 2020, 600,000 m³/d RO
- Sorek 2 Desalination Plant, Israel 2020, 548,000 m³/d RO
- Mostaganen SWRO, Mostaganen, Algeria 2020, 200,000 m³/d RO
- Cap Djinet SWRO, Cap Djinet, Algeria 2020, 100,000 m³/d RO
- Los Pelambres SWRO, Los Vilos, Chile 2020, 34,560 m³/d RO
- Antofagasta SWRO - La Chimba Expansion, Chile 2020, 32,832 m³/d RO
- Rabigh 3 SWRO, Saudi Arabia 2019, 600,000 m³/d RO
- Shuqaiq Desalination Plant Phase 3 (IWP), Saudi Arabia 2019, 450,000 m³/d RO
- Jubail I Replacement (Jubail RO 2), Saudi Arabia 2019, 400,000 m³/d RO
- Shuqaiq 3 SWRO, Saudi Arabia 2019, 380,000 m³/d RO
- Agadir SWRO, Morocco 2019, 275,000 m³/d RO
- Al Dur Independent Water & Power Plant (Phase 2), Bahrain 2019, 227,300 m³/d RO
- Emirates Global Aluminium Complex SWRO, Jebel Ali, United Arab Emirates 2019, 40,914 m³/d RO
- Lanzarote III, Spain 2019, 30,000 m³/d RO
- Empalmes & Guaymas SWRO, Mexico 2019, 17,280 m³/d RO

- Talara Refinery Modernization (PMRT), Talara, Peru 2019, 20,000 m³/d RO
- ArcelorMittal Tubarão, Tubarão, Brazil 2019, 12,000 m³/d RO
- Shuaibah 4 SWRO, Saudi Arabia 2018, 400,000 m³/d RO
- Shuaibah Plant 3 Expansion, Saudi Arabia 2018, 250,000 m³/d RO
- Minera Spence SWRO, Antofagasta, Chile 2018, 138,240 m³/d RO
- Jurong Island SWRO, Singapore 2018, 136,380 m³/d RO
- Quebrada Blanca Phase II SWRO, Tarapacá, Chile 2018, 73,400 m³/d RO
- Atacama SWRO, Caldera, Chile 2018, 38,880 m³/d RO
- Provisur SWRO, Lima, Peru 2018, 38,560 m³/d RO
- Al Khafji SWRO Desalination Plant, Saudi Arabia 2016, 60,000 m³/d RO
- Djerba SWRO Desalination Plant, Tunisia 2016, 50,000 m³/d RO
- Al Jubail SWRO Desalination Plant, Saudi Arabia 2015, 100,000 m³/d RO

Yokogawa Electric Corp.



📍 Tokyo, Japan 📞 81 422 52 5541

www.yokogawa.com/uk

SELECTED REFERENCES

Equipment Supplier: Control Systems

- Provisur SWRO, Lima, Peru 2013, 2,019 m³/d RO

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Engineers

Selected references since 2012 from engineering consultancies and civil contractors active in desalination or reuse. Companies that undertake both process engineering and civil engineering are placed in the 'Developers & plant suppliers' section.

Legend

 Desalination  Wastewater reuse

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SELECTED REFERENCES

Expert Advice

Sydney, NSW, Australia

Planning

Esperance, WA, Australia

ACWA Services Ltd.

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SELECTED REFERENCES

Contractor

Princess Noura University for Women (PNUFW), Riyadh, Saudi Arabia 2012, 7,000 m³/d RO

ADAN Technical & Economic Services Ltd.

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SELECTED REFERENCES

Technical Advisor

Ramat Ha'sharon IMI, Ramat Ha'sharon, Israel 2023, 15,600 m³/d Other / Unknown

IMI "Magen" compound, Tel Aviv, Israel 2020, Other / Unknown

Engineering Consultant

Sorek 2, Israel 2019, 200,000,000.0 m³/yr RO

Dead Sea Water Project (Phase I), Israel 2015, RO

Ashdod, Israel 2011, 274,000 m³/d RO

Sorek 1, Israel 2010, 411,000 m³/d RO

Palmachim expansion from 45 MCMY to 90 MCMY, Israel 2013, 123,287 m³/d RO

Jordan Valley, Israel 2013, 19,180 m³/d RO

Western Galilee, Israel 2022, 100,000,000.0 m³/yr RO

IMI "Magen" compound, Tel Aviv, Israel 2020, Other / Unknown

Ramat Ha'sharon IMI, Ramat Har'sharon, Israel, 48,000 m³/d ED

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SELECTED REFERENCES

Design Engineer

Lions Gate Secondary WWTP, Vancouver, Canada 2017, 102,000 m³/d

City of Hialeah WTP, FL, United States 2013, 47,312 m³/d RO

Tampa Electric Co. Water Reclamation Facility, FL, United States 2013, 32,172 m³/d RO

Adams Robinson Enterprise, Inc.

www.adamsrobinson.com

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Prime Contractor

Orange County Eastern WRP - Phase 5, Orlando, Florida, United States 2015, 18,925 m³/d Tertiary treatment

Davie WTP, Town of Davie, FL, United States 2013, 22,710 m³/d RO

Bridgeway Acres Waste to Energy WTP, St. Petersburg, FL, United States 2012, 9,462 m³/d RO

Improvement and Expansion

Kinmen Desalination Plant Improvement and Expansion, Kinmen, Taiwan, 4,000 m³/d RO (Reverse Osmosis)

Ahrens Associate



www.ahrenscompanies.com

SELECTED REFERENCES

Contractor

Riverhead WWTP - Upgrade, New York, United States 2014, 5,299 m³/d MBR, UV

Alden Research Laboratory, LLC (A Verdantas Company)



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SELECTED REFERENCES

Engineering Consultant

Claude "Bud" Lewis Carlsbad Desalination Plant, Carlsbad, California, United States 2022, 190,000 m³/d MD

Environmental Consultant

WaterReuse Research Foundation, VA, United States, Other / Unknown

Research and Modelling

Poseidon Water Huntington Beach Desalination Plant, Huntington Beach, California, United States 2021, 189,250 m³/d RO

U.S.A., CA, United States 2015, 9,463 m³/d Other / Unknown

SCWD2 Regional Seawater Desalination Project, CA, United States 2015, 9,463 m³/d RO

Carlsbad Desalination Plant, Carlsbad, CA, United States 2014, 189,270 m³/d RO

Proposed Bay Area Regional Desalination Plant, CA, United States, 75,708 m³/d Other / Unknown

Archer Western Contractors



www.walshgroup.com

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Prime Contractor

Wichita Falls River Road IPR, Wichita Falls, Texas, United States 2016, 60,560 m³/d RO

Snappfinger WWTP - Upgrade Phase 2, Dekalb County, Georgia, United States 2015, 204,390 m³/d MBR

Temecula Valley Regional WRF - Expansion, California, United States 2015, 18,925 m³/d MBR

Auburn Constructors



www.auburnconstructors.com

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Prime Contractor

San Luis Obispo County, Los Osos Wastewater Project, San Luis Obispo, California, United States 2014, 4,542 m³/d

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Basic Design, Tender Specifications and Bid Evaluation

Shoabih-5, Shoabih, Saudi Arabia 2019, 600,000 m³/d RO

Shuqaiq-4, Shuqaiq, Saudi Arabia 2019, 400,000 m³/d RO

Design Engineer

Masirah, Oman 2019, 10,000 m³/d RO

Agadir, Morocco 2018, 100,000 m³/d RO

Marina East Desalination Plant, Singapore 2017, 136,380 m³/d RO

Djibouti, Republic of Djibouti 2017, 22,500 m³/d RO

Doha, Kuwait 2016, 227,300 m³/d RO

Barka IV, Oman 2015, 281,000 m³/d RO

Dakhla, Morocco 2015, 12,000 m³/d RO

Al Ghubrah, Oman 2012, 190,932 m³/d RO

Detailed Design

Jubail-II, Jubail, Saudi Arabia 2019, 400,000 m³/d RO

Engineering Consultant

La Estrella, Barcelona, Spain 2022, 86,400 m³/d RO
 Replacement of Shoaiba-2, Shoaiba, Saudi Arabia 2021, 545,000 m³/d RO
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 Campo de Dalías, Almería, Spain 2021, 117,000 m³/d RO
 Adeje-Arona, Adeje - Arona, Tenerife, Canary Islands, Spain 2020, 60,000 m³/d RO
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 Replacement of Shoaiba-I, Shoaiba, Saudi Arabia 2018, 600,000 m³/d RO
 Al Khobar-3 RO plant, Al Khobar, Saudi Arabia 2018, 600,000 m³/d RO
 Replacement of Shuqaiq-I, Shuqaiq, Saudi Arabia 2018, 400,000 m³/d RO
 Satellite plants, Along the Red Sea Coast, Saudi Arabia 2017, 51,000 m³/d RO
 Lima Sur, Lima, Peru 2015, 35,000 m³/d RO

Owner's Engineer

Laâyoune, Western Sahara, Morocco 2017, 26,000 m³/d RO

Technical Advisor

Duqm, Oman 2018, 40,000 m³/d RO
 Khasab, Oman, 16,000 m³/d RO
 Rabigh-3, Saudi Arabia 2018, 600,000 m³/d RO
 Salalah, Oman 2017, 120,000 m³/d RO
 Salalah, Oman 2015, 113,500 m³/d RO
 Sharqiyah, Oman 2015, 80,000 m³/d RO
 Qurayyat, Oman 2013, 200,000 m³/d RO

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SELECTED REFERENCES

Intake, Outfall and Pumping Station Construction

Hamriyah Power and Desalination Station, Sharjah, United Arab Emirates, 420,000 m³/d RO

Prime Contractor

Al Sajaa TDF and Sewage Treatment Plant, Sharjah, Al Sajaa Industrial Area, United Arab Emirates 2018, 11 million m³/yr Other / Unknown
 SAFI Water Reuse Station 2, Ajman, Al Jurf industrial Area, United Arab Emirates 2018, 3,000 m³/d RO

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Construction Management

Pure Water San Diego, San Diego, California, United States, 30 MGD RO
 Sembcorp NEWater Plant (SNP), Changi, Singapore 2015, 228,000 m³/d RO
 Butler Drive Water Reclamation Facility, Peoria, AZ, United States, 49,205 m³/d Other / Unknown
 Silicon Valley Advanced Water Purification Center (SVAWPC), Santa Clara, CA, United States, 30,000 m³/d RO
 Shuaibah IWPP, Saudi Arabia, 230.0 MGD RO
 Orange County Water District (GWRS Groundwater Replenishment), Irvine, California, United States, 100.0 MGD RO
 Shuqaiq IWPP, Saudi Arabia, 55.0 MGD RO
 Copiapo Valley Mines Project, Chile, 43.0 MGD Other / Unknown
 Shuibah Phase III- SWRO Extension Project, Saudi Arabia, 40.0 MGD RO
 El Abra Seawater Desalination Plant Feasibility, Chile, 38.0 MGD RO
 Long Beach Seawater Desalination Facility, Long Beach, California, United States, 10.0 MGD RO
 Nevada WTP Improvements, Missouri, United States, 1.4 MGD RO
 Anuvia Plant Nutrients: Plant Assessment and Process Optimization, Zellwood, Florida, United States, RO
 New Electrodialysis Technology to Reduce Energy Required for Salinity Management, California, United States, ED
 Old Ford, London, United Kingdom, MBR

Consultant

Paso Robles WWTP - Tertiary treatment, Paso Robles, CA, United States 2017, 18,546 m³/d UV

Design

Advanced Water Purification System, Palo Alto, California, United States 2021, 2.25 MGD RO
 Tseung Kwan O Desalination Plant, Hong Kong, China 2019, 36 MGD RO
 Groundwater Replenishment System Final Expansion, Fountain Valley, California, United States 2019, 30 MGD RO
 Perris II Desalination Plant, Perris, California, United States 2019, 5.4 MGD RO
 Membrane Filtration Reverse Osmosis (MFRO) Facility for Agriculture, Escondido, California, United States 2019, 2.5 MGD RO
 Jurong Island Desalination Plant, Singapore 2017, 36 MGD RO

Escondida Water Supply Expansion, Antofagasta, Chile 2017, 19 MGD RO

Escondida Water Supply, Antofagasta, Chile 2013, 57 MGD RO

Groundwater Replenishment System Initial Expansion, Fountain Valley, California, United States 2012, 30 MGD RO

Victoria Desalination Project, Wonthaggi, Australia, 109.0 MGD RO

Radomiro Tomic Copper Mine, Desalination Water Supply, Tocopilla, Chile, 57.0 MGD RO

Jurong Island Desalination Plant, Singapore, 36.0 MGD RO

Tseung Kwan O Desalination Plant, Hong Kong, 35.6 MGD RO

Az Zabirah Aluminum Project, Ras as Zour, Saudi Arabia, 20.0 MGD RO

Spence Growth Option, Mejillones, Chile, 18.0 MGD RO

Spence Hypogene Project, Santiago, Chile, 18.0 MGD RO

Nueva Union Desalination Project, Huasco, Chile, 16.5 MGD RO

Cave Creek Water Reclamation Plant - Advanced Water Purification Facility, Phoenix, Arizona, United States, 12.5 MGD RO

Brackish Groundwater Desalination Program, San Antonio, Texas, United States, 12.0 MGD RO

Silicon Valley Advanced Water Purification Centre, San Jose, California, United States, 6.0 MGD RO

Dublin (DSRSD), California, United States, 3.0 MGD RO

Sumitomo Consortium, Central Java, Indonesia, 1.58 MGD RO

Middle Area Desalination Plant, Deir Al Balah, West Bank, Palestine, 1.0 MGD RO

Escondida Water Supply, Antofagasta, Chile, 57 MGD RO

Livermore Advanced Reclamation Demonstration, California, United States, 1.0 MGD RO

Middle Area Desalination Plant, Gaza, Gaza, Palestine, Palestine, 1 MGD RO

Tuas I, Singapore, 36 MGD RO

Escondida Water Supply Expansion, Antofagasta, Chile, 19 MGD RO

Fargo Membrane WTP, Fargo, North Dakota, United States, 16 MGD RO

Geneva RO Water Treatment Plant, Geneva, Illinois, United States, 8 MGD RO

Oxnard G.R.E.A.T. Desalination Facility, Oxnard, California, United States, 7.5 MGD RO

RO Treatment Facility, O'Fallon, Missouri, United States, 6 MGD RO

Richmond Advanced Recycling Expansion (RARE), Oakland, California, United States, 4 MGD RO

Franklin County Water Treatment Plant, Franklin County, Alabama, United States, 3 MGD RO

Advanced Water Purification System, Palo Alto, California, United States, 2.25 MGD RO

RO Treatment Facility, Hays, Kansas, United States, 2 MGD RO

Carlsbad Water Recycling Facility, Carlsbad, California, United States, 1 MGD RO

Design and Build

Chanticleer Advanced Water Purification Facility, Soquel Creek, California, United States 2020, 3.3 MGD RO

Groundwater Replenishment System (GWRS) Final Expansion, Fountain Valley, California, United States 2019, 30 MGD RO

Morro Bay Advanced Water Treatment Plant, California, United States 2019, 1.0 MGD RO

Groundwater Replenishment System (GWRS) Initial Expansion, Fountain Valley, California, United States 2012, 30 MGD RO

Escondida Water Supply Project, Antofagasta, Chile, 57.0 MGD RO

Escondida Water Supply Expansion Project, Antofagasta, Chile, 19.0 MGD RO

Fargo Surface Water Treatment Plant, North Dakota, United States, 16.0 MGD RO

Charnock Well Field Restoration Project, Santa Monica, California, United States, 10.0 MGD RO

Dunedin WTP Improvements, Florida, United States, 7.0 MGD RO

Richmond Advanced Recycling Expansion (RARE), California, United States, 5.0 MGD RO

Potable Water Plant Modernization, US Navy, Diego Garcia Island, UK Overseas Territory in Indian Ocean, United Kingdom, 1.9 MGD RO

Soquel Pure Water Plant, Soquel Creek, California, United States, 1.0 MGD RO

JEA Advanced Water Treatment Plant, Jacksonville, Florida, United States, 1.0 MGD RO

Beenyup Ground Water Replenishment Trial, Perth, Australia, 1.0 MGD RO

Bundamba Advanced Water Treatment Plant, Brisbane, Australia, 17 MGD RO

Gresik desalination plant, Indonesia, 9 MGD RO

Chanticleer Advanced Water Purification Facility, Soquel Creek, California, United States, 3.3 MGD RO

Diego Garcia Water Treatment Plant, Diego Garcia, 1.9 MGD RO

H2.o Water facility, Jacksonville, Florida, United States, 1 MGD RO

Lender's Engineer

Carlsbad SWRO, California, United States, 50.0 MGD RO

Al Ghubrah Independent Sea Water Desalination Project, Oman, 50.0 MGD RO

Huntington Beach, CA (SWRO), California, United States, 50.0 MGD RO

Owner's Engineer

Jeddah Seawater Reverse Osmosis Desalination Plant, Jeddah, United Arab Emirates 2017, 100 MGD RO

Claude "Bud" Lewis Carlsbad Desalination Plant, Carlsbad, California, United States 2012, 50 MGD RO

Tuas II (SWRO), Singapore, 84.0 MGD RO

Changi 2 NE Water Project, Singapore, 60.0 MGD RO

Changi NE Water Reuse Project, Singapore, 60.0 MGD RO

Marina East Seawater Desalination Plant, Singapore, 36.0 MGD RO

Salalah Independent Water and Power Project, Oman, 18.0 MGD RO

Jeddah Seawater Reverse Osmosis Desalination Plant, Jeddah, Saudi Arabia, 100 MGD RO

Claude "Bud" Lewis Carlsbad Desalination Plant, Carlsbad, California, United States, 50 MGD RO

Zara Ma'in Water Project, Amman, Jordan, 34 MGD RO

Tampa Bay Seawater Desalination Facility, Tampa Bay, Florida, United States, 25 MGD RO

Program Manager

San Antonio, TX, United States, 45,420 m³/d RO

Brown & Caldwell



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Design

Arcadia Water Treatment Plant (expansion), Santa Monica, California, Southern California, United States 2023, 13 MGD RO

North City Pure Water Facility, San Diego, California, Southern California, United States 2021, 34 MGD

Hyperion AWWP, Los Angeles, California, Southern California, United States 2021, 1.5 MGD MBR

Design and Construction Management

MR/RO Facility, Escondido, California, Southern California, United States 2019, 4 MGD RO

Owner's Advisor

Chanticleer Advanced Water Purification Facility, Aptos, California, Central Coast, United States 2021, 1.3 MGD

BRW Construction Group



www.brwconstruction.com

SELECTED REFERENCES

Prime Contractor

Bacon Park WWTP, Savannah, GA, United States 2014, 3,785 m³/d MBR

Canadian Environmental Alternatives Ltd.



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SELECTED REFERENCES

Consultant: Process and Controls

Gwangyang SWRO, Gwangyang, South Korea 2012, 30,200 m³/d RO

Caribbean Water Treatment Ltd.



Antigua & Barbuda

(268) 462 6565

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www.cwt.ag

SELECTED REFERENCES

Installation and Commissioning

Mill Reef Club Antigua, Half Moon Bay, Antigua and Barbuda 2016, 189 m³/d SWRO with PX

South Caicos, Turks and Caicos Islands 2016, 189 m³/d SWRO with ERT

Hodges Bay Resort Antigua, Hodges Bay, Antigua and Barbuda 2016, 133 m³/d SWRO with PX

Carollo Engineers, Inc.



United States of America

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www.carollo.com

SELECTED REFERENCES

Engineering Consultant

Yucca Valley Water Reclamation Project, CA, United States 2017, 3,785 m³/d MBR

Altamonte Springs reuse pilot, Altamonte Springs, FL, United States 2017, 109 m³/d UF+GAC+UV

CDM Smith



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SELECTED REFERENCES

Construction Management

Escondida Water Supply Expansion, Antofagasta, Chile 2018, 71,971 m³/d RO

Consultant

Phase III - Study and alternatives feasibility design Santiago, Chile 2018, 917,568 m³/d

Design

Norte 550 Desalination Plant, Chile 2018, 47,520 m³/d

Desalination Plant, Chile 2016, 17,280 m³/d

San Andrés Desalination Plant, Colombia 2015, 4,320 m³/d

Evaluation and Consulting

Desalination Plant, Peru 2019, 41,472 m³/d Other / Unknown

Owner's Engineer

Aqaba Desalination Plant of 6,340 lps, Aqaba, Jordan 2019, 821,917 m³/d RO

Prime Contractor

P-192, Twentynine Palms, California, United States 2019, 11,355 m³/d RO

El Rawda, Egypt 2019, 500 m³/d RO

Aqaba Desalination Plant, Aqaba, Jordan 2019, RO

Brunswick County RO Facility, Brunswick County, North Carolina, United States 2018, 155,185 m³/d RO

Expansion of the North Desalination Plant (La Chimba), Chile 2017, 8,640 m³/d

California American Water Seawater Desalination Plant, Monterey, California, United States 2016, 26,495 m³/d

Arbennie Pritchett WRF - Expansion, Fort Walton Beach, FL, United States 2015, 45,424 m³/d UV

Arbennie Pritchett WRF - Expansion, Fort Walton Beach, FL, United States 2015, 18,925 m³/d UV

Carlsbad Municipal Water District WRF - Phase 3, Carlsbad, CA, United States 2015, 11,360 m³/d RO

City of Hays WWTP - Upgrade, Hays, KS, United States 2015, 9,462 m³/d MBR

Spence Growth Option, Chile 2014, 86,400 m³/d RO

Fort Irwin Water Works WTP, Fort Irwin, California, United States 2014, 22,723 m³/d

Dania Beach WTP Groundwater Desalination Facility, Dania Beach, Florida, United States 2014, 7,570 m³/d RO

Groundwater Recharge Potable Reuse Facility for Emergency Water Supply, Cambria, California, United States 2013, 2,180 m³/d RO

Groundwater Desalination Facility P-113, Camp Pendleton, California, United States 2012, 37,850 m³/d RO

LPRO Groundwater Desalination Facility, Western Springs, Illinois, United States, 11,544 m³/d RO

LPRO WTP Expansion for West WTP, Deerfield Beach, Florida, United States, 11,355 m³/d RO

Water Recovery Facility, Sheridan, Wyoming, United States, 5,450 m³/d RO

Beach Well Coastal Desalination Facility, Sand City, California, United States, 1,135 m³/d RO

Study and Design

Drinking water resilience study and prefeasibility design Rancagua, Chile 2019, 30,153 m³/d Other / Unknown

Drinking water resilience study and prefeasibility design for Iloca, Chile 2019, 2,592 m³/d Other / Unknown

Study and alternatives feasibility design for Santiago, Phase III, Chile 2018

Study and Support Services

Desalination Plant, Chile 2019, 142,560 m³/d Other / Unknown

Ore Access 1 (OA1) Desalination Plant, Iquique, Chile 2019, 13,997 m³/d RO

Engineering of Permits and Marine Works for Desalination Plant, Chile 2018, 136,080 m³/d

Antofagasta Desalination Plant, Chile 2018, 54,172 m³/d

Ore Access One, Chile 2017, 13,996 m³/d Other / Unknown

AES Ventanas, Chile, 51,840 m³/d RO

Technical Advisor

Codelco Water Supply, Chile 2018, 168,998 m³/d RO

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SELECTED REFERENCES

Process Design and Equipment Supplier: Ceramic UF Membranes

Turbah, Hail, Saudi Arabia 2021, 5,200 m³/d Other / Unknown

Agfar, Hail, Saudi Arabia 2021, 5,300 m³/d Other / Unknown

Hangzhou Coal Mine, Hangzhou, China 2020, 7,920 m³/d Other / Unknown

Polokwane 2, South Africa 2020, 3,600 m³/d UF

VPF, Thailand 2020, 3,000 m³/d UF

CPF, Thailand 2020, 1,640 m³/d UF

Mnasheer, Jordan 2020, 1,000 m³/d UF

Polokwane, South Africa 2019, 4,800 m³/d Other / Unknown

Lactasoy, Thailand 2019, 2,400 m³/d UF

Watreat Lac-1, Prachinburi, Thailand 2019, 2,400 m³/d Other / Unknown

Al Saawy WTP, Saudi Arabia 2019, 1,200 m³/d UF

Baireen, Jordan 2018, 3,120 m³/d UF

Polokwane, South Africa 2018, 1,680 m³/d UF

Mashtal Faisal, Jordan 2017, 13,500 m³/d UF

Humaimah, Saudi Arabia 2015, 143,000 m³/d UF

Humaimah 2, Hail, Saudi Arabia 2015, 55,000 m³/d RO

CeraMem



www.alsys-group.com/en/group/global-locations/alsys-usa-ceramem

SELECTED REFERENCES

Equipment Supplier: Ceramic Membranes and Engineering Services

India 2013, 3,715 m³/d UF

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SELECTED REFERENCES

Civil Contractor

Beenyup Groundwater Replenishment Programme - Phase 2, Perth, WA, Australia 2017, 38,356 m³/d RO

Consulting Engineering Co.



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[Previously Dr. M. H. Ali El-Saie Consulting Engineers]

Dr. M. H. Ali El-Saie Consulting Engineers was established 1964 (Kuwait), 1970 (Abu Dhabi), 1975 (Oman), 1983 (Egypt) by Dr. M. H. Ali El-Saie, the Owner and Managing Director. Dr. El-Saie is one of the world's leading experts and pioneers in the field of dual-purpose power and desalination plants.

Fields:

- Power Generation (SC, CC) (steam, gas and diesel)
- Water desalination plants of different size, capacities and types (MSF, RO, VC, ME)
- Combined cycle power, desalination plants and dual-purpose plants including gas turbine with WHR boilers with desalination plant extraction, condensing steam turbine with desalination plants, back pressure turbine with desalination plants, cooling water intake of different types and capacities up to 750 000/cm/hr, and outfalls especially from and to the sea

- Water distribution and transmission
- Water pumping station
- Electrical substation, distribution and transmission systems
- Chemical plants such as salt, chlorine caustic soda and hydrochloric acid plants
- Civil, I&C (SCADA, DCS), fuel supply and stores.

Services include feasibility studies, forecasts, network flow and stability, engineering, design, preparation of tender documents, contract management and major tests at works, supervision of construction and commissioning of the plants with guarantee period services.

SELECTED REFERENCES

Concrete Structures Repair

Sewage Treatment Plant, Port Fouad, Egypt 2016, 40,000 m³/d

Consultancy Services for Hydrogeological Mapping, Geophysics, Well drilling and Testing

UAE Contract No. PCD-CS-0387-EQS-WDS-5113040, United Arab Emirates, 7,500,000 m³/d Other / Unknown

Consultant

Replacement and Renovation Works of Port Said Sewage treatment plant-Om Khalaf, Port Said, Port Said South - Om Khalaf Village, Egypt 2023, 600 m³/d Other / Unknown

MATS (Multipurpose Application by Thermodynamic Solar), Borg El Arab, Alexandria, Egypt 2023, 250 m³/d MED

EPC WORKS FOR INSTALLATION OF RO UNITS AT DIFFERENT LOCATIONS, Abu Dhabi, Abu Dhabi city, United Arab Emirates 2022, 0.25 MIGD RO

Culverts Concrete Slab Repair

Ghubrah, Oman 2012, 27,360 m³/d MSF

Engineering Consultant

National Organization For Potable Water And Sanitary Drainage Plant, Port Said, Port Said West, Egypt 2021, 20,000 m³/d RO

Sir Bani Yas Island, Abu Dhabi, United Arab Emirates 2020, 45,000 m³/d RO

Desk study of wastewater evaporation ponds at new capital power plant, Egypt 2020, 800 m³/d RO

New Assuit Combined Cycle Engineering Works for Wastewater Discharge, Egypt 2019, 20,000 m³/d RO

Technical Evaluation of Al Yosr Plant and Preparing Tender for Operation and Maintenance, Hurghada, Egypt 2018, 80,000 m³/d RO

Assuit West CC Power Plant – wastewater study problem, Egypt 2018, 6,000 m³/d Other / Unknown

Reef Oasis SWRO, Egypt 2018, 1,000 m³/d RO

Upgrade of Um Al Zamool R.O. plant, United Arab Emirates 2018, 1,000 m³/d RO

Port Said phase I, Egypt 2017, 40,000 m³/d RO

Repair Treatment of Cracked Concrete Structures (Intake Channel and Surge Structure), Port Said East, Egypt 2016, 200,000 m³/d

Preliminary Design and Bill of Quantities, Al Ain El-Sokhna, Integrated Water and Power Plant (IWPP), Al Ain El Sokhna, Egypt 2016, 150,000 m³/d RO

Concrete Structures Repair at Sewage Treatment Plant, Port Fouad, Egypt 2016, 40,000 m³/d
 Additional RO Unit Utilizing BWRO reject, Madinaty, Egypt 2016, 2,000 m³/d RO
 Additional RO Unit in Madinaty Desalination Plant, Cairo, Egypt 2016, 1,600 m³/d RO
 Upgrade of Um Al Zamool RO plant, United Arab Emirates 2018, Desalination Plant, Hurgada, Egypt 2015, 80,000 m³/d RO
 Cairo Festival City Project Desalination Plant, New Cairo, Egypt 2015, 5,000 m³/d RO
 Sewage Treatment, Madinaty, Egypt 2015, 3,000 m³/d RO
 Desalination of ground water, Madinaty, Egypt 2014, 10,000 m³/d RO
 Masirah Seawater intake plant , Oman 2013, 15,000 m³/d RO
 Halaniyat RO, Oman 2013, 300 m³/d RO
 Taweelah (B), United Arab Emirates 2012, 450,000 m³/d MSF
 Desalination Plant, Hurgada, Egypt 2012, 40,000 m³/d RO
 Sur RO Plant Bypass 800mm Pipe, Sur, Oman 2013, 42,000 m³/d RO
 Culverts Concrete Slab Repair , Ghubrah, Oman 2012, 27,360 m³/d MSF
 Ghubrah Sea Water Line PH-3 intake to Ph-2, Oman 2012, 81 m³/d MSF
 Main Recycled Water System in Al Dhafra Region (Abu Dhabi mainland and Adjacent Island), Abu Dhabi and adjacent island, Al Dhafra, United Arab Emirates, 7,500,000 m³/d Other / Unknown
 Consultancy services for Hydrogeological mapping, Geophysics, Well drilling and testing of the United Arab Emirates contract no. PCD-CS-0387-EQS-WDS-5113040, United Arab Emirates, 7,500,000 m³/d Other / Unknown

Preliminary Design and Bill of Quantities

Al Ain El-Sokhna Integrated Water and Power Plant (IWPP), Al Ain El Sokhna, Egypt 2016, 150,000 m³/d RO
 Sewage Treatment Plant, Port Fouad, Egypt 2016, 40,000 m³/d

Coway Co., Ltd.



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www.coway.co.kr

SELECTED REFERENCES

EP Contractor

Samsung Onyang Pretreatment Demineralization System, South Korea 2012, 9,800 m³/d MF/UF
 Samsung Electronics Industrial Water System, South Korea 2012, 5,000 m³/d MF/UF

Cushman Contracting Corp.



www.cushmancontracting.com

SELECTED REFERENCES

Prime Contractor

Paso Robles WWTP - Tertiary treatment, CA, United States 2017, 18,546 m³/d UV

Deltares



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Bas.vanVossen@deltares.nl

www.deltares.nl/io

SELECTED REFERENCES

Hydraulic Model Testing and Hydraulic Studies

Ras Abu Fontas A2, Doha, Qatar 2013, 163,656 m³/d MSF
 Yanbu 3, Saudi Arabia 2012, 550,000 m³/d MSF

Marine Research and Consultancy

Jafza Utility project, Dubai, United Arab Emirates 2012, RO

Pumping Station Tests and Recirculation

Yanbu 3 - IWPP, Saudi Arabia 2012, 550,000 m³/d MSF

Department of Environment, Land, and Planning



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www.delwp.vic.gov.au/water

www.depi.vic.gov.au/desalination-project

SELECTED REFERENCES

Contract Manager on behalf of State Government of Victoria

Victoria Desalination Project, Wonthaggi, Victoria, Australia 2012, 440,000 m³/d RO

Ecoagua Ingenieros



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www.ecoagua.com

SELECTED REFERENCES

Consultant

Jeddah IV Seawater Reverse Osmosis Desalination Plant, Jeddah, Saudi Arabia 2016, 404,000 m³/d SWRO

Barka 4 Seawater Reverse Osmosis Desalination Plant, Barka, Oman 2015, 281,000 m³/d SWRO

Sohar 3 Seawater Reverse Osmosis Desalination Plant, Sohar, Oman 2015, 250,750 m³/d SWRO

Qurayyat Seawater Reverse Osmosis Desalination Plant, Qurayyat, Oman 2014, 200,000 m³/d SWRO

Ras Laffan Seawater Reverse Osmosis Desalination Plant, Ras Laffan, Qatar 2014, 159,100 m³/d SWRO

La Chimba Expansion Seawater Reverse Osmosis Desalination Plant, Antofagasta, Chile 2014, 25,920 m³/d SWRO

Basra Brackish Water Reverse Osmosis Desalination Plant, Basra, Iraq 2013, 199,000 m³/d BWRO

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SELECTED REFERENCES

Engineering Consultant

RAF A3, Al Wakrah, Ras Abu Fontas, Qatar 2015, 163,656 m³/d RO
RO II Sohar Industrial Port Area, Oman 2014, 35 MLD RO

Grainfield power and water plant Facility D, Qatar 2012, 272,760 m³/d RO

Extension of PWPA for RAFA power and water plant, Qatar 2012, 250,030 m³/d MSF

Industrial Desalinated Water Facility, Qatar 2012, 204,570 m³/d RO

Extension of potable water production, Qatar 2012, 181,840 m³/d RO/MSF/MED

Ras Abu Fontas A, Qatar, 315,000 m³/d MSF

Ras Abu Fontas C, Qatar, 120,000 m³/d MSF

Estruagua



www.estruagua.com/en

SELECTED REFERENCES

Seawater Intake

TUAS 3, Singapore, 57,246 m³/d RO

Fichtner GmbH



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www.fichtner.de

SELECTED REFERENCES

Consultant

Sohar IWP, Sohar, Oman 2016, 250,000 m³/d RO

Barka IWP, Barka, Oman 2015, 281,000 m³/d RO

Saghi Kosar (SAKO), Bandar Abbas, Hormozgan Province, Iran 2015, 100,000 m³/d RO

Mamelles RO Plant, Senegal 2015, 100,000 m³/d RO

Sur Extension, Sur, Oman 2015, 42,922 m³/d RO

SDC Extension, Sur, Oman 2015, 10.0 MIGD RO

West Coast, Saudi Arabia 2014, 10,000 m³/d RO

Olympic Dam Expansion Project, BHP, Adelaide, SA, Australia 2013, 169,000 m³/d RO

Mile 6 IWP, Windhoek, Namibia 2013, 60,000 m³/d RO

MENA Study Phase 2, 170,000 m³/d RO

Bandar Abbas, Iran, 100,000 m³/d RO

Khafji, Saudi Arabia, 30,000 m³/d RO

MAA Oil Refinery, Safat, Kuwait, 4 MIGD Other / Unknown

Lender's Technical Advisor

CWS Codelco, Antofagasta, Chile 2020, 72,576 m³/d RO

Sur IWP, Sur, Oman, 83,648 m³/d RO

Cobra - Technical Advisor für 2 Entsalzungsanlagen, Oman, Other / Unknown

Owner's Engineer

Al-Jubail SWRO Desalination Plant Phase 2, Al Jubail, Saudi Arabia 2020, 400,000 m³/d RO

Offshore floating desalination barges, Janbu, Saudi Arabia 2020, 150,000 m³/d RO

Khobar 2 RO, Al Khobar, Saudi Arabia 2019, 630,000 m³/d RO

RAF A3, Doha, Qatar 2015, 163,330 m³/d RO

Al Khafji RO Desalination Plant, Al Khafji, Saudi Arabia 2014, 30,000 m³/d RO

Az Zour North I WPP, Kuwait 2013, 486,422 m³/d MED
 RAF A2, Qatar 2013, 163,656 m³/d RO
 Ras Abu Fontas 2, Doha, United Arab Emirates 2013, 40,914 m³/d
 Seychelles 2012, 13,050 m³/d RO
 Shuweihat 2, Abu Dhabi, United Arab Emirates 2011, 454,200
 m³/d MSF
 Ras Az Zawr SWCC, Saudi Arabia 2010, 1,025,000 m³/d Other /
 Unknown

Technical Advisor

M2 RO IWP, Mirfa, United Arab Emirates 2023, 120 MIGD RO
 Shuweihat 4 IWP, Abu Dhabi, Shuweihat, United Arab Emirates
 2022, 70 MIGD RO
 Barka 5, Barka, Oman 2021, 100,000 m³/d RO
 Ghubrah 3, Ghubrah, Oman 2020, 300,000 m³/d RO
 Rabigh Phase 3 IWPP, Saudi Arabia 2019, 600,000 m³/d RO
 Al Ghubrah IWP, Muscat, Oman 2014, 191,000 m³/d RO
 Gaza Central Desalination Plant, Gaza, Palestine 2014, 160,000
 m³/d RO
 Yanbu 3, Yanbu, Saudi Arabia 2013, 550,000 m³/d Other /
 Unknown
 Sohar IWP, Suwaiq, Oman 2013, 225,000 m³/d RO
 Jorf Lasfar, OCP, Morocco 2013, 150,000 m³/d RO
 Quebrada Blanca Phase 2, Quebrada, Chile 2013, 110,000 m³/d RO
 Salalah IWPP, OPWP, Oman 2012, 70,000 m³/d RO
 Seychelles 2012, 13,050 m³/d RO
 Maqtaa - equipment due diligence, Algeria 2011, 500,000 m³/d RO
 Victoria Desalination Plant (IWP), Melbourne, VIC, Australia 2011,
 450,000 m³/d RO
 Ras Laffan C IWPP, Doha, Qatar 2011, 280,000 m³/d MSF
 Barka I Expansion, Oman 2011, 45,460 m³/d RO
 Jebel Ali Power and Desalination Station M, Dubai, United Arab
 Emirates 2010, 636,440 m³/d MSF
 Fujairah F2 IWPP, ADWEA, United Arab Emirates 2010, 600,000
 m³/d MED
 Yanbu III SWCC, Saudi Arabia 2010, 550,000 m³/d MSF
 Sydney Water Desalination Plant, NSW, Australia 2010, 250,000
 m³/d RO
 Shuqaiq IWPP Phase II, WEC, Saudi Arabia 2010, 212,000 m³/d
 RO

Technical Advisor for Plant Owner/ Operator

Barka 1, Phase 2, Oman, 56,825 m³/d RO

Technical Advisor for the Offtaker, IWP/P Tender

Jubail Phase 3 IWPP, Saudi Arabia, 340,000 m³/d RO
 Water 2021 IWP, Muscat, Oman, 325,000 m³/d Other / Unknown
 AL Hamriyah, Sharjah, United Arab Emirates, 250,000 m³/d RO
 Shuaibah RO Extension II, Saudi Arabia, 250,000 m³/d RO
 Salalah 2 IWPP, Oman, 45,460 m³/d Other / Unknown

Florida Design Contractors, Inc.



www.floridadesigncontractors.com

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Prime Contractor

Dayton Beach reuse pilot, Dayton Beach, Florida, United States
 2018, 757 m³/d RO

Ganden



www.ganden.com.au

SELECTED REFERENCES

Consultant for Desalination Feasibility Study

Rous County Council, Northern New South Wales, Australia,
 10,000 m³/d RO

**Design and Upgrade of the Process, Civil, Mechanical and
 Structural Design**

Cloncurry Sewage Treatment Plant, Cloncurry Shire Council,
 Queensland, Australia 2019, 1,500 m³/d

Engineering Consultant

San Andres Desalination Plant, San Andres, Colombia 2017, 4,500
 m³/d RO
 Lorim Point STP, Weipa, Queensland, Australia 2017, 250 m³/d UF
 Awonga Point STP, Weipa, Queensland, Australia 2015, 2,000
 m³/d UF
 Confidential, Brisbane, Queensland, Australia, 40 m³/d MBR

Principal Consultant

Mossman STP, Mossman, Douglas Shire Council, Queensland,
 Australia 2021, 1,730 m³/d Other / Unknown
 Mirani Water Recycling Facility, Mackay, Queensland, Australia,
 5,560 m³/d Other / Unknown
 Bonny Hills Sewage Treatment Plant, Bonny Hills, New South
 Wales, Australia, 2,984 m³/d Other / Unknown
 Wujal Wujal Sewage Treatment Plant, Wujal Wujal, Queensland,
 Australia, 2,025 m³/d MBR
 Grenfell Sewage Treatment Plant, Grenfell, New South Wales,
 Australia, 1,390 m³/d Other / Unknown
 Confidential, Sydney, New South Wales, Australia, 900 m³/d MBR
 Port Hinchinbrook Sewage Treatment Plant, Port Hinchinbrook
 (Oyster Point, Cardwell), Queensland, Australia, 756 m³/d Other /
 Unknown

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Engineering Consultant

South Orange County Desalination Project, Orange County, California, U.S.A., 5 MGD

Monterey Peninsula Water Supply Project, Monterey County, California, U.S.A., 4.8 MGD

City Of Oceanside Waste water Treatment Plant Injection System, San Diego County, California, U.S.A., 3 MGD

Chino Basin Desalter Authority - Chino Desalter II, Phase 3 (Vertical Wells), Chino, California, United States 2016, 79,485 m³/d RO

Municipal Water District of Orange County (Slant Well Installation), Dana Point, California, United States 2016, 56,775 m³/d RO

California American Water (Slant Well Installation), Marina, California, United States 2016, 41,640 m³/d RO

City of Oceanside (Vertical Wells), Oceanside, California, United States 2016, 18,925 m³/d RO

California American Water (Slant Wells), Marina, California, United States 2014, 24,225 m³/d RO

San Diego County Water Authority (Vertical Wells), Camp Pendleton/Oceanside, California, United States 2013, 189,270 m³/d RO

Monterey County Water Resources Agency (Slant Wells), Monterey, California, United States 2013, 22,700 m³/d RO

GHD Group



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www.ghd.com.au

SELECTED REFERENCES

Consulting Engineer

Newman Water Treatment Plant, Newman, Western Australia, Australia 2015, 16,000 m³/d RO

Carlsbad Desalination Plant, Carlsbad, California, United States 2012, 189,250 m³/d RO

Owner's Engineer

Doheny Desalination Project, California, United States 2024, 5 MGD RO

Carlsbad Desalination Plant, Carlsbad, California, United States 2012, 189,250 m³/d RO

GKW Consult

www.gkw-consult.com

SELECTED REFERENCES

Consultant

Multiple desalination facilities, Tunisia, 32,500 m³/d

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SELECTED REFERENCES

Engineering Only

Confidential Client, Alberta, Canada 2018, 36 m³/d NF

NAIT - Research Membrane Pilot, Alberta, Canada 2018, 31 m³/d RO

H2Oil & Gas Ltd



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Engineering Consultant

Barka I Expansion Phase 2, Oman 2015, 56,832 m³/d RO

FPSO Cidade de Itajai, Brazil 2015, 15,000 m³/d NF

FRD Oprisenesti, Oprisenesti, Romania 2015, 1,920 m³/d

Mangala Processing Terminal SRP, Rajasthan, India 2014, 50,081 m³/d NF

Ichthys FPSO, Offshore, Australia 2013, 360 m³/d RO

Ichthys CPF, Offshore, Australia 2013, 206 m³/d RO

FEED Engineering

Angsi CEOR, Offshore, Malaysia 2012, 25,448 m³/d RO

Recommissioning

Chayvo OPF Expansion, Sakhalin Islands, Russia 2013, 25,440 m³/d

Mina Al Fahal, Muscat, Oman 2013, 720 m³/d

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SELECTED REFERENCES

RO Pilot Studies

San Angelo Texas, San Angelo, Texas, United States
 Seminole Tribe of Florida Brighton, Brighton, Florida, United States
 City of Grimes Iowa, Grimes, Iowa, United States
 City of Washington, Iowa, Washington, Iowa, United States
 El Paso Texas, El Paso, Texas, United States
 City of West Liberty, Iowa, West Liberty, Iowa, United States
 City of North Liberty, Iowa, North Liberty, Iowa, United States
 Lawrence Kansas, Lawrence, Kansas, United States
 Affordable Desalination Water Collaboration, Port Hueneme, California, United States
 US Filter for Tampa Bay Water, Tampa, Florida, United States
 Dow Filmtec Seawater Pilot, United States
 Collier County Pilot, Collier County, Florida, United States
 Grand Bahamas Industrial Application, Grand Bahamas, Bahamas

UF Pilot Studies

Marco Island Florida, Marco Island, Florida, United States
 City of Sarasota, Sarasota, Florida, United States
 Manatee County Florida, Manatee County, Florida, United States
 Alameda County Water District California, Alameda County, California, United States
 Monterey California, Monterey, California, United States
 Abilene Texas, Abilene, Texas, United States
 Clearwater Florida, Clearwater, Florida, United States
 Lawrence Kansas, Lawrence, Kansas, United States
 Fort Worth Texas, Fort Worth, Texas, United States

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www.hatch.com

SELECTED REFERENCES

Design Engineer

Port Stanvac, Adelaide, SA, Australia 2012, 273,800 m³/d RO

Engineering: Pipelines

Port Stanvac, Adelaide, SA, Australia 2012, 273,800 m³/d RO

EPCM

Copper mine, Confidential client, Chile 2013, 63,900 m³/d RO
 Copper mine, Confidential client, Chile 2013, 29,800 m³/d RO
 Candelaria, Punta Padrones, Region III, Chile 2012, 43,200 m³/d RO

Technical Advisor

United Arab Emirates, 110,000 m³/d RO
 Carlsbad, San Diego, United States, 189,250 m³/d RO

Hitachi Zosen Corporation



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SELECTED REFERENCES

Prime Contractor

SAFCOL, Elizabeth, South Australia, Australia 2021, 300 m³/d RO
 Japan Rental, Japan 2019, 2,000 m³/d RO
 Glencore Clermont Coal Mine, Queensland, Australia 2019, 700 m³/d UF
 Roy Hill, Pilbara, Western Australia, Australia 2018, 20,000 m³/d RO
 ERA Ranger OBS Project, Ranger, Northern Territory, Australia 2018, 3,000 m³/d RO
 Kwinana Power Station, Kwinana, Western Australia, Australia 2018, 1,300 m³/d RO

HSL Constructor Pte Ltd



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Prime Contractor

Tuas III, Singapore 2015, 136,000 m³/d RO

Hyrec



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Owner's Engineer

Marvel Desalination And Salt Production Plant, Cilegon, Banten Province, Indonesia 2021, 24,000 m³/d RO

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Technical Advisor

AD RO Islands, Abu Dhabi, United Arab Emirates 2022, RO
Taweelah IWP, United Arab Emirates 2019, 909,000 m³/d RO
North Batinah IWP, Oman 2019, 150,000 m³/d RO
Dhofar Water IWP, Oman 2019, 150,000 m³/d RO
Barka V IWP, Oman 2019, 100,000 m³/d RO
Ghubrah III IWP, Oman 2019, 100,000 m³/d RO
Taweelah IWP SWRO, United Arab Emirates 2017, 909,000 m³/d RO
Shuqaiq III IWP, Saudi Arabia 2017, 100 MIGD RO
Yanbu IV IWP, Saudi Arabia 2017, 100 MIGD RO
Sharqiyah IWP, Oman 2016, 80,000 m³/d RO
Umm Al Quwain, United Arab Emirates 2016, 150 MIGD RO
SAKO Desalination & Power Plant, Iran 2014, 1,000,000 m³/d RO
South Dharan SWRO, Saudi Arabia 2014, 100,000 m³/d RO
Renewable Energy Pilot Plants, United Arab Emirates 2012, 1,500 m³/d RO
MIRFA IWPP, United Arab Emirates 2012, 30 MIGD RO

Consultant

Sanandaj WWTP Javeh Dam Inflow Water Quality Upgrade Iran 2015, 118,640 m³/d Other / Unknown
Sulaibiya Wastewater Treatment and Reclamation Plant Expansion, Kuwait 2014, 225,000 m³/d RO
Dharan Desalination Plant, Dhahran, Saudi Arabia 2014, 100,000 m³/d RO

South Dhahran WWTP, Saudi Arabia 2014, 70,000 m³/d Other / Unknown

Dharan Wastewater Reuse Plant, Dhahran, Saudi Arabia 2014, 70,000 m³/d Other / Unknown

Al Heet/Al Kharj Road WWTP - Phase 3, Riyadh, Saudi Arabia 2012, 200,000 m³/d Other / Unknown

Sadara IWP, Al Jubail, Saudi Arabia 2012, 178,500 m³/d RO

Detailed Design Engineering

Ghadeer 2 STP, Abu Dhabi, United Arab Emirates 2021, 12,000 m³/d

Engineering Services

Tasiast plant, Mauritania 2013, 75,000 m³/d Other / Unknown

Jubail RO Plant, Saudi Arabia 2012, 75,000 m³/d RO

Feasibility Study

Planta Desaladora Coquimbo, Coquimbo, Chile 2022, 100,000 m³/d RO

Namibia, Windhoek 2019, RO

Owner's Engineer

Shoaiiba 3 IWP, Shoaiiba, Saudi Arabia 2022, 600,000 m³/d RO

Jubail 3A, Jubail, Saudi Arabia 2021, 600,000 m³/d RO

Ghubrah III, Ghubrah, Oman 2021, 300,000 m³/d RO

Hong Kong, Honk Kong 2021, 137,000 m³/d RO

Seawater Desalination Project in Al- Basrah, Iraq 2019, 1,000,000 m³/d RO

Umm Al Quwain IWP, United Arab Emirates 2019, 606,000 m³/d Other / Unknown

Rabigh III IWP, Saudi Arabia 2019, 600,000 m³/d RO

Al Dur 2 IWPP, Bahrain 2019, 50 MIGD RO

Salalah IWP, Oman 2018, 120,000 m³/d RO

Shoaiabah III IWPP SWRO Expansion II, Saudi Arabia 2017, 250,000 m³/d RO

Sohar IWP, Oman 2017, 250,000 m³/d RO

Sadara SWRO Plant, Saudi Arabia 2012, 178,500 m³/d RO

Integrated Water Services



www.integrated-water.co.uk

SELECTED REFERENCES

Prime Contractor

Padre Dam Advanced Water Treatment Demonstation Project, California, United States 2014, 380 m³/d RO

Jacobs



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www.jacobs.com

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Design Engineer

- Changi NEWater Factory 3 (CNF3), Singapore 2021, 227,000 m³/d RO
- Tuas Water Reclamation Plant, Singapore 2021, 113,550 m³/d RO
- Chua Chu Kang Water Works plant upgrade, Singapore Public Utilities Board, Singapore 2019, 360,000 m³/d
- Confidential Industrial Client, Goodyear, Arizona, United States 2021, 7,000 m³/d RO
- Brandon Water Treatment Facility, Brandon, Manitoba, Canada 2020, 30,000 m³/d NF
- Chua Chu Kang Water Works Plant Upgrade, Singapore Public Utilities Board, Singapore 2019, 360,000 m³/d Other / Unknown
- Green Meadows Water Treatment Plant, Fort Myers, Florida, United States 2017, 28,390 m³/d RO
- Cherry Point WTP, North Carolina, United States 2017, 22,710 m³/d NF
- Reynolds Desalination Facility, Chula Vista, California, United States 2017, 20,000 RO
- NSID Nanofiltration Facility, North Springs, FL, United States 2016, 25,549 m³/d NF
- Sherman WTP, TX, United States 2015, 44,000 m³/d RO
- Lakeview WTP Phase II Expansion, Missasauga, Ontario, Canada 2014, 473,125 m³/d UF
- Marco Island North Water Treatment Plant, Marco Island, FL, United States 2013, 25,250 m³/d Other / Unknown
- Hadnot WTP, Camp Lejeune, NC, United States, 30,283 m³/d NF

Engineering Consultant

- Advanced Metering Infrastructure (AMI) Specialist for PUB Singapore's Smart Water Meter Programme Rollout, Singapore 2019, 1,627,727 m³/d
- Jorf Lasfar Seawater Desalination Plant, Morocco 2018, 130,000 m³/d RO
- Jurong Island Desalination Plant, Singapore 2017, 136,000 m³/d RO
- Tuas 3, Singapore 2015, 136,000 m³/d RO
- ACWA Power Barka, Oman 2015, 56,777 m³/d RO
- Twentynine Palms Water Treatment Plant, California, United States 2017, 11,350 m³/d RO
- Tuas 3 Desalination Plant, Singapore 2015, 136,000 m³/d RO
- Marina East Desalination Plant, Singapore 2015, 136,000 m³/d RO
- ACWA Power Barka Desalination Plant, Oman 2015, 56,777 m³/d RO
- MIRFA Independent Water and Power Project, Abu Dhabi, United Arab Emirates 2014, 136,000 m³/d RO
- National Water Company's Al-Saad Water Treatment Plant, Riyadh, Saudi Arabia 2013, 360,000 m³/d RO
- Gwinnett County NRW/Smart Cities AMI Pilot, GA, United States, 264,979 m³/d UF
- SWIFT Potable Reuse Groundwater Replenishment Project, VA, United States, 3,800 m³/d current, 380,000 m³/d planned

JF Shea



www.jfshea.com

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Kiewit Corporation



United States of America +1 (562) 946 1816

www.kiewit.com

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- Northwater Treatment Plant, Golden, Colorado, United States, 283,906 m³/d Unknown
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- F. Wayne WRC Contracts, Buford, Georgia, United States, 189,271 m³/d RO
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- Buckman WTP, Santa Fe, New Mexico, United States, 56,781 m³/d Unknown
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- Perris II Desalination Facility, California, United States, 20,441 m³/d RO
- Charles E. Meyer Desalination Facility Refit, Santa Barbara, California, United States, 11,356 m³/d RO
- Hillburn (formerly Western Ramapo) Advanced Wastewater Treatment, Hillburn, New York, United States, 5,678 m³/d RO
- Carson Advanced Water Treatment Facility - Pilot, California, United States, 3,785 m³/d RO

Construction and Testing

- South Bay Water Reclamation Plant, San Diego, United States, 56,775 m³/d RO

Design and Construction

- Carlsbad Desalination Plant, San Diego, United States, 189,250 m³/d RO
- Charles E Meyer Desalination Plant, Santa Barbara, United States, 11,355 m³/d RO

Lahmeyer International GmbH



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www.lahmeyer.com

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Engineering Consultant

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Kuwait City, Kuwait 2017, MED
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www.leed.net.au

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MNS Engineers, Inc.



www.mnsengineers.com

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Montgomery Watson Harza Inc (MWH)



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Rio Rancho reuse project, Rio Rancho, New Mexico, United States 2017, 5,678 m³/d MBR
Australia Pacific LNG Water Treatment Facility, Brisbane, Australia 2012, 80,000 m³/d RO

Mott MacDonald



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Consultant

RAF A2 Desalination Plant, Ras Abu Fontas, Qatar 2014, MSF
 Qurayyat IWP, Oman 2013, 200,024 m³/d RO
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 2013, 94,635 m³/d RO
 Ghubrah Independent Water Project, Muscat, Oman 2013, 42
 MIGD RO
 Hamma Desalination Plant, Algiers, Algeria 2012, 200,000 m³/d
 RO
 Carlsbad Desalination Plant, United States 2012, 196,841 m³/d RO
 Ghubrah IWP, Oman 2012, 190,932 m³/d RO
 Ras Abu Fontas Power and Desalination Plant, Doha, Qatar 2012,
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 Rabigh Independent Water Steam Power Producer II, Rabigh,
 Saudi Arabia 2012, 93,500 m³/d RO
 Barka I SWRO, Oman 2012, 45,450 m³/d RO
 Batinah temporary desalination plant, Sohar, Oman 2012, 20,000
 m³/d RO
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 Tanzania 2012, Other / Unknown
 Ras Al Zour, Saudi Arabia, 249,810 m³/d Other / Unknown
 Al Taweelah, Abu Dhabi, United Arab Emirates, 227,100 m³/d
 Other / Unknown
 Keppel Fel, Singapore, 136,260 m³/d RO
 Sharqiya IWP, Sur, Oman, 121,120 m³/d Other / Unknown
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 RO
 Rabigh, Saudi Arabia, 81,756 m³/d Other / Unknown
 Al Slam City SWRO Plant, United Arab Emirates, 75,700 m³/d RO
 Decosol, Spain, 56,775 m³/d Other / Unknown
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 Other / Unknown
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 Unknown
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 Barge mounted desalination plant, Limassol, Cyprus, 24,000 m³/d
 RO
 Dhekelia, Cyprus, 18,925 m³/d Other / Unknown
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Design and Engineering

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Feasibility Study

Cherokee Metro District Black Squirrel Reclamation Facility,
 Colorado, United States 2014, 6,057 m³/d UV

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Engineering Consultant

Ministry of Water & Agriculture, Djibouti, Republic of Djibouti
 2017, 22,500 m³/d RO
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Nomura Micro Science



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www.nomura.com

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Consultant

Xian, China 2012, 12,000 m³/d RO

OrangeBoat LLC



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www.orangeboatsupport.com

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Middle East, 216,000 m³/d RO
Southeast Asia, 300,000 m³/d RO

Consultant: Operation

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Australia 2009, 444,000 m³/d RO
Australia, 140,045 m³/d RO
Middle East, 910,000 m³/d RO
Europe, 189,250 m³/d RO
Australia, 136,260 m³/d Other/Unknown
USA, United States, 8,327 m³/d Other/Unknown
USA, United States, 7,570 m³/d Other/Unknown
Latin America, 40,878 m³/d RO
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Middle East, 11,355 m³/d RO
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Engineering Consultant

Qeshm Island, Hormozgan Province, Iran, 6,000 m³/d MSF
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Scinor Membrane Technology



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www.southernchampion.com

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Pooler MBR - Expansion, Pooler, Georgia, United States 2016, 3,027 m³/d MBR

Stantec



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Prime Consultant

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Subcontractor

Agia Paraskevi Desalination Plant Expansion - SWRO 5000CMD, Ag. Paraskevi, Santorini, Greece 2022, 5,000 m³/d RO

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The Institute of Seawater Desalination & Multipurpose Utilization, SOA (Tianjin)



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www.sdmu.com.cn

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Technology Provider

Hainan Sansha Yongxing Island desalination plant, Sansha, Hainan, China 2013, 1,000 m³/d RO

Typsa Group



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Owner's Engineer

Site supervision services for Shuaibah 3 IWP, Shuaibah, Saudi Arabia 2023, 600,000 m³/d RO

Site supervision services for Jubail 3A IWP, Jubail, Saudi Arabia 2022, 600,000 m³/d RO

Site supervision services for Jubail 3B IWP, Jubail, Saudi Arabia 2022, 570,000 m³/d RO

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Site supervision services for Shuaibah 3 Expansion II SWRO, Shuaibah, Saudi Arabia 2019, 250,000 m³/d RO

Al-Khafji desalination and photovoltaic power generation plant, Al-Khafji, Saudi Arabia 2018, 60,300 m³/d RO

Technical assistance and site supervision of the SWRO plant at Torrevieja (Alicante), Alicante, Com. Valenciana, Spain 2013, 240,000 m³/d RO

Engineering Consultant

Basic Design for Foix - Desalination Plant, Tarragona, Catalunya, Spain 2022, 400,000 m³/d RO

Basic Design for Tordera-2 Expansion - Desalination Plant, Tarragona, Catalunya, Spain 2022, 180,000 m³/d RO

Basic and Detailed Design for Chira-Soria Desalination Plant, Gran Canaria, Canaria Island, Spain 2022, 7,800 m³/d RO

Tender Design for Los Cabos Desalination Plant, Los Cabos, Baja California, Mexico 2021, 21,600 m³/d RO

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Tetra Tech, Inc.



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Engineering and Construction Services

Claude "Bud" Lewis Carlsbad Seawater Desalination Project, Carlsbad, California, United States 2012, 204,412 m³/d RO

San Antonio Desalination Plant: H2Oaks Center, Texas, United States, 45,425 m³/d RO

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 Detailed design of the RO racks of the SWRO desalination plant at TUAS (Singapore), Tuas / Singapore, Singapore 2016, 136,383 m³/d RO
 Al Khafji Desalination (Saudi Arabia), Al-Khafji, Saudi Arabia 2015, 1,440,000 m³/d RO
 Jorf Lasfar Desalination Plant, Morocco 2012, 75,800 m³/d RO
 Location study of the intake structure of the desalination Plant in Moncófa, Castellón, Com. Valenciana, Spain 2012, 50,000 m³/d RO
 External independent checking of the Environmental Documentation of the Desalination Plant in Moncófa (Castellón), Castellón, Com. Valenciana, Spain 2012, 50,000 m³/d RO
 Niksic Treatment (Montenegro), Niksic, Montenegro, 18,864 m³/d UV

Technical Advisor

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Environmental Advisor

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W.M. Lyles Co.



www.wmlylesco.com

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Yucca Valley Water Reclamation Project, California, United States 2017, 3,785 m³/d MBR
 Chino II Desalter Concentrate Reduction Facility, Chino Basin, California, United States 2013, 14,092 m³/d RO

Water & Wastewater Consulting Engineers Company



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SELECTED REFERENCES

Developer

Parkandabad 2 WWTP - Expansion, Mashhad, Khorasan-e Razavi Province, Iran 2015, 60,000 m³/d Tertiary

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Engineering Consultant

Sao Paulo, Brazil 2021, 396 m³/d RO
 Cali, Colombia 2021, 369 m³/d RO
 Flint, U.K. 2020, 400 m³/d RO

Welsbach Electric Corp



www.welsbachelectric.com

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www.westernsummit.com

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Kay Bailey Hutchison Desalination Plant, El Paso, United States, 102,195 m³/d RO

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Technical Advisor

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Other / Unknown
Buraydah-2 ISTP, Buraydah, Saudi Arabia 2021, 150,000 m³/d
Other / Unknown
Tabuk 2 ISTP, Tabuk, Saudi Arabia 2021, 90,000 m³/d Other /
Unknown
Jubail 3A IWP, Jubail, Saudi Arabia 2020, 600,000 m³/d RO
Jubail 3B IWP, Jubail, Saudi Arabia 2020, 570,000 m³/d RO
Jeddah Airport 2 ISTP, Jeddah Airport, Saudi Arabia 2020,
300,000 m³/d Other / Unknown
Dammam ISTP, Dammam, Saudi Arabia 2020, 200,000 m³/d
Other / Unknown
Taif ISTP, Taif, Saudi Arabia 2020, 100,000 m³/d Other /
Unknown

Lender's Engineer

Rabigh 4, Rabigh, Saudi Arabia 2023, 600,000 m³/d RO
Project Wave, Abu Dhabi, United Arab Emirates 2023, 522,800
m³/d NF
Jafurah IWP, Jafurah, Saudi Arabia 2023, 80,000 m³/d RO
Shuaibah 3 IWP, Shuaibah, Saudi Arabia 2022, 600,000 m³/d RO
Mirfa 2, Abu Dhabi, United Arab Emirates 2022, 545,531 m³/d RO
Zuluf Water Treatment Plant, Zuluf, Saudi Arabia 2022, 184,775
m³/d Other / Unknown
Hassyan IWP, Hassyan, United Arab Emirates 2021, 545,000 m³/d
RO
Yanbu 4 IWP, Yanbu, Saudi Arabia 2021, 450,000 m³/d RO
Shuaibah 2 Exp II IWP, Shuaibah, Saudi Arabia 2021, 250,000
m³/d RO
Shuaibah 3 Exp 2 IWP, Shuaibah, Saudi Arabia 2020, 250,000
m³/d RO
Umm Al Quwain IWP, Umm Al Qwain, United Arab Emirates
2019, 682,000 m³/d RO
Rabigh 3 IWP, Rabigh, Saudi Arabia 2018, 600,000 m³/d RO
Shuqaiq 3 IWP, Shuqaiq, Saudi Arabia 2018, 450,000 m³/d RO
Muharraq STP, Muharraq, Bahrain 2012, 100,000 m³/d Other /
Unknown
Ajman STP, Ajman, United Arab Emirates 2012, 90,000 m³/d
Other / Unknown

The future of high-recovery RO



Unlocking the potential of the world's leading desalination technology

The advantages of high-recovery RO

Increasing recovery rates can save money and improve efficiency throughout a desalination treatment train

RO is a well developed technology but it is not fully mature. One of the key areas in which the technology can still be improved is recovery rate. Traditionally, continuous single-stage SWRO systems are operated to recover around 30-50% of the feedwater as permeate. However, running at higher recovery rates brings several significant benefits to a desalination process, from pretreatment to brine management.

The benefits of high-recovery RO over traditional RO systems:

- Pretreatment and intake capex reductions**
Increasing the recovery rate of a water production RO system means less feedwater is needed to produce the same volume of desalinated water. This means a smaller pretreatment system and seawater intake can be used, reducing plant footprint and costs of plant construction.
- Pretreatment and intake opex reductions**
Smaller pretreatment and intake systems also provide savings to operational costs which help to offset any additional opex from the high-recovery RO process itself. Reduced pretreatment means reduced chemical and energy usage, while smaller intake pumps help reduce energy consumption further.
- Additional operational benefits**
Some modern high-recovery RO systems are designed to more effectively balance flux rates across membrane elements and disrupt concentration polarisation layers. This helps improve membrane efficiency, performance and longevity.
- ZLD/MLD cost reductions**
High-recovery RO also offers value outside of water production for the zero and minimal liquid discharge (ZLD/MLD) markets. Its ability to concentrate brine to higher TDS values means it can be used to reduce the required size and energy requirements of a costly evaporator or crystalliser.

Explore the use of high-recovery RO systems in the desalination sector

Access this white paper for:

- The advantages and available technologies for high-recovery RO
- Potential growth opportunities within high-recovery RO for brackish and seawater application

To learn more about GWI Network white papers contact: rd@globalwaterintel.com

The technological landscape of high-recovery

There are multiple approaches to increasing recovery rates currently on the market

Although high-recovery RO can often be talked about as a single idea, it is a goal rather than a specific approach. To reach this goal, the two key membrane-centric obstacles are scaling and pressure limitations, with several approaches to addressing them.

"The industry has seen a lot of emphasis on improving desal system recovery to both make more effective use of the feedwater and minimise the complications and cost of concentrate disposal. There are a growing number of options available to increase RO system recovery and even more potential options that are currently under development."
Tom Pankratz - Editor, WDR

Approaches:

Approach	Description	EP
Utilise multiple stages	Multi-stage RO allows for higher recovery rates while keeping cross-flow velocity high and flux balanced across the system, reducing scaling potential and allowing membranes to operate in relaxed conditions.	BiTurbo™
Operate in timed modes	Halting brine discharge until desired conditions are met allows for more water to be recovered, and means recovery can be easily controlled by varying the time interval between discharges.	Semi-batch RO, Pulse flow RO
Reduce osmotic pressure gradient	Bringing down the osmotic pressure gradient across the membrane reduces the pressure requirements and permits more water to be recovered from high-salinity streams without damage.	Counterflow RO, Osmotically assisted RO, Impact RO™
Disrupt or resist scale formation	Changes to hydraulic conditions to disrupt scale formation, or specifically designed membrane coatings and cleaning methods, allow an RO system to run beyond standard operating conditions without damage.	OsmoFlo Brine Squeezer™, Flow-reversal RO
Increase pressure	Increasing operating pressure allows for more water to be recovered but requires specialist components and brings additional operational challenges.	Ultra-high pressure RO

Design considerations



Begin with the membrane

Traditional RO configurations restrict options for optimising membrane efficiency. Configurations should be chosen to allow the membranes to best meet desired recovery and permeate quality.



Potential for hybrid configurations

Many of the approaches listed can theoretically be used in combination with each other, allowing for even higher recovery rates where needed, such as in brine minimisation applications.

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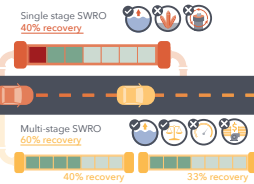
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The road to high-recovery SWRO

New components mean multi-stage SWRO is now viable

Historical approach to SW & BW

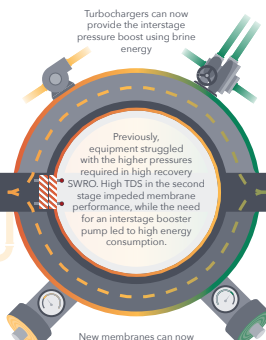
In BWRO, multiple stages are commonly used to provide higher recovery rates, yet SWRO has historically involved just a single stage. However, producing more water from a single stage results in overfluxed load elements, increasing scaling potential and decreasing membrane lifespan. The solution is to use multiple stages.



Multi-stage for SWRO

A multi-stage configuration allows pressure to be increased across the system as the TDS and osmotic pressure of the feedwater increases, balancing load across elements and avoiding overfluxing. Multi-stage SWRO setups have been built in the past but were historically limited by the performance of available components.

Turbochargers can now provide the interstage pressure boost using brine energy



New membranes can now perform well at the higher pressures of later stages

Result: Running SWRO like BWRO

As in brackish water applications, it is now possible to run a cost-effective and reliable multi-stage, high-recovery SWRO system. Where still higher recovery rates are required, such as in ZLD applications, UHPRO stages can be included.

Previously, equipment struggled with the higher pressures required in high recovery SWRO. High TDS in the second stage impeded membrane performance, while the need for an interstage booster pump led to high energy consumption.

"Essentially, today you can make a seawater type system and run it like a brackish water system with multiple stages."
Craig Bartels - VP Technology, Hydronautics

Semi-batch in seawater

The potential for using semi-batch RO with seawater is being investigated with a grant from Singapore's PUB in 2021, building on commercial success in BWRO applications.

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Pipes, Valves & Fittings


Selected references since 2012 from companies supplying pipes, valves and fittings to desalination or reuse projects.

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The AGRU success story has lasted for more than seven decades. Founded back in 1948 by Alois Gruber Sr., nowadays, the company is one of the world's most important single-source suppliers for high-quality products made from engineering plastics. The thermoplastics worked by AGRU are extremely high-quality engineering polymers used in virtually all branches of industry where durability, operational dependability, cost certainty and versatility are essential.

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Thermoplastic Fittings

- Honaine, Algeria 2007, RO
- Desaladora, Honaine (Argelia), Algeria 2007
- P.Des. Puerto Alcudia, Alcudia (P. Mallorca), Spain 2006
- P Des Aguilas I fase, Aguilas (Murcia), Spain 2006
- P.Des. Torrevieja, Torrevieja (Alicante), Spain 2006
- P Des. Ciutadella, Ciutadela (Menorca), Spain 2005
- Desalinizadora, Martos (Jaen), Spain 2002
- P. Des. Granadilla, Carboneras Almeria, Spain 2000
- P. Des Lanzarote IV, Lanzarote, Spain 2000
- Tuas, Singapore, RO
- Andrax, Spain, RO

Legend

(D) Desalination (R) Wastewater reuse

Perth, WA, Australia, RO
Fujairah, Saudi Arabia, RO
Las Palmas, Gran Canaria, Spain, RO
Candelaria, Chile, RO
Tenerife, Spain, RO
Shdod, Israel, RO
Venezuela, RO
Tenes, Algeria, RO
Mantosverdes, Chile, RO

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SELECTED REFERENCES

Equipment Supplier: Membrane Outlet Sampling Three-Way Ball Valves

Sierra Gorda, Chile 2013, 30,000 m³/d RO
Spain 2013, 24,000 m³/d RO
Beckton, United Kingdom 2010, 150,000 m³/d RO

Equipment Supplier: Thermoplastic Valves and Fittings

Ptolemais, Greece 2018, 60,000 m³/d RO
Qurayyat, Oman 2017, 200,000 m³/d RO
Jubail IV, Saudi Arabia 2015, 100,000 m³/d RO
Fujairah, Saudi Arabia 2014, 137,000 m³/d RO
Sorek, Israel 2013, 624,000 m³/d RO
Tuas II, Singapore 2013, 318,500 m³/d RO
Carlsbad, United States 2013, 205,000 m³/d RO
Jamnagar Gujarat, India 2013, 168,000 m³/d MED
Episkopi, Cyprus 2013, 50,000 m³/d RO
Sierra Gorda, Chile 2013, 30,000 m³/d RO
Spain 2013, 24,000 m³/d RO
Majis Sohar Industrial Port Complex, Oman 2013, 16,000 m³/d RO

Equipment Supplier: Valves

Qurayyat, Oman 2016, 200,000 RO
Ras Abu Fontas, Qatar 2015, 163,656 RO
Sierra Gorda, Chile 2014, 8,800 RO

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Jamnagar, India 2013, 168,000 RO
Al Ghubrah, Oman 2012, 190,932 RO
Carlsbad proposed site, United States 2012, 189,250 RO
Al Jubail, Saudi Arabia 2012, 100,000 RO

Hubu SWRO, China, RO
Santa Bárbara, Curaçao, RO
Zhilaza SWRO, China, RO
PCN Project, Panama, RO
Masinloc Project, Philippines, RO
70 MW Cogeneration Power Plant, India, RO
Assuit Power Plant, Egypt, RO
WTP Baja California III, Mexico, RO
New West Damietta, Egypt, RO
Vinh Tan 4 SWRO Project, Vietnam, RO
Ethane Cracker & EP/PP Plant, Turkmenistan, RO
P198_10 SWRO ASRY, Bahrain, RO
Xudapu Nuclear Plant SWRO Project, China, RO
Phase III Enlargement WTS Project, Shoaiba, Saudi Arabia, RO
Saba Cooling Plant with Sea Water, Iran, RO

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Equipment Supplier: Plug Valves

Shuaibah III (Extension II), Saudi Arabia 2017, 250,000 m³/d RO
Djibouti SWRO, Republic of Djibouti 2017, 22,500 m³/d RO
Al-Hoceima, Morocco 2017, 17,280 m³/d RO
Facility D, Qatar 2016, 272,760 m³/d RO
El Galalah SWRO, Egypt 2016, 150,000 m³/d RO
El Alamein, Egypt 2016, 150,000 m³/d RO
Sarlux Refinery, Sarroch, Italy 2016, 12,000 m³/d RO
Ras Abu Fontas A3, Qatar 2015, 163,656 m³/d RO
3rd Desalination Plant at Tuas, Singapore 2015, 136,260 m³/d RO
Mirfa, Abu Dhabi, United Arab Emirates 2014, 140,000 m³/d RO
CILACAP SWRO Project, Indonesia 2014, 7,800 m³/d RO
AGRAGUA Retrofit SWRO, Galdar, Gran Canaria, Spain 2014, 5,000 m³/d RO
Angamos/Mejillones Phase I, Chile 2014, 4,800 m³/d RO
Janmagar, Gujarat SWRO, India 2013, 168,000 m³/d RO
Provisur, Lima, Peru 2013, 12,960 m³/d RO
Al Ghubrah, Oman 2012, 190,932 m³/d RO
Fujairah, Al Fujairah, United Arab Emirates 2012, 136,000 m³/d RO
Kaltim Project, Bontang, East Kalimantan, Indonesia 2012, 7,200 m³/d RO
Asona project Takoradi T2, Ghana 2012, 2,600 m³/d RO
Royalton Santa Lucia, Saint Lucia, 400,000 m³/d RO
Atacata SWRO, Chile, 104,000 m³/d RO
SWRO Jubail, United Arab Emirates, 100,000 m³/d RO
Cia. Cervecera Dam, Spain, 100,000 m³/d RO
El Yousr Plant Expansion, Egypt, 40,000 m³/d RO
El Yousr Plant, Egypt, 40,000 m³/d RO
Sea Water SWRO System Tehran, Iran, 40,000 m³/d RO
Red Sea SWRO Plant, Saudi Arabia, 40,000 m³/d RO
Las Palmas II, Canary Islands, Spain, 36,000 m³/d RO
Al Khafji, Saudi Arabia, 30,000 m³/d RO
IDAM Ceuta, Spain, 22,000 m³/d RO
Boleo Project, Baja California, United States, 5,000 m³/d RO
MSM Project in BQ field, United Arab Emirates, 3,180 m³/d RO
Jazan Utility SWRO, Saudi Arabia, 2,535 m³/d RO
Halayeb & Shalateen, Egypt, 1,500 m³/d RO
Mirfa SWRO Plant, United Arab Emirates, 30.0 MIGD RO
Shandong Longkov SWRO, China, RO
Pembroke Retrofit, Malta, RO
Huangdao SWRO, China, RO

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Equipment Supplier: Electric Actuators for Valve Automation

Zarat Seawater Desalination Plant, Tunisia 2020, 100,000 m³/d RO
SWCC Satellite SWRO plants, Saudi Arabia 2019, 240,000 m³/d RO
Aguas Chañar SWRO Caldera, Atacama, Chile 2018, 77,760 m³/d RO
Minera Spence Desaladora, Chile 2017, 138,240 m³/d RO
Barka Independent Water Project, Oman 2016, 281,000 m³/d RO
Marina East 4 Desalination Plant, Singapore 2016, 30.0 MGD RO
Yanbu III Desalination Plant, Saudi Arabia 2015, 550,000 m³/d MSF
Qurayyat Desalination, Oman 2015, 200,000 m³/d RO
Santa Barbara, California, United States 2015, 4.0 million m³/yr RO
Carlsbad Desalination, California, United States 2014, 190,000 m³/d RO
Ensenada Desalination, Mexico 2014, 21,600 m³/d RO
Ras Al Khair IWPP Desalination Plant, Saudi Arabia 2013, 1,036,000 m³/d MSF
Marafiq IWPP Jubail, Saudi Arabia 2012, 800,000 m³/d MED
SWCC QASSIM RO, Saudi Arabia 2012, RO
Shuaibah III IWPP DES, Saudi Arabia, 880,000 m³/d MSF
Subiya Desalination Plant, Kuwait, 454,600 m³/d MSF
Sydney Desalination Plant (formerly known as Bluewaters Desalination Plant), Australia, 250,000 m³/d RO
Sohar Desalination, Oman, 250,000 m³/d RO
Shuqaiq IWPP DES, Saudi Arabia, 212,000 m³/d RO
Sohar IWPP, Oman, 150,000 m³/d RO
Cape Preston Desalination Plant, Australia, 140,000 m³/d RO
Melbourne Desalination Plant, Australia, 160.0 million m³/yr RO
Soreq Desalination Plant (formerly known as Shafdan), Israel, 150.0 million m³/yr RO

Jebel Ali M Desalination Plant, United Arab Emirates, 140.0 MIGD MSF
 Hadera Desalination Plant, Israel, 127.0 million m³/yr RO
 Palmachim Desalination Plant Extension, Israel, 90.0 million m³/yr RO
 Palmachim Desalination Plant, Israel, 45.0 million m³/yr RO

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Equipment Supplier: Expansion Joints

Salalah Power and Desalination Plant, Oman 2019, 113,650 m³/d
 Jebel Ali Power & Desalination SWRO, Dubai, United Arab Emirates 2019, 182,000 m³/d RO
 KSA West Coast New Satellite Plants, Saudi Arabia 2019, 23,800 m³/d
 Morgan Desalination Plant, Egypt 2019
 Djibouti Desalination Plant, Djibouti 2018, 45,000 m³/d
 Provisur Desalination Plant, Peru 2018, 35,000 m³/d
 Desalination Plant - Agadir I, Morocco 2018, 27,500 m³/d
 NSAR Desalination Plant, Egypt 2018
 ATACAMA DESALINATION PLANT, Mexico 2018
 AL-HOCEIMA DESALINATION PLANT, Morocco 2018, RO
 Barka IV Desalination Plant, Oman 2017, 280,000 m³/d RO
 Sohar Desalination Plant, Oman 2017, 250,000 m³/d RO
 Kigoro Desalination Plant, Kenya 2017, 142,000 m³/d RO
 TUAS Desalination Plant, Singapore 2017, 136,380 m³/d RO
 EL TOR SWRO PLANT, Egypt 2017, 30,000 m³/d RO
 SHUAIBAH III DESALINATION PLANT, United Arab Emirates 2017, 250 m³/d
 BAHIA DE PALMA DESALINATION PLANT, Spain 2017, 7 m³/d
 BARKA IV IWPP - Desalination Plant -BATCH 3, Oman 2017, RO
 Osmorec SWCC Retrofit, United Arab Emirates 2017
 AL GHUBRAH Desalination Plant, Oman 2017, RO
 Umm Al Houl Desalination Plant, Qatar 2016, 514,000 m³/d RO
 Basrah P3 Desalination Plant, Iraq 2016, 190,000 m³/d RO
 Doha West Desalination Plant, Qatar 2016, 110,000 m³/d RO
 Mexico 2016, RO
 Ras Abu Fontas A3 Desalination Plant, Qatar 2015, 163,656 m³/d RO
 Az Zour North Desalination Plant, Kuwait 2014, RO
 Al Ghubrah Desalination Plant, Oman 2012, 190,932 m³/d
 SWR4 Jubail Desalination Plant, Saudi Arabia 2012, 100,000 m³/d
 Salbouk RO Plant, Saudi Arabia 2012, 30,000 m³/d RO
 Perth III Desalination Plant, Australia, 306,000 m³/d
 Athmania A Desalination Plant, Algeria, 262,500 m³/d
 Mirfa Desalination Plant, United Arab Emirates, 240,000 m³/d
 Aguilas Desalination Plant, Spain, 210,000 m³/d
 Fujairah Desalination Plant, United Arab Emirates, 170,500 m³/d
 Fujairah Desalination Plant, United Arab Emirates, 137,000 m³/d

Beckton Desalination Plant, United Kingdom, 120,000 m³/d
 Galilah SWRO Desalination Plant, Ras Al Khaima, United Arab Emirates, 68,000 m³/d RO
 San Pedro Del Pinatar, Murcia Desalination Plant, Chile, 65,000 m³/d
 Ain Tinn Desalination Plant, Algeria, 58,000 m³/d
 Al-Haraj SWRO, Saudi Arabia, 50,000 m³/d
 10 MIGD SWRO Desalination Plant- AL Zawra, United Arab Emirates, 45,000 m³/d RO
 Moncofa Desalination Plant, Spain, 36,000 m³/d
 Marina Baja Desalination Plant, Spain, 25,000 m³/d

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Castflow Valves is a valve manufacturer that specializes in check valves. Our range of manufacturing includes BALL CHECK, DUAL PLATE, SILENT CHECK and FOOT VALVES, and covers DN25 (1") to DN1500 (60") PN10-100 ANSI150-600# wafer/flanged/lug style. Valves can be cast in different materials, including iron, stainless and super-duplex steel, as well as other special, exotic alloys.

Our company has been involved in many of the most important desalination projects globally. At Castflow Valves, we assist with technical support to select the valves and materials that provide the best fit. We are a leading supplier to important equipment builders that have relied for many years on our professional collaboration and quality.

Castflow has developed new and improved rubber-lined check valves for applications with abrasive and corrosive fluids. The complete 1-piece rubber-lined valve does not contain glued rubber, guaranteeing a uniform rubber thickness that fully covers the metal surface in contact with the fluid. In addition, our rubber-lined ball check valves are unique in the wastewater market for applications with fluid containing sludge, solids, etc. Stainless steel or super-duplex ball check valves are additional options for corrosive applications.

Castflow continuously develops new products depending on the demands of the market and can develop check valves if customers and Castflow have mutual interests. This leads to a close collaboration with our customers.

SELECTED REFERENCES

Equipment Supplier: High Pressure Dual Plate Check Valves

Increment SWRO Las Americas, Tenerife, Spain 2015, 10,000 m³/d RO
 Carlsbad SWRO Desalination Project, CA, United States 2014, 204,412 m³/d RO
 Seawater RO Desalination, Janmagar, India 2014, 160,000 m³/d RO

Equipment Supplier: High Pressure Nozzle Check Valves

Larnaca Desalination, Larnaca, Cyprus 2013, 46,500 m³/d RO
 Ashdod Desalination Plant, Ashdod, Israel 2012, 320,000 m³/d RO

Equipment Supplier: Low and High Pressure Dual Plate Check Valves

Oman Sur IWP Expansion, Oman 2015, 48,000 m³/d RO
 Sadara SWRO Desalination Plant, Jubail, Saudi Arabia 2013, 178,560 m³/d RO
 Campo Dalias, Almeria, Spain 2013, 97,200 m³/d RO
 SWRO Jorf Lasfar, Morocco 2013, 75,800 m³/d RO
 Ras Al Khaimah Ghalilah, Ras Al Khaimah, United Arab Emirates 2013, 68,100 m³/d RO
 Mantoverde, Chile 2013, 24,000 m³/d RO
 Tia Juana, Venezuela 2013, RO
 Az Zour South RO Desalination Plant, Kuwait 2012, 136,000 m³/d RO
 Punta Cardon Desalination Plant PVDSA, Punta Cardon, Venezuela 2012, 75,000 m³/d RO
 Vasilikos Desalination Plant, Vasilikos, Cyprus 2012, 60,000 m³/d RO
 Al Zawrah Power Plant FEWA, Ajman, United Arab Emirates 2012, 45,560 m³/d RO
 Aruba Desalination Plant, Aruba 2012, 24,000 m³/d RO
 Extension Lanzarote V, Lanzarote, Spain 2012, 10,000 m³/d RO
 SA Desalination Plant, Adelaide, Australia 2011, 300,000 m³/d RO
 Extension IDAM Campio De Cartagena Valdelentisco, Cartagena, Spain 2011, 210,000 m³/d RO
 Marina Baja Mutxamel, Alicante, Spain 2011, 50,000 m³/d RO
 Extension Itam Ute Telde Phase II, Telde, Spain 2011, 16,000 m³/d RO
 Rafah And El Sheikh Zowayed Sinai SWRO, Rafah and El Sheikh Zowayed Sinai, Egypt 2011, 10,000 m³/d RO
 IDAM Torreveija, Torreveija, Spain 2010, 240,000 m³/d RO
 Beckton Desalination Plant Thames Gateway Water, Beckton, United Kingdom 2010, 150,000 m³/d RO
 Sino Iron Cape Preston, WA, Australia 2010, 140,000 m³/d RO
 Extension Itam Delta De La Tordera, Tordera, Spain 2010, 28,800 m³/d RO

Equipment Supplier: Low Pressure Dual Plate Check Valves

Sorek Bot SWRO Project, Israel 2012, 624,000 m³/d RO
 Fujairah II RO Desalination Plant, United Arab Emirates 2010, 136,000 m³/d RO

Equipment Supplier: Valves

Jubail 2 Replacement Plant, Al Jubail, South America, Saudi Arabia 2022, 1,000,000 m³/d RO

Shoaiiba 5, Shuaiba, MENA, Saudi Arabia 2022, 600,000 m³/d RO
 Mirfa 2 IWP, Abu Dhabi, MENA, United Arab Emirates 2022, 545,520 m³/d RO
 Shoaiiba 3 expansion 2 IWP, Shuaiba, MENA, Saudi Arabia 2022, 250,000 m³/d RO
 Doña Ines de Collahuasi Seawater Desalination Plant, Collahuasi, South America, Chile 2022, 90,720 m³/d RO
 Sorek B Desalination Plant, Israel 2020, 550,000 m³/d RO
 Atacama, Copiapo, Chile 2019, 38,800 m³/d RO
 Umm Al Quwain IWP, Umm Al Quwain, United Arab Emirates 2020, 150,000 m³/d RO
 Formosa Petrochemical Corporation, Formosa, Taiwan 2020, 105,000 m³/d RO
 KSA Westcoast Satellite, Saudi Westcoast, Saudi Arabia 2019, 187,000 m³/d RO
 Jebel Ali Powerplant, Jebel Ali, United Arab Emirates 2020, 40,000 m³/d RO
 Jurong Island, Singapore 2019, 136,000 m³/d RO
 Quebrada 2, Quebrada, Chile 2019, RO
 Spence Copper Mine, Spence, Chile 2018, 86,400 m³/d RO
 Djibouti Desalement, Republic of Djibouti 2018, 22,500 m³/d RO
 Increment, Ashkelon, Israel 2017, 330,000 m³/d RO
 Bandar Abas Sako, Bandar Abas, Iran 2017, 200,000 m³/d RO
 Basrah P4 Water Supply Improvement Project, Basrah, Iraq 2017, 100,000 m³/d RO
 Seawater RO Desalination, Al Khafji, Saudi Arabia 2017, 60,000 m³/d RO
 Increment SWRO EDAM Maspalomas, Maspalomas, Spain 2013, 5,000 m³/d RO

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Equipment Supplier: GRP Pipes and Fittings

CMWSSB, 150 MLD Sea Water Desalination, Nemmeli, Chennai, India 2022, 150,000 m³/d RO
 Tanajib SWRO Desalination, Marjan, Saudi Arabia 2022, 24,000 m³/d RO
 150MLD Sea Water Desalination, Nemmeli, Chennai, India 2021, 150,000 m³/d RO
 100 MLD SWRO Desalination Plant, Dahej, Gujarat, India 2021, 100,000 m³/d RO

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ADNOC CFP Project 18002 for Desalination Plant, Abu Dhabi, United Arab Emirates 2021, Other / Unknown

150 MLD Nemili Phase-II Desalination Project at Tamil Nadu, Tamil Nadu, India 2020, 150,000 m³/d

100 MLD GIDC SWRO Desalination Project in Dahej, Gujarat,, Gujarat, India 2020, 100,000 m³/d RO

AMSA Minera Los Palambres Desalination Project in Chile, Bechtel Chile Ltd., Chile 2020

ADNOC CFP Project 18002 for Desalination Plant at Abu Dhabi (UAE), Abu Dhabi, United Arab Emirates 2019

Escondida Water Supply Expansion Project, Minera Escondida Ltd., Chile 2018, 216,000 m³/d RO

Keppel Marina East SWRO Plant, Singapore 2018, 137,000 m³/d RO

Escondida Water Supply Expansion (EWS) Project in Chile, Minera Escondida Ltd., Chile 2018

Reliance Industries SWRO Plant, Jamnagar, Gujarat, India 2017, 160,000 m³/d RO

Escondida Water Supply Expansion Project, Minera Escondida Ltd., Chile 2017, 69,120 m³/d RO

King Abdulaziz International Airport Desalination Plant, Jeddah, Saudi Arabia 2017, 35,000 m³/d RO

RO Desalination Plant Jeddah, K.S.A., Saudi Arabia, Jeddah, Saudi Arabia 2017, 35,000 m³/d RO

Saurashtra Chemicals (Division of Nirma Ltd.) Saukem Desalination Project, Porbander, Gujarat, India 2017, 10,000 m³/d RO

Kindasa Water Services Kau Rabigh SWRO Plant, Saudi Arabia 2017, 6,000 m³/d RO

SWRO Plant, Saudi Arabia, Saudi Arabia 2017, 6,000 m³/d

3rd Desalination Plant at Tuas, Tuas, Singapore 2017, RO

Saukem Desalination Project at Porbander, Gujarat, Porbander, Gujarat, India 2017

SWRO Plant, Jamnagar, Gujarat, Jamnager, Gujarat, India 2017, RO

Escondida Water Supply Expansion (EWS) Project in Chile, Minera Escondida Ltd., Chile 2017

SWRO Desalination Plant, Nemmeli, Chennai, India 2016, 100,000 m³/d RO

3rd Desalination Plant at Tuas, Singapore, Tuas, Singapore 2016

Putatan Water Treatment Plant, Philippines 2014, 150,000 m³/d RO

Mirfa desalination plant, Abu Dhabi, Mirfa, United Arab Emirates 2014, 140,000 m³/d RO

Beetham Water Recycling Project, Trinidad and Tobago 2014, 37,854 m³/d RO

Putatan Water Treatment Plant in Philippines, Philippines 2014

WTP Plant, Ganga Jal Project, Agra, India 2013, 144,000 m³/d RO

Putatan Water Treatment Plant, Manila, Philippines 2013, 100,000 m³/d RO

Mong Duong II Desalination Project, Vietnam 2013, RO

Tuas 2 - DBOO Seawater Desalination Project, Singapore 2012, 264,978 m³/d RO

Barka Desalination Project, Barka, Oman 2012, 45,460 m³/d RO

Seawater Desalination Project in Singapore, Singapore 2012, 70 MGD

UTE Abeima Teyma Barka Desalination Project in Oman, Oman 2012

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Equipment Supplier: Valves

Al Jezeerah Seawater Desalination Plant, Al Hamra, Emirate of Ras Al Khaimah, United Arab Emirates 2020, 83,279 m³/d Other / Unknown

Ras Alkhaimah Desalination Plant, Ras Alkhaimah, United Arab Emirates 2019, 100,000 m³/d RO

Kalba SWRO, Sharjah, United Arab Emirates 2019, 10,000 m³/d RO

Adeje, Tenerife, Spain 2017, 40,000 m³/d RO

Formentera, Spain 2017, 5,000 m³/d RO

Perth II, Perth, Australia 2014, 140,000 m³/d RO

Minera Candelaria, Cerro Padrones, Chile 2012, 29,800 m³/d RO

Hamriyah IV Phase I, Hamriyah, United Arab Emirates, 90,922 m³/d RO

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Equipment Supplier: Fiberglass Pipe Systems

Facility D Independent Power & Water Project at Umm Al Houli, Doha, Umm Al Houli, Qatar 2016, 347,770 m³/d Hybrid

Az Zour North IWPP Project – Offshore, Kuwait 2014, 486,400 MED

Jeddah South Project, Jeddah, Saudi Arabia 2014, RO

Qurayyah IPP, Saudi Arabia 2013, 17,352 RO

Takoradi T1 Cooling System Project, Takoradi, Ghana 2013, 4,000 RO

Takoradi T2 Power Plant Expansion EPC Project, Takoradi, Ghana 2013, RO

Yanbu-II Power and Water Project, Yanbu, Saudi Arabia 2013, Other/Unknown

PACO Coal Fired Power Plant, Panama 2013, VC

Al Hidd Power Plant, Al Hidd, Bahrain 2012, Other/Unknown

Kimanis Power Plant Project, Kimanis, Malaysia 2012, Other/Unknown

Shuweihaat S3 Power Plant, United Arab Emirates 2012, RO

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Equipment Supplier and Installer: GRP Piping

Sousse SWRO, Tunisia 2019, 50,000 m³/d RO
Atacama, Copiapo & Chanaral Desalination Project, Chile 2018
Desalination Project 2018
Curaçao Desalination Plant, Spain 2018
Republic of Djibouti 2018
Oropesa Desalination Project, Spain 2017
Janubio Desalination Project, Spain 2017
Granadilla Desalination Project, Spain 2015
Tenerife Desalination Project, Spain 2015
Atacama, Copiapo & Chanaral Desalination Project, Chile 2015
Lanzarote Desalination Project, Spain 2013
Granadilla Desalination Project, Granadilla, Spain 2013
Lanzarote Desalination Project, Lanzarote 2012

Equipment Supplier and Installer: GRP Piping and Tanks

Djerba Desalination Project, Tunisia 2015

Equipment Supplier and Installer: GRP Piping Spools

Zart SWRO, Tunisia 2020, 50,000 m³/d RO
Limassol SWRO, Cyprus 2019, 50,000 m³/d RO
Sousse SWRO, Tunisia 2018, 50,000 m³/d RO

Equipment Supplier and Installer: Pipes

Sfax SWRO Desalination Project, Sfax, Tunisia 2022, 100,000 m³/d RO
Sugar Refinery, Saudi Arabia 2019

Equipment Supplier: GRP Piping Spools

Sousse SWRO, Sousse, Tunisia 2018, 50,000 m³/d RO

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Equipment Supplier: Plastic Pipes, Fittings and Valves

Carlsbad SWRO, Carlsbad, CA, United States 2014, 189,250 m³/d RO
Sadara SWRO, Al Jubail, Saudi Arabia 2014, 178,560 m³/d RO
Turkmenbashi Phase 2, Turkmenbashi, Turkmenistan 2014, 70,000 m³/d RO
Barka I expansion ph. 2, Barka, Oman 2014, 56,775 m³/d RO
BP Khazzan Project, Oman 2014, 6,000 m³/d RO
Cleopatra SWRO, Marsa Matruh, Egypt 2014, 4,500 m³/d RO
Sidi Barani SWRO, Sidi Barani, Egypt 2014, 3,000 m³/d RO
Kailey Hutchinson Facility, El Paso, TX, United States 2014, RO

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Equipment Supplier: Pipes and Prefabrication

Azzour, Kuwait 2015, 486,000 m³/d RO
Mirfa, Abu Dhabi, United Arab Emirates 2015, 238,665 m³/d RO
Sohar, Oman 2015, 5,600 m³/d RO
Al Ghubrah, Oman 2013, 190,000 m³/d RO
Carlsbad, United States 2013, 189,000 m³/d RO
Jamnagar, India 2013, 168,000 m³/d RO
Azzour South, Kuwait 2013, 136,000 m³/d RO
Ghalilah R.A.K., United Arab Emirates 2013, 68,000 m³/d RO
Larnaca, Cyprus 2013, 52,000 m³/d RO
Tuas II, Singapore 2012, 318,500 m³/d RO
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Palmachim Expansion, Israel 2012, 125,000 m³/d RO
Al Zawrah, United Arab Emirates 2012, 45,460 m³/d RO
Adani Desalination Plant, India 2012, 30,000 m³/d RO
Sohar Desalination, Oman 2012, 16,000 m³/d RO
Fujairah II, United Arab Emirates, 125,000 m³/d RO
Steel Mill MMK Atakas, Dörtyol, Turkey 31,000 m³/d RO
SWRO Ghana Seawater, Ghana, 20,000 m³/d RO
New Qidfa Desalination Plant, Fujairah, United Arab Emirates, 13,600 m³/d RO

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Dubai Palm, Dubai, United Arab Emirates, RO
Hamriyah II, Sharjah, United Arab Emirates, RO
Qatar Desalination Plant, Qatar, RO
Sohar, Al Batinah Coast, Oman, 250,000 m³/d RO
SAKO Desalination Plant, Iran, 200,000 m³/d Unknown
Damavand Petrochemical Complex, Iran, 50,000 m³/d Unknown
West Coast Desalination Plants (28x), Saudi Arabia, 8,500 m³/d

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United Arab Emirates 2022, 65,000 m³/d RO
Sukari Gold Mine, Egypt 2021, 442,800 m³/d RO
United Arab Emirates 2021, 400,200 m³/d RO
United Arab Emirates 2021, 12,630 m³/d RO
Formosa, Taiwan 2021, 3,900 m³/d RO
Umm Al Houll II, Qatar 2018, 300,000 m³/d RO
Barka IV, Oman 2018, 280,000 m³/d RO
Agadir, Morocco 2018, 275,000 m³/d RO
Shuaibah III Exp. II IWP, Saudi Arabia 2018, 250,000 m³/d RO
Shoaiba 4, Saudi Arabia 2018, 250,000 m³/d RO
SWCC Satellite Plants, Saudi Arabia 2018, 240,000 m³/d RO
AL DUR II, Bahrain 2018, 227,300 m³/d RO
Alkhobar, Saudi Arabia 2018, 210,000 m³/d RO
JIDP, Singapore 2018, 200,000 m³/d RO
Jebel Ali, United Arab Emirates 2018, 182,000 m³/d RO
East Port Said, Egypt 2018, 150,000 m³/d RO
6 SWRO, Egypt 2018, 120,000 m³/d RO
Salalah, Oman 2018, 113,650 m³/d RO
Ras Al Khaimah, United Arab Emirates 2018, 100,000 m³/d RO
Quebrada Blanca, Chile 2018, 80,000 m³/d RO
Oman Sur Expansion, Oman 2018, 42,922 m³/d RO
Atacama, Chile 2018, 38,800 m³/d RO
Provisur, Peru 2018, 35,000 m³/d RO
El Tor, Egypt 2018, 30,000 m³/d RO
KAEC, Saudi Arabia 2018, 30,000 m³/d RO
Safaniyah, Saudi Arabia 2018, 30,000 m³/d RO
Sharma, Saudi Arabia 2018, 24,000 m³/d RO
Djibouti, Republic of Djibouti 2018, 22,500 m³/d RO
Tenerife Este retro + ext, Spain 2018, 20,000 m³/d RO
Malta 2018, 20,000 m³/d RO
Egypt 2018, 20,000 m³/d RO
Talara, Peru 2018, 20,000 m³/d RO
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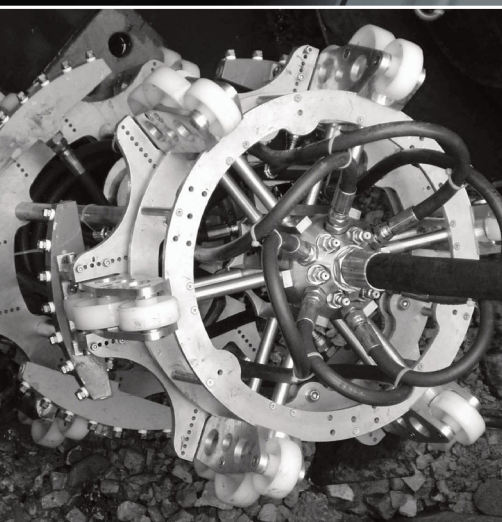
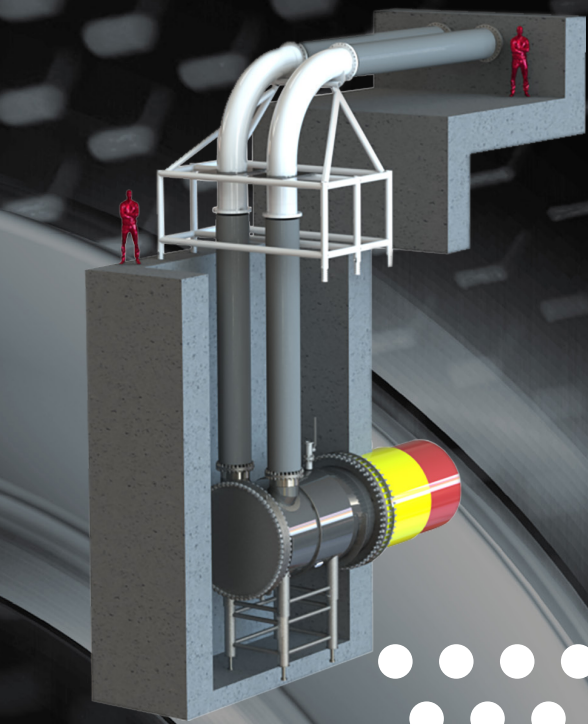


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Antofagasta , Chile 2015, 85,000 m³/d RO
Fujairah IWPP, United Arab Emirates 2014, 455,000 m³/d RO
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Al Ghubrah, Oman 2013, 191,000 m³/d RO
Reliance, Jagmnagar, India 2013, 168,000 m³/d RO
Orange County GWRS, United States 2012, 265,000 m³/d RO
Perth SSDP, Australia 2012, 140,000 m³/d RO
Barka, Oman 2012, 45,460 m³/d RO

Equipment Supplier: Couplings

Ras Laffan, Qatar 2021
Shoaiabah Expansion, Saudi Arabia 2021
Al Khobar II, Al Khobar, Saudi Arabia 2021
Jubail 3B, Al Jubail, Saudi Arabia 2021
Yanbu IV, Yanbu, Al Madinah, Saudi Arabia 2021
Shuqaiq 4, Al Shuqaiq, Saudi Arabia 2021
La Marsa, Algeria 2021
Laguna Lake, Philipines 2021
Nemeli, Tamil Nadu, India 2021
Tsong Kwan, Hong Kong 2021
Barka V, Barka, Oman 2021
Jorf Lasfar Phase 2, Jorf Lasfar, Morocco 2021
Anna Nery, Offshore 2021
Jaffna, Northern Province, Sri Lanka 2021
San Diego North RO, United States 2021, RO

UHP Expansion, Qatar, Other / Unknown
UHP Expansion, Spain , Other / Unknown

Equipment Supplier: Valve Actuators and Control Systems

Drouin WWTP Upgrade, Australia 2021, Other / Unknown
CSP - Toowoomba Regional Council, Australia 2021, Other / Unknown
Farley WTP / Hunter Water, Australia 2021, Other / Unknown
Loganholme Lift Station Dry Well, Australia 2021, Other / Unknown
Luggage Point STP, Australia 2021, Other / Unknown
South Caboolture STP Upgrade, Australia 2021, Other / Unknown
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Utilita Goodna WWTP - H2, Australia 2021, Other / Unknown
Almoayyed Al Ezzel, Bahrain 2021, Other / Unknown
Ashbridges Bay Treatment Plant Upgrade, Canada 2021, Other / Unknown
Bonnybrook WWTP Fog Receiving Facility, Canada 2021, Other / Unknown
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City Of Olathe WWTP, United States 2021, Other / Unknown
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Dupage County Upgrade Project, United States 2021, Other / Unknown

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 Algeria PF139768, Algeria, Other / Unknown
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Ra's az Zawr, Kuwait 2013, 486,400 m³/d MED

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Reliance, Jamnagar, Gujarat, India 2013, 72,000 m³/d MED
Tianjin SDIC, Tianjin, China 2013, 200,000 m³/d MED

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Doha (Kuwait) SWRO, Kuwait City, Kuwait 2016, 227,300 m³/d RO
Changi II NEWater plant, Singapore 2015, 228,000 m³/d RO
Rizal WTP, Province of Rizal, Philippines 2015, 50,000 m³/d RO
Jamnagar Refinery J3 expansion, India 2013, 168,000 m³/d RO
Carlsbad SWRO, United States 2012, 189,250 m³/d RO

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Al Khobar, Khobar, Saudi Arabia 2021, 210,000 m³/d RO
Shoaiba Desalination Plant, Shoaiba, Saudi Arabia 2018, 450,000 m³/d MSF
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Jubail-2, Saudi Arabia 2023, 1,000,000 m³/d RO
Safi Mobile, Morocco 2023, RO
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Shoaibah 5, Saudi Arabia 2022, 600,000 RO
Jubail 3B, Saudi Arabia 2022, 400,000 RO
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Ras Laffan, Qatar 2022, 165,000 m³/d RO
KPRC, Iran 2022, 80,000 m³/d RO
Jaffna, Sri Lanka 2022, 41,000 RO
Jorf Lasfar Expansion, Morocco 2022, 20,000 RO
Soreq 2, Israel 2021, 545,000 RO
Ensenada Expansion, Mexico 2021, 10,000 RO
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Tseung Kwan O SWRO, Hong Kong 2021, 135,000 m³/d RO
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 Sadara SWRO, Saudi Arabia 2013, 178,560 m³/d RO
 Angamos SWRO, Chile 2013, 19,200 m³/d RO
 Al Ghubrah IWP - SWRO, Oman 2012, 190,932 m³/d RO
 Jubail SWRO-4, Saudi Arabia 2012, 100,000 m³/d RO
 Pacific Rubiales Puerto Galan BWRO, Colombia 2012, 79,500 m³/d RO
 Barka I IWPP expansion, Oman 2012, 45,460 m³/d RO
 Taweelah SWRO, Al Taweelah, United Arab Emirates, 900,000 m³/d RO
 Rabigh-3 SWRO, Rabigh, Saudi Arabia, 600,000 m³/d RO
 Shuqaiq-3 SWRO, Al Shuqaiq, Saudi Arabia, 450,000 m³/d RO
 Agadir SWRO, Agadir, Morocco, 450,000 m³/d RO
 Umm Al Houli SWRO, Doha, Qatar, 284,000 m³/d RO
 Fujairah SWRO, United Arab Emirates, 284,000 m³/d RO
 Zhou Shan SWRO, Zoushan, Zhejiang Province, China, 283,000 m³/d RO
 Al Khobar SWRO, Al Khobar, Saudi Arabia, 210,000 m³/d RO
 Almeria-Almanzora, Spain, 200,000 m³/d RO
 Melilla SWRO, Spain, 200,000 m³/d RO
 Ceuta SWRO, Spain, 200,000 m³/d RO
 Port Said SWRO, Port Said, Egypt, 150,000 m³/d RO
 Beckton London BWRO, United Kingdom, 150,000 m³/d RO
 Fujairah I Expansion SWRO, United Arab Emirates, 136,000 m³/d RO
 Duba SWRO, Duba, Saudi Arabia, 125,000 m³/d RO
 Salalah IWP SWRO, Salalah, Oman, 113,500 m³/d RO
 Alicante I SWRO, Spain, 100,000 m³/d RO
 Talara SWRO, Talara, Peru, 86,400 m³/d RO
 Nasr SWRO, Egypt, 80,000 m³/d RO
 Alicante II SWRO, Spain, 64,000 m³/d RO
 Delta de la Tordera SWRO, Spain, 62,000 m³/d RO
 Valle de Copiapó SWRO, Chile, 54,000 m³/d RO
 Al Zawrah SWRO, United Arab Emirates, 45,000 m³/d RO
 Oropesa SWRO, Spain, 41,000 m³/d RO
 New Mansoura, Mansoura, Egypt, 40,000 m³/d RO
 Provisur SWRO, Lima, Peru, 35,000 m³/d RO
 Kaec SWRO, King Abdullah Economic City, Saudi Arabia, 30,000 m³/d RO
 Djibuti SWRO, Djibouti City, Republic of Djibouti, 22,000 m³/d RO
 Zhou Shan SWRO, Zhoushan, Zhejiang Province, China, 20,000 m³/d RO
 Lanzarote-4 SWRO Expansion, Spain, 20,000 m³/d RO

Las Palmas SWRO, Spain, 20,000 m³/d RO
 AGAMOS SWRO, Chile, 19,200 m³/d Other / Unknown
 Alpha SWRO Expansion, Sharja, United Arab Emirates, 10,000 m³/d RO
 Bernice SWRO, Port Bernice, Egypt, 10,000 m³/d RO
 Al Saad BWRO, Saudi Arabia, Other / Unknown
 Fujairah SWRO, United Arab Emirates, 284,000 m³/d RO
 Almeria-Almanzora, Spain, 200,000 m³/d RO
 Melilla SWRO, Spain, 200,000 m³/d RO
 Beckton London BWRO, United Kingdom, 150,000 m³/d RO
 Fujairah I Expansion SWRO, United Arab Emirates, 136,000 m³/d RO
 NASR SWRO, Egypt, 80,000 m³/d RO
 Alicante II SWRO, Spain, 64,000 m³/d RO
 Delta de la Tordera SWRO, Spain, 62,000 m³/d RO
 Valle de Copiapó SWRO, Chile, 54,000 m³/d RO
 Al Zawrah SWRO, United Arab Emirates, 45,000 m³/d RO
 Las Palmas SWRO, Spain, 20,000 m³/d RO
 Alpha SWRO Exp., Sharja, United Arab Emirates, 10,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Valves

Jubail 3B IWP SWRO Plant, Jubail, Saudi Arabia 2023, 570,000 m³/d RO
 Laguna Lake DWTP, Muntinlupa, Philippines 2023, 150,000 m³/d RO
 Desaladora De Collahuasi, Puerto Patache, Chile 2023, 90,000 m³/d RO
 Shuqaiq 4 Desalination Plant, Shuqaiq, Saudi Arabia 2022, 400,000 m³/d RO
 North Field Expansion Project EPC-1, Ras Lafan, Qatar 2022, 279,000 m³/d RO
 Shoaiba 1 Desalination Plant, Shuaiba, Saudi Arabia 2022, 250,000 m³/d RO
 Tseung Kwang O Desalination Plant, Tseung Kwang O, China 2022, 135,000 m³/d RO
 Al Khobar 2 Desalination Plant, Al Khobar, Saudi Arabia 2021, 600,000 m³/d RO
 Shuqaiq 3 Desalination Plant, Shuqaiq, Saudi Arabia 2020, 450,000 m³/d RO
 Nuweibaa Desalination Plant, Nuweibaa, Egypt 2020, 15,000 m³/d RO
 Atm Mojave, Mojave, United States 2020, 6,000 m³/d RO
 Al Khobar 1 Desalination Plant, Al Khobar, Saudi Arabia 2019, 210,000 m³/d RO
 Jebel Ali Power Station Desalination Plant, Jebel Ali, United Arab Emirates 2019, 182,000 m³/d RO
 Atacama Desalination Plant, Atacama, Chile 2019, 38,880 m³/d RO
 El-Alamein Desalination Plant, El-Alamein, Egypt 2018, 150,000 m³/d RO
 Fosterville Gold Mine, Fosterville, Australia 2018, 2,000 m³/d RO

Norte Iii Combined Cycle Plant, Ciudad Juarez, Mexico 2018, 1,300 m³/d RO
 Tuas III Desalination Plant, Singapore 2017, 136,000 m³/d RO
 Putatán Desalination Plant, Putatán, Philippines 2017, 100,000 m³/d RO
 Djerba Desalination Plant, Djerba, Tunisia 2017, 50,000 m³/d RO
 Solana Generating Station, Gila Bend, United States 2017, 14,000 m³/d RO
 Province Of Bartle Water Treatment Plant, Bartle, Cuba 2017, 8,000 m³/d RO
 Amandi II Combined Cycle Power Plant Of 192MW, Takoradi, Ghana 2017, 2,600 m³/d RO
 Umm Al Houll Power Iwpp, Umm Al Houll, Qatar 2016, 284,000 m³/d RO
 Mahé Desalination Plant, Mahé, Seychelles 2016, 16,000 m³/d RO
 Bahia De Alcudia Desalination Plant, Bahia De Alcudia, Spain 2016, 12,000 m³/d RO
 Formentera Desalination Plant, Formentera, Spain 2016, 5,000 m³/d RO
 Ras Abu Fontas A3 Ro Plant, Ras Abu Fontas, Qatar 2015, 136,000 m³/d RO
 Mostaganem Desalination Plant, Mostaganem, Algeria 2015, 100,000 m³/d RO
 Lanzarote Iv Desalination Plant, Lanzarote, Spain 2015, 30,000 m³/d RO
 Ensenada Desalination Plant, Ensenada, Mexico 2015, 21,600 m³/d RO
 Fujairah Desalination Plant, Fujairah, United Arab Emirates 2014, 135,000 m³/d RO
 Al Jubail Desalination Plant, Al Jubail, Saudi Arabia 2014, 100,000 m³/d RO
 Tènés Desalination Plant, Tènés, Algeria 2013, 200,000 m³/d RO
 Campo De Dalias Desalination Plant, Campo De Dalias, Spain 2013, 129,600 m³/d RO
 Scm Sierra Gorda Ro Plant, Sierra Gorda, Chile 2013, 52,000 m³/d RO
 Via Maris Desalination Plant, Palmahim, Israel 2012, 123,000 m³/d RO
 Antofagasta Desalination Plant, Antofagasta, Chile 2012, 45,000 m³/d RO
 San Antonio Desalination Plant, San Antonio, Spain 2012, 17,500 m³/d RO
 Copiapó Desalination Plant, Copiapó, Chile 2012, 17,000 m³/d RO
 Ibiza Desalination Plant, Ibiza, Spain 2012, 5,500 m³/d RO
 Al Lakbi Desalination Plant, Al Lakbi, Oman 2012, 500 m³/d RO
 Iria Mare Water Treatment Plant, Nafplio, Greece 2012, 200 m³/d RO
 Tuvalu Desalination Plant, Tuvalu 2012, 65 m³/d RO

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Equipment Supplier: Valves

Gelundaluo, China 2019, RO
 Maldives 2019, 12,000 m³/d RO
 Sorek, Israel 2018, 624,000 m³/d RO
 Escondida Ext., Chile 2018, 216,000 m³/d RO
 Quebrada Blanca, Chile 2018, 140,000 m³/d RO
 Jurong, Singapore 2018, 137,000 m³/d RO
 Ras Shuqueir, Red Sea, Egypt 2018, 45,000 m³/d RO
 Guogeng Steel, Hebei, China 2018, 30,000 m³/d RO
 Leizhou, Guandong, China 2018, 8,500 m³/d RO
 Minguru, Indonesia 2018, 4,800 m³/d RO
 Jingtang Steel, Hebei, China 2018, 4,800 m³/d RO
 Lumaila, Zheijang, China 2018, 4,000 m³/d RO
 Kaibar, Indonesia 2018, 1,500 m³/d RO
 Las Palmas, Las Palmas de Gran Canaria, Spain 2018, RO
 Burton, Australia 2018, RO
 Tenerife, Spain 2018, RO
 Elmasa, Canarias, Spain 2018, RO
 Marina East, Singapore 2017, 439,000 m³/d RO
 Tenes, Algeria 2017, 200,000 m³/d RO
 Honaine, Algeria 2017, 100,000 m³/d RO
 Valdelentisco Refurbish, Murcia, Spain 2017, 70,000 m³/d RO
 Buritica, Colombia 2017, 68,000 m³/d RO
 KAIA (King Abdulaziz International Airport Jeddah), Saudi Arabia 2017, 35,000 m³/d RO
 Adeje, Canary Islands, Spain 2017, 30,000 m³/d RO
 Phoenix, United States 2017, 20,000 m³/d RO
 Rizhao, Shandong, China 2017, 20,000 m³/d RO
 TJB, Tanjung, Indonesia 2017, 20,000 m³/d RO
 Emal, United Arab Emirates 2017, 17,000 m³/d RO
 Black Sea, Russia 2017, 11,000 m³/d RO
 Dalian ERRE, Lianing, China 2017, 8,500 m³/d RO
 Yantai Bajiao Power Plant, Shandong, China 2017, 8,500 m³/d RO
 Janubio, Spain 2017, 7,500 m³/d RO
 Baitong, Indonesia 2017, 5,000 m³/d RO
 Zubair, Iraq 2017, 3,000 m³/d RO
 Nevada, United States 2017, RO
 Qurayyat, Oman 2016, 500,000 m³/d RO
 Jamnagar, India 2016, 200,000 m³/d RO
 Dongjiakou, Shandong, China 2016, 100,000 m³/d RO
 Hamriyah, Sharjah, United Arab Emirates 2016, 90,000 m³/d RO
 Sohar Refinery Plant, Oman 2016, 90,000 m³/d RO
 Sur, Oman 2016, 80,000 m³/d RO
 Sarb, Dubai, United Arab Emirates 2016, 50,000 m³/d RO

- Gelundaluo, China 2019, RO
 Maldives 2019, 12,000 m³/d RO
 Qasim, Pakistan 2016, 15,000 m³/d RO
 Carboneras, Cartagena, Spain 2016, 10,000 m³/d RO
 Baolihua Nuclear Plant, Guandong, China 2016, 10,000 m³/d RO
 Shidaowan Nuclear Plant, Shandong, China 2016, 8,500 m³/d RO
 Formentera, Spain 2016, 5,000 m³/d RO
 Zubair, Iraq 2016, 3,000 m³/d RO
 Arizona, United States 2016, 3,000 m³/d RO
 Takalar, Sulawesi, Indonesia 2016, 2,500 m³/d RO
 Canarias, Spain 2016, RO
 Herjimar, Spain 2016, RO
 Barka, Oman 2015, 136,660 m³/d RO
 Ras Al Khaimah, United Arab Emirates 2015, 100,000 m³/d RO
 Jamnagar, India 2015, 96,000 m³/d RO
 Sur, Oman 2015, 51,000 m³/d RO
 Las Americas, Canary Islands, Spain 2015, 15,000 m³/d RO
 Aquatech (SARB), India 2015, 15,000 m³/d RO
 Santa Barbara, California, United States 2015, 10,550 m³/d RO
 Dianqui, China 2015, 10,000 m³/d RO
 Zubair, Iraq 2015, 2,712 m³/d RO
 Laayoune, Morocco 2014, 550,000 m³/d RO
 Escondida, Chile 2014, 218,000 m³/d RO
 Taizhou 2nd Plant, Zhejiang, China 2014, 15,000 m³/d RO
 Philippines PCPC, Iloilo, Philippines 2014, 2,500 m³/d RO
 Pall, Australia 2014, RO
 Sydney (Veolia), Australia 2014, RO
 Carlsbad, California, United States 2013, 378,544 m³/d RO
 Jorf Lasfar, Morocco 2013, 222,200 m³/d RO
 Rabigh 2, Saudi Arabia 2013, 192,000 m³/d RO
 Sadara, Jubail, Saudi Arabia 2013, 173,000 m³/d RO
 Jorf Las Far, Morocco 2013, 75,800 m³/d RO
 Al-Zawrah, Ajman, United Arab Emirates 2013, 45,500 m³/d RO
 Gwangyang SWRO, China 2013, 30,200 m³/d RO
 Qurayyat IPP, Saudi Arabia 2013, 17,352 m³/d RO
 Tenerife Oeste, Spain 2013, 14,000 m³/d RO
 Guía de Isora, Spain 2013, 14,000 m³/d RO
 Sanmen nuclear Power Plant, Zhejiang, China 2013, 5,000 m³/d RO
 Yanhu Dafeng, Jiangsu, China 2013, 5,000 m³/d RO
 Al taweelah, United Arab Emirates 2013, 1,584 m³/d RO
 NCC SWRO Project, South Korea 2012, 431,870 m³/d RO
 Ashdod, Israel 2012, 273,972 m³/d RO
 Tarragona Power Plant, Llobregat, Spain 2012, 180,000 m³/d RO
 Jubail, Saudi Arabia 2012, 100,000 m³/d RO
 Sur, Oman 2012, 80,000 m³/d RO
 Ghallilah, United Arab Emirates 2012, 68,000 m³/d RO
 Jubail, Saudi Arabia 2012, 58,500 m³/d RO
 Al Zawrah, United Arab Emirates 2012, 45,500 m³/d RO
 Al Gubrah, Barka, Oman 2012, 45,460 m³/d RO
 Minera Candelaria, Cerro Padrones, Chile 2012, 43,200 m³/d RO
 Mantoverde, Chile 2012, 25,920 m³/d RO
 Tuticorin, India 2012, 24,480 m³/d RO
 Wu sha shan, Zhejiang, China, China 2012, 22,000 m³/d RO
 Haiyang Nuclear Power Plant, China 2012, 16,800 m³/d RO
 CEPESA Refinery Tenerife, Spain 2012, 14,000 m³/d RO
 Laayoune, Morocco 2012, 13,000 m³/d RO
 Paraquita Bay, Virgin Islands, United States 2012, 10,400 m³/d RO
 Sierra Gorda, Chile 2012, 8,800 m³/d RO
 Tan Tan, Morocco 2012, 8,600 m³/d RO
 Sanmen nuclear Power Plant, China 2012, 5,657 m³/d RO
 Yanhu Haina Chemical Plant, Qinghai, China 2012, 5,500 m³/d RO
 HES-P11151, Shanghai, China 2012, 4,800 m³/d RO
 Carboneras Ext., Almeria, Spain 2012, RO
 Pembroke, Malta 2012, RO
 Formosa, Taiwan, 105,000 m³/d RO
 Las Palmas III, Las Palmas de Gran Canaria, Spain, RO

Pumps, ERDs & Pressure Vessels

Selected references since 2012 from companies supplying pumps, energy recovery devices (ERDs) or pressure vessels to desalination or reuse projects.

Legend

- (D)** Desalination **(R)** Wastewater reuse

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Megacities such as Atlanta, Barcelona, Beijing, Dubai, Hong Kong, Riyadh, Santiago and Singapore already rely on leading-edge ANDRITZ water management technologies when it comes to providing a safe and affordable potable water supply for millions of people.

ANDRITZ is not only a world-leading OEM in the hydropower sector, but has also been building centrifugal pumps and separation equipment and systems for more than 170 years. In fact, our flexible packages covering seawater intake, pumping, screening, and dewatering help dozens of major cities worldwide to continuously safeguard their water supply at significantly lower operating costs. Our reliable technologies support all stages in the process chain. We provide the complete centrifugal pump portfolio, water intake screen systems, sludge and brine treatment systems, and technical support for efficient and economic desalination, especially for Reverse Osmosis (RO) plants to convert seawater into potable water or for irrigation or industrial purposes. Depending on the level of salinity and temperature, corrosion-resistant technologies are available, from Duplex to Super Duplex steel cast in ANDRITZ's foundry.

Our quality and high-efficiency products, as well as our understanding of customer requirements, have made us a preferred partner for pumping and separation solutions worldwide. We offer everything from a single source – from development work, model tests, engineering design, casting, manufacture, and project management, to after-sales service and training, as well as a vast portfolio of Industrial IoT solutions for optimized plant operation.

SELECTED REFERENCES

Equipment Supplier: Pumps

- Cap Blanc, Algeria 2023, 100,000 m³/d RO
- Tianjin Xiandra (phase 1), China 2023, 150,000 m³/d RO

- Safi, Morocco 2023, 120,000 m³/d RO
- DaeSan SWRO, South Korea 2022, 100,000 m³/d RO
- Aconcagua, Chile 2022, 86,400 m³/d RO
- Red Sea SWRO, Saudi Arabia 2022, 65,000 m³/d RO
- Sembo, Indonesia 2022, 40,000 m³/d RO
- Bahrain Desalination Plant, Bahrain 2022, 6,000 m³/d RO
- Fujairah, United Arab Emirates 2022, 3,500 m³/d RO
- Jubail 3b IWP, Al-Jubail, Saudi Arabia 2021, 570,000 m³/d RO
- Laguna Lake DWTP, Muntinlupa, Philippines 2021, 150,000 m³/d RO
- East Bay Drinking Water Treatment Plant, Manila, Philippines 2021, 50,000 m³/d RO
- Sorek 2, Israel 2020, 670,000 m³/d RO
- Zhoushan Phase II Desalination Project, Zhejiang, China 2020, 200,000 m³/d MED
- Zhejiang Petrochemical Desalination Project, China 2020, 200,000 m³/d MED
- Tangshan Seaport Desalination, China 2020, 30,000 m³/d RO
- Qingdao Baifa RO Phase 2, China 2020, 10,000 m³/d RO
- Al Khobar SWRO, Saudi Arabia 2019, 210,000 m³/d RO
- Quebrada Blanca Phase 2, Iquique, Chile 2019, 106,400 m³/d RO
- SULB 4.5 MLD Desalination Plant, Bahrain 2019, 5,000 m³/d RO
- Shougang Jingtang Phase II Desalination Project, Jingtang, Hebei, China 2018, 20,000 m³/d RO
- Hassyan Desalination Project, Dubai, United Arab Emirates 2017, 100,000 m³/d RO
- Shengli-Oil, Karamay, Xinjian, China 2015, 5,000 m³/d MED
- Zhoushan Liuheng Desalination P3, Liuheng, Zhejiang, China 2011, 80,000 m³/d RO
- ShengSi Desalination P5, Zhejiang, Hebei, China 2009, 600 m³/d RO
- Tangshan Seawater Desalination, Hebei, China, 100,000 m³/d RO

Equipment Supplier: Brine Dewatering Centrifuges

- Taweelah, Abu Dhabi, United Arab Emirates 2018, 909,000 m³/d RO
- Qurayyat IWP, Oman 2016, 200,000 m³/d RO
- Barka SWRO, Muscat, Oman 2016, 120,000 m³/d RO
- Mirfa IWPP, Abu Dhabi, United Arab Emirates 2014, 85,000 m³/d RO
- Marafiq Sadara Desalination Plant, Jubail, Saudi Arabia 2013, 800,000 m³/d RO
- Al Gubrah Desalination plant, Muscat City, Oman 2013, 191,000 m³/d RO
- Barka 4 SWRO, Muscat City, Oman 2009, 281,000 m³/d RO
- Barka 2 SWRO, Muscat City, Oman 2007, 120,000 m³/d RO

Equipment Supplier: Brine Dewatering Centrifuges and Pumps

- Quebrada Blanca, Chile 2018, 74,000 m³/d RO

Equipment Supplier: Filter Press

Tseung Kwan O, Hong Kong 2020, 135,000 m³/d RO

Equipment Supplier: Fine Active Screens and Brine Dewatering Centrifuges

Victorian Desalination Plant, Dalyston, Southern Victoria, Australia 2010, 150,000 m³/d RO

Marina Baja Desalination Plant, Mutxamel, Spain 2010, 50,000 m³/d RO

Tanjung Jati B SWRO, Indonesia 2010, 20,000 m³/d RO

Kumell, Sydney, Australia 2008, 250,000 m³/d RO

Fujairah SWRO, United Arab Emirates 2007, 136,500 m³/d RO

Aguas del Ter Llobregat Desalination, Barcelona, El Prat del Llobregat, Spain, 200,000 m³/d RO

Equipment Supplier: Passive Intake Screens

Collahuasi SWRO, Chile 2022, 100,000 m³/d RO

SUR Desalination Plant, Oman 2014, 29,000 m³/d RO

Al Zawrah Desalination plant, Ajman, United Arab Emirates 2012, 45,560 m³/d RO

Equipment Supplier: Pretreatment

Chile 2022, 404,000 m³/d RO

United Arab Emirates 2021, 158,000 m³/d RO

United Arab Emirates 2020, 31,000 m³/d RO

United Arab Emirates 2018, 31,000 m³/d RO

Oman 2017, RO

Oman 2014, 29,000 m³/d RO

Oman 2013, 720,000 m³/d RO

United Arab Emirates 2012, 158,000 m³/d RO

Oman 2011, 23,000 m³/d RO

United Kingdom 2008, 823,000 m³/d RO

United Arab Emirates 2004, 384,000 m³/d RO

United Arab Emirates 2004, 360,000 m³/d RO

Advanced Water Technologies, Al Khafji, Saudi Arabia 2017, 60,000 m³/d RO

Kfar Massarik, Northern coastal plain, Israel 2017, 13,500 m³/d RO

Mogan, Gran Canaria, Spain 2016, 1,800 m³/d RO

Shat Al Basra, Iraq 2014, 9,600 m³/d RO

Bahrain 2014, 4,500 m³/d RO

Antofagasta, Chile 2013, 216,000 m³/d RO

Aragua, Gran Canaria, Spain 2013, 10,000 m³/d RO

Pepsico Arabia bottling plant, Saudi Arabia 2013, 1,056 m³/d RO

Pacific Rubiales Energy, Puerto Gaitán, Meta, Colombia 2012, 79,500 m³/d RO

Mantoverde, Corral de los Chanchos Bay, Chile 2012, 10,368 m³/d RO

Boleo, Santa Rosalia, Mexico 2012, 3,785 m³/d RO

Gold Coast, Queensland, Australia, 125,000 m³/d RO

Al Jubail phase 4, Saudi Arabia, 103,500 m³/d

El Agodor, Toledo, Spain, 58,400 m³/d RO

Trekkojje, Swakopmund, Namibia, 55,000 m³/d RO

Larnaca, Cyprus, 54,000 m³/d RO

Yuhuan Power Plant, Zhejiang, China, 36,000 m³/d RO

Medupi Power Station, South Africa, 30,000 m³/d

Emirates Steel, United Arab Emirates, 28,800 m³/d

Ma'agan Michael, Israel, 27,000 m³/d RO

Suminostros, Algeria, 25,500 m³/d

Moni, Cyprus, 22,000 m³/d

Pal Technology Services, United Arab Emirates, 20,900 m³/d

Emalahleni, South Africa, 20,000 m³/d RO

Consol Energy, United States, 18,900 m³/d

Point Fortin, Trinidad, 17,400 m³/d

Costa del Sol, Spain, 16,000 m³/d

Aguas Ponta Preta, Cabo Verde, 15,000 m³/d

PTOI Placilla, Chile, 14,000 m³/d

NieuWater Emmen, Netherlands, 13,200 m³/d

Tifert, Tunisia, 12,000 m³/d RO

Hilton Head, United States, 11,000 m³/d

Doolittle, United States, 11,000 m³/d

Owassa, United States, 11,000 m³/d

Aguas Porto Novo, Cabo Verde, 10,000 m³/d

Curaçao Water Plant, Curaçao, 9,400 m³/d

Power Station La Spezia, Italy, 9,000 m³/d

Estate Richmond Power Plant, St. Croix, 8,325 m³/d

Randolph E Harley Power Plant, St. Thomas, 8,300 m³/d

Engelse Werk, Netherlands, 8,250 m³/d

C.C.C. Campo de Gibraltar, Gibraltar, 8,000 m³/d

South Coast Steam, United States, 7,500 m³/d

Paguera, Malaga, Spain, 7,500 m³/d

Donna, United States, 7,500 m³/d

Baiji Power Plant, Iraq, 7,100 m³/d

Lei Ji Power Plant, China, 5,000 m³/d

Reliance, Algeria, 4,600 m³/d

Las Galletas, Spain, 4,000 m³/d

Pepsico Baghdad, Iraq, 3,900 m³/d

New York Power, United States, 3,750 m³/d

SWRO, Libya, 2,750 m³/d

SWRO, Libya, 2,500 m³/d

Masar Alam, Egypt, 2,500 m³/d

Bir Shalateyn, Egypt, 2,000 m³/d

La Ranilla, Spain, 2,000 m³/d

Al Dibba bottling plant, United Arab Emirates, 1,500 m³/d

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SELECTED REFERENCES

Equipment Supplier: Pressure Vessels

OCP Desalination Project Phase 2, Jorf Lasfar, Morocco 2022, 30,000 m³/d RO, Morocco 2022, 30,000 m³/d RO

Expansion Atabal, Malaga, Spain 2022, 16,500 m³/d RO

textile factory, Dominican Republic 2022, 10,000 m³/d RO

Expansion Cobre Cruces, Sevilla, Spain 2022, 4,000 m³/d RO

Inter Atlantic, Scotland, U.K. 2020, 5,000 m³/d RO

Expansion PTOI Placilla, Copiapo, Chile 2018, 7,000 m³/d RO



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- ANDRITZ pumps, made of especially resistant duplex steel, ensure highest efficiencies, a long service life and economic plant operation.
- ANDRITZ decanter centrifuges and filter presses guarantee cost-efficient, continuous operation with minimal sludge mass for safe disposal.

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Brabant Water, Netherlands, 1,200 m³/d
EMPOWER Dubai Health Care City, United Arab Emirates, 1,000 m³/d
Al Yassat Island, United Arab Emirates, 750 m³/d RO
Mobile water treatment, Iraq, 500 m³/d RO
Containerised SWRO, Tunisia, 500 m³/d RO
Containerised SWRO, Oman, 500 m³/d RO
Ajman Labour Camp, United Arab Emirates, 400 m³/d RO
Karachi Industrial, Pakistan, 400 m³/d RO
Sharjah Labour Camp, United Arab Emirates, 400 m³/d RO
Ajman Labour Camp, United Arab Emirates, 400 m³/d RO
Um al Quwain Labour Camp, United Arab Emirates, 400 m³/d RO
Al-Saad Irrigation, United Arab Emirates, 325 m³/d RO
Al Ain Irrigation, United Arab Emirates, 300 m³/d RO
Ras al Khaimah Irrigation, United Arab Emirates, 300 m³/d RO
Containerised SWRO, Kenya, 300 m³/d RO
Abu Samra Irrigation, United Arab Emirates, 170 m³/d RO
Containerised SWRO, Kenya, 60 m³/d RO

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Danfoss is a global leader in mechanical and electronic innovations that help save energy. Around the world and across a broad spectrum of industries and applications, our many solutions make modern life easier and enable our customers to pursue their own journeys towards decarbonization.

As part of the Danfoss Group, Danfoss High Pressure Pumps is a fast-growing division that designs and produces energy-efficient high-pressure pumps and energy recovery devices. With over 22,000 installations worldwide, our innovative products help provide an increasingly thirsty world with fresh water through seawater reverse osmosis (SWRO) with industry-leading energy efficiency and reliability for unparalleled OPEX and TCO. In addition to desalination, our axial piston high-pressure pumps also save energy in wastewater treatment (ZLD), humidification, firefighting, and ultra-pure water cleaning application

In total, the Danfoss Group employs over 40,000 people to serve customers in more than 100 countries. Whether working in our 95 factories in 27 countries, driving innovation in our R&D facilities in four continents, or working closely with our partners to understand their needs, we share the same purpose.

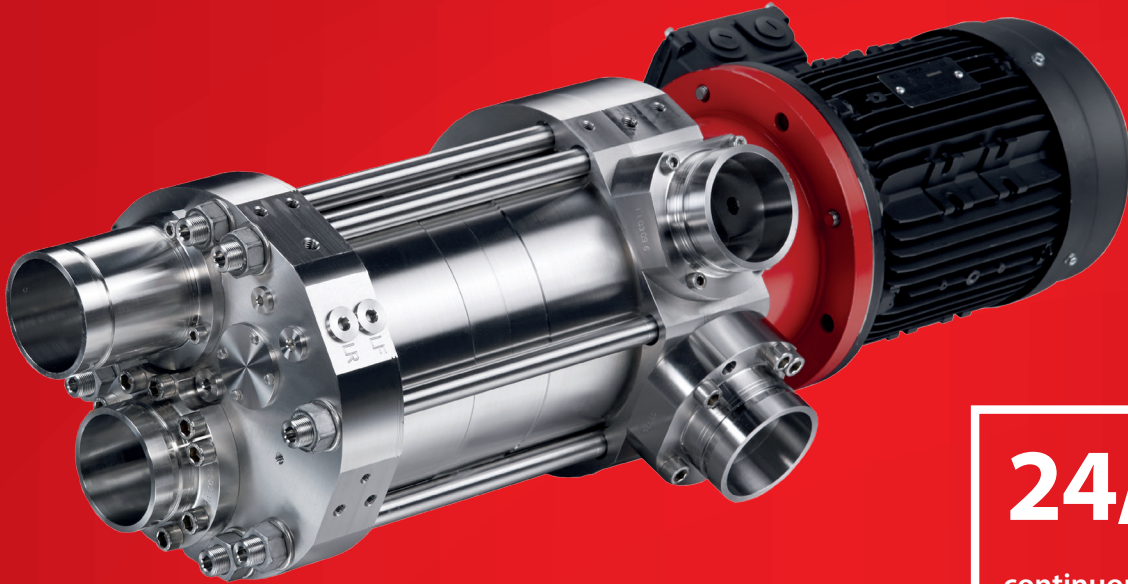
We engineer tomorrow to build a better future, become our customers' preferred decarbonization partner, and create long-term value for our customers and employees.

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Equipment Supplier: Pumps and Energy Recovery

Indonesia 2023, 28,800 m³/d RO
Morocco 2023, 20,000 m³/d RO
Indonesia 2023, 7,650 m³/d RO
Italy 2023, 7,000 m³/d RO
Spain 2023, 4,000 m³/d RO
Spain 2023, 2,400 m³/d RO
Gran Canaria, Spain 2023, 2,000 m³/d RO
Taiwan 2022, 12,000 m³/d RO
Hamriya, Dubai, United Arab Emirates 2022, 11,030 m³/d RO
Morocco 2022, 5,400 m³/d RO
Norway 2022, 5,000 m³/d RO
Mauritius 2022, 5,000 m³/d RO
Kenya 2022, 5,000 m³/d RO
Istanbul, Turkey 2022, 3,150 m³/d RO
Morocco 2022, 2,700 m³/d RO
Taiwan 2021, 7,200 m³/d RO
Taiwan 2021, 6,000 m³/d RO
Canary Island, Spain 2021, 6,000 m³/d RO
Taiwan 2021, 6,000 m³/d RO
Norway 2021, 5,200 m³/d RO
Norway 2021, 5,000 m³/d RO
Algeria 2021, 2,660 m³/d RO
Saudi Arabia 2021, 2,000 m³/d RO
Turkey 2021, 1,200 m³/d RO
Turkey 2021, 1,000 m³/d RO
Caribbean, Cuba 2020, 6,000 m³/d RO
Fuerteventura, Spain 2020, 2,000 m³/d RO
Spain 2020, 1,200 m³/d RO
Hawaii, United States 2020, 1,200 m³/d RO
Bahamas 2020, 1,135 m³/d RO
Peru 2019, 5,000 m³/d RO
Maldives 2019, 2,000 m³/d RO
Pakistan 2019, 1,800 m³/d RO
Pakistan 2019, 1,800 m³/d RO
Pakistan 2019, 1,800 m³/d RO
Pakistan 2019, 1,800 m³/d RO
Turkmenistan 2019, 1,296 m³/d RO
Turkmenistan 2019, 1,296 m³/d RO
Turkmenistan 2019, 1,296 m³/d RO
Curaçao 2019, 1,250 m³/d RO
Turkmenistan 2019, 1,200 m³/d RO
Turkmenistan 2019, 1,200 m³/d RO
Turkmenistan 2019, 1,200 m³/d RO
Spain 2019, 1,000 m³/d RO
Turkey 2019, 1,000 m³/d RO
Turkey 2019, 1,000 m³/d RO
Tasmania, Australia 2018, 16,800 m³/d RO
Egypt 2018, 12,000 m³/d RO
Brindisi, Italy 2018, 9,600 m³/d RO
India 2018, 7,000 m³/d RO

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Ghana 2018, 4,125 m³/d RO
 Abu Dhabi, United Arab Emirates 2018, 4,000 m³/d RO
 Caribbean, Bahamas 2018, 3,000 m³/d RO
 Iran 2018, 3,000 m³/d RO
 Iran 2018, 3,000 m³/d RO
 Tasmania, Australia 2018, 1,700 m³/d RO
 Tasmania, Australia 2018, 1,700 m³/d RO
 Italy 2017, 14,800 m³/d RO
 South Africa 2017, 12,000 m³/d RO
 Philippines 2017, 7,000 m³/d RO
 Mauritania 2017, 6,000 m³/d RO
 India 2017, 2,184 m³/d RO
 South Africa 2017, 2,000 m³/d RO
 Tasmania, Australia 2017, 1,700 m³/d RO
 Casablanca, Morocco 2020, 1,275 m³/d RO
 Dubai, United Arab Emirates 2017, 1,200 m³/d RO
 Argentina 2017, 1,000 m³/d RO
 Egypt 2017, 1,000 m³/d RO
 Philippines 2017, 1,000 m³/d RO
 Gran Canaria, Spain 2016, 2,600 m³/d RO
 Saudi Arabia 2016, 1,000 m³/d RO
 South Korea 2016, 1,000 m³/d RO
 Curaçao 2015, 16,000 m³/d RO
 Aruba 2015, 11,000 m³/d RO
 Dubai, United Arab Emirates 2015, 2,000 m³/d RO
 Chile 2014, 8,600 m³/d RO
 Rodrigues Island, Mauritius 2014, 2,000 m³/d RO
 Egypt 2014, 1,845 m³/d RO
 Saudi Arabia 2014, 1,200 m³/d RO
 Norway 2013, 3,900 m³/d RO
 Oman 2013, 1,700 m³/d RO
 Oman 2013, 1,200 m³/d RO
 Taiwan 2012, 2,100 m³/d RO
 South Korea 2012, 1,000 m³/d RO
 Iran 2010, 1,200 m³/d RO
 Mexico, 3,000 m³/d RO

Equipment Supplier: Pumps

Canary Island, Spain 2023, 7,500 m³/d RO
 Spain 2023, 2,500 m³/d RO
 Philippines 2022, 20,000 m³/d RO
 Saudi Arabia 2022, 3,600 m³/d RO
 Cyprus 2020, 12,000 m³/d RO
 Malta 2020, 8,000 m³/d RO
 Caribbean 2020, 6,000 m³/d RO
 South Africa 2020, 4,732 m³/d RO
 Spain 2020, 2,000 m³/d RO
 Spain 2020, 1,440 m³/d RO
 Turkey 2019, 600 m³/d RO
 China 2018, 30,000 m³/d RO
 China 2018, 12,000 m³/d RO
 Egypt 2017, 3,600 m³/d RO
 Maldives 2017, 2,000 m³/d RO
 Lanzarote, Spain 2017, 1,250 m³/d RO
 Gran Canaria, Spain 2016, 1,800 m³/d RO
 Bahrain 2015, 3,500 m³/d RO

Dubai, United Arab Emirates 2015, 1,600 m³/d RO
 China 2009, 5,800 m³/d RO

Equipment Supplier: Energy Recovery

Spain 2021, 15,000 m³/d RO
 Tanzania 2021, 4,800 m³/d RO
 Turkey 2018, 1,200 m³/d RO

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Corso, Algeria 2023, 80,000 m³/d RO
 Sharm El Sheikh, Egypt 2023, 30,000 m³/d RO
 East Matrouh, Egypt 2022, 65,000 m³/d RO
 Reghaia SWRO, Algeria 2022, 60,000 m³/d RO
 Zeralda, La Fontaine, Palm Beach and Bateau Cassé, Algeria 2022, 35,000 m³/d RO
 SWRO Jaffna, Sri Lanka 2021, 24,000 m³/d RO
 Barges x3, United Arab Emirates 2021, 3x 50,000 m³/d RO
 Quebrada Blanca, Chile 2020, 102,360 m³/d RO
 Formosa, Taiwan 2020, RO
 TRSDC SWRO, Saudi Arabia 2020, RO
 SWRO Nuweiba, Egypt 2020, RO
 EDAM Los Cangrejos, Spain 2019, RO
 Kalselteng 2, Indonesia 2019, RO
 El Sokhna, Egypt 2019, RO
 DUBA, Egypt 2019, RO
 Ain Sokhna Ex, Egypt 2019, RO
 Dahab, Egypt 2019, RO
 Ras Sedr 2, Egypt 2019, RO
 Abu Zenima, Egypt 2019, RO
 Ras Sedr 1, Egypt 2019, RO
 Paphos Desal Plant, Cyprus 2019, RO
 IDAM, Curaçao 2018, RO
 KAIA Train 6, Saudi Arabia 2018, RO
 DABAA, Egypt 2018, RO
 Ain Sokhna, Egypt 2018, RO
 IWPP RAK, United Arab Emirates 2018, RO
 KAEC SWRO, Saudi Arabia 2018, RO
 Four Seasons, Egypt 2018, RO
 Ain Sokhna, Egypt 2017, RO
 Masinloc, Philippines 2017, RO
 Central Java CFPP Project, Indonesia 2017, RO
 Al Hamra, United Arab Emirates 2017, RO
 SWRO RAK, United Arab Emirates 2017, RO
 ZOFD SWRO, Iraq 2016, RO

Al Yousr II, Egypt 2016, RO
 Paraquita, British Virgin Islands 2016, RO
 Barka IWP, Oman 2016, RO
 El Toor, Egypt 2016, RO
 Dhekelia-Bosster, Cyprus 2016, RO
 Sal & Sao Vicente, Cabo Verde 2016, RO
 Angamos, Chile 2015, RO
 Oman-sur extension, Oman 2015, RO
 Puerto Rosario, Spain 2015, RO
 Remela 2, Egypt 2015, RO
 Al Yousr, Egypt 2014, RO
 Remela, Egypt 2014, RO
 Gyeongbuk, South Korea 2013, RO
 Sharjah, United Arab Emirates 2013, RO
 U.S. Virgin Islands 2012, RO
 QGC, Australia 2012, RO
 British Virgin Islands 2012, RO
 EG EHC UHDE, Egypt 2012, RO
 Layah, United Arab Emirates 2012, RO
 Caribbean Sea 2012, RO
 Middle East 2012, RO
 Musandam, Oman 2012, RO
 Egypt 2012, RO
 Trinidad and Tobago, 15,000 m³/d RO

Starkos, Brazil 2023, 12,000 m³/d RO
 Indonesian SWRO, Indonesia 2023, 10,000 m³/d RO
 Doolittle BWRO, United States 2023, 9,000 m³/d RO
 Polish, Poland 2023, 8,000 m³/d RO
 Sichuan Longmang, China 2023, 7,000 m³/d RO
 Coromandel SWRO, India 2023, 6,000 m³/d RO
 Peru SWRO, Peru 2023, 6,000 m³/d RO
 Eren, Turkey 2023, 6,000 m³/d RO
 Fong Shang, Taiwan 2023, 5,000 m³/d RO
 5 MLD SWRO, United Arab Emirates 2023, 5,000 m³/d RO
 Jubail II, Al Jubail, Saudi Arabia 2022, 1,000,000 m³/d RO
 North Field, Qatar 2022, 377,000 m³/d RO
 Sfax, Tunisia 2022, 100,000 m³/d RO
 Corso, Algeria 2022, 80,000 m³/d RO
 Yulong, China 2022, 80,000 m³/d RO
 East Matrouh, Marsa Matruh, Egypt 2022, 65,000 m³/d RO
 Mar de Alboran, Alboran Sea, Spain 2022, 60,000 m³/d RO
 Tianwan Plant, Lianyungang, China 2022, 45,600 m³/d RO
 Red Sea, Saudi Arabia 2022, 45,000 m³/d RO
 40 MLD SWRO, Morocco 2022, 40,000 m³/d RO
 OCP SWRO, Morocco 2022, 30,000 m³/d RO
 Aurobindo, India 2022, 25,000 m³/d RO
 20 MLD BOOT, United Arab Emirates 2022, 20,000 m³/d RO
 Morocco SWRO, Morocco 2022, 15,000 m³/d RO
 Mantoverde, Atacama, Chile 2022, 15,000 m³/d RO
 Tibet Plant, Tibet, China 2022, 14,800 m³/d RO
 Membratec Brackish, Switzerland 2022, 13,600 m³/d RO
 Indian Rayon, India 2022, 12,000 m³/d RO
 Aurobindo Vizag, India 2022, 10,000 m³/d RO
 Habas SWRO, Turkey 2022, 10,000 m³/d RO
 Jubail 3A, Al Jubail, Saudi Arabia 2021, 600,000 m³/d RO
 Shoaiba 5, Red Sea, Saudi Arabia 2021, 600,000 m³/d RO
 Jubail 3B, Al Jubail, Saudi Arabia 2021, 570,000 m³/d RO
 Yanbu 4, Yanbu, Saudi Arabia 2021, 450,000 m³/d RO
 Shuqaiq 4, Al Shuqaiq, Saudi Arabia 2021, 400,000 m³/d RO
 Ghubrah, Muscat, Al Gubrah, Oman 2021, 300,000 m³/d RO
 Nemmeli, Chennai, India 2021, 175,000 m³/d RO
 Barka, Oman 2021, 100,000 m³/d RO
 Pertamina, Indonesia 2021, 100,000 m³/d RO
 Qingdao Befesa, China 2021, 80,000 m³/d RO
 El Marsa, Algeria 2021, 60,000 m³/d RO
 Tangshan SWRO, Tangshan, Hebei, China 2021, 50,000 m³/d RO
 Anping WWT, Anping, Taiwan 2021, 42,500 m³/d RO
 Palm Jumeirah, United Arab Emirates 2021, 36,000 m³/d RO
 West Village, New York City, United States 2021, 34,000 m³/d RO
 Melilla, Spain 2021, 34,000 m³/d RO
 Jaffna SWRO, Jaffna, Northern Province, Sri Lanka 2021, 32,000 m³/d RO
 Mobile Plant, Saudi Arabia 2021, 30,000 m³/d RO
 Weihai Huaneng Power, China 2021, 30,000 m³/d RO
 ADASA Norte, Chile 2021, 29,550 m³/d RO
 North Africa, Morocco 2021, 28,000 m³/d RO
 Zeralda, Algiers, Algeria 2021, 25,000 m³/d RO
 Cebu Cordova, Cebu, Philippines 2021, 22,500 m³/d RO
 NCIC, Egypt 2021, 17,500 m³/d RO
 Grasim Vilayat ETP, Vilayat, India 2021, 15,500 m³/d RO
 Mobile Plant, Saudi Arabia 2021, 15,000 m³/d RO
 Pali, Thailand 2021, 12,500 m³/d RO

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Equipment Supplier: Energy Recovery Devices

Mirfa IWP, United Arab Emirates 2023, 545,520 m³/d RO
 Shoaiba, Saudi Arabia 2023, 545,000 m³/d RO
 Bejaia, Algeria 2023, 300,000 m³/d RO
 El Tarf, Algeria 2023, 300,000 m³/d RO
 Western Galilee, Israel 2023, 274,000 m³/d RO
 Collahuasi, Chile 2023, 100,000 m³/d RO
 Tianjin, China 2023, 100,000 m³/d RO
 K-Water, South Korea 2023, 100,000 m³/d RO
 Fortaleza, Brazil 2023, 86,000 m³/d RO
 Anglo America, Chile 2023, 85,000 m³/d RO
 Wanhua SWRO, China 2023, 70,000 m³/d RO
 Reliance Jamnagar, India 2023, 50,000 m³/d RO
 Mamelles, Senegal 2023, 50,000 m³/d RO
 Gangcheng Power Plant, China 2023, 45,000 m³/d RO
 ENCE, Spain 2023, 14,000 m³/d RO
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- JSW Bellary, Ballari, Karnataka, India 2021, 10,500 m³/d RO
 Bou Ismail, Tipasa Province, Algeria 2021, 10,000 m³/d RO
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 Negela SWRO, Egypt 2021, 10,000 m³/d RO
 Rasheed SWRO, Egypt 2021, 10,000 m³/d RO
 Zhejiang Shengsi, China 2021, 10,000 m³/d RO
 Sharm El Sheikh, Egypt 2021, 3,000 m³/d RO
 Soreq, Yavne, Israel 2020, 572,000 m³/d RO
 Jubail, Al Jubail, Saudi Arabia 2020, 420,000 m³/d RO
 Barges, Al Shuqaiq, Saudi Arabia 2020, 150,000 m³/d RO
 Khobar 2, Saudi Arabia 2019, 770,000 m³/d RO
 Shuqaiq, Saudi Arabia 2019, 400,000 m³/d RO
 Facility D Expansion, Qatar 2019, 364,000 m³/d RO
 Chtouka SWRO, Morocco 2019, 275,000 m³/d RO
 AL Dur 2, Bahrain 2019, 240,000 m³/d RO
 Satellite Projects, Saudi Arabia 2019, 238,000 m³/d RO
 Duba, Saudi Arabia 2019, 153,840 m³/d RO
 Sharqiyah IWP, Oman 2019, 80,000 m³/d RO
 Sousse, Tunisia 2019, 50,000 m³/d RO
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 Shandong Lubei, China 2019, 33,340 m³/d RO
 MRPL, India 2019, 32,616 m³/d RO
 Talara, Peru 2019, 31,600 m³/d RO
 Westside BWRO, United States 2019, 26,000 m³/d RO
 Guaymas y Empalmes, Mexico 2019, 18,400 m³/d RO
 Pakistan Lucky SWRO, Pakistan 2019, 15,840 m³/d RO
 Paphos, Cyprus 2019, 15,000 m³/d RO
 Gaza 3, Palestine 2019, 14,000 m³/d RO
 Bengal S.ALAM, Bangladesh 2019, 11,160 m³/d RO
 Iraq SHATT, Iraq 2019, 11,000 m³/d RO
 NGH2, Vietnam 2019, 11,000 m³/d RO
 Pakistan 2019, 10,000 m³/d RO
 Kalba, United Arab Emirates 2019, 10,000 m³/d RO
 Punta Gorda, United States 2019, 10,000 m³/d RO
 Shoaiba 4, Saudi Arabia 2018, 400,000 m³/d RO
 South Dhahran, Saudi Arabia 2018, 235,020 m³/d RO
 Jebel Ali Power & Desalination complex, United Arab Emirates 2018, 210,816 m³/d RO
 Jurong Island, Singapore 2018, 136,000 m³/d RO
 Salalah OPWP, Oman 2018, 110,000 m³/d RO
 Spence, Chile 2018, 105,000 m³/d RO
 Ain Sokhna, Egypt 2018, 105,000 m³/d RO
 Quebrada Blanca, Chile 2018, 102,300 m³/d RO
 East Port Saeid, Egypt 2018, 75,000 m³/d RO
 Djibouti SWRO plant, Republic of Djibouti 2018, 45,000 m³/d RO
 El Dabaa, Egypt 2018, 43,750 m³/d RO
 IDAM Atacama, Chile 2018, 39,000 m³/d RO
 Lima Sur II, Peru 2018, 37,500 m³/d RO
 KAEC King Abdulla Economic City, Saudi Arabia 2018, 32,000 m³/d RO
 IDAM Sta Cruz Tenerife, Spain 2018, 30,000 m³/d RO
 Maitree Power, Bangladesh 2018, 26,409 m³/d RO
 Tangshan Nanfeng Steel Plant, China 2018, 25,000 m³/d RO
 GUPCO, Egypt 2018, 24,000 m³/d RO
 Hebei Fengyue, China 2018, 24,000 m³/d RO
 Ennore Thermal 2 x 660 MW, India 2018, 20,160 m³/d RO
 Ghar Lapsi & Pembroke, Malta 2018, 20,000 m³/d RO
 Lanzarote, Spain 2018, 20,000 m³/d RO
 Sharma Tabuk, Saudi Arabia 2018, 20,000 m³/d RO
 HPCL, India 2018, 18,840 m³/d RO
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 SWRO 2x6500m³/d, Morocco 2018, 13,000 m³/d RO
 Balotra, India 2018, 12,600 m³/d RO
 Las Palmas III, Spain 2018, 12,500 m³/d RO
 Jaipur CETP, India 2018, 11,040 m³/d RO
 Agragua, Spain 2018, 11,000 m³/d RO
 Haihua Project, China 2018, 10,000 m³/d RO
 Capital Steel, China 2018, 10,000 m³/d RO
 Nirma, India 2018, 10,000 m³/d RO
 Habas Steel Mill SWRO, Turkey 2018, 10,000 m³/d RO
 Doha SWRO, Kuwait 2017, 284,736 m³/d RO
 Shoaibah III exp II, Saudi Arabia 2017, 278,000 m³/d RO
 Marina East, Singapore 2017, 160,000 m³/d RO
 Ras Al Khaimah IWP, United Arab Emirates 2017, 121,968 m³/d RO
 Zhejiang Longsheng, China 2017, 88,000 m³/d RO
 JAZAN Economic city ARAMCO, Saudi Arabia 2017, 82,250 m³/d RO
 Valdelelencisco Retrofit, Spain 2017, 72,000 m³/d RO
 Macanao Island SWRO, Venezuela 2016, 11,112 m³/d RO
 Al F retrofit, Saudi Arabia 2016, 11,000 m³/d RO
 Oman 2 x 5000 m³/d, Oman 2016, 10,400 m³/d RO
 Umm Al Houll Power and Water project, Qatar 2015, 336,000 m³/d RO
 Ras Abu Fontas A3, Qatar 2015, 200,200 m³/d RO
 Qurayyat IWP, Oman 2015, 200,000 m³/d RO
 Dongjiakou Jiaonan, China 2015, 106,872 m³/d RO
 Jazan SWRO Plant, Saudi Arabia 2015, 60,000 m³/d RO
 San Antonio Water BWRO, TX, United States 2015, 37,860 m³/d RO
 JUMBO Project, Texas, United States 2015, 36,000 m³/d RO
 TACE Project, Turkmenistan 2015, 35,100 m³/d RO
 Ensenada, Mexico 2015, 26,000 m³/d RO
 Remelah, Egypt 2015, 24,000 m³/d RO
 Cangzhou New Bohai (Shanghai Safbon), China 2015, 22,500 m³/d RO
 Carboneras, Spain 2015, 21,038 m³/d RO
 PWT - Esenguly, Turkmenistan 2015, 20,160 m³/d RO
 Maspalomas II, Spain 2015, 20,000 m³/d RO
 Adeje Arona, Tenerife, Spain 2015, 20,000 m³/d RO
 Shishi Hongshan Power Plant, China 2015, 15,600 m³/d RO
 Santa Barbara, United States 2015, 15,000 m³/d RO
 Yongxin, Vietnam 2015, 12,672 m³/d RO
 Punta Catalina, Dominican Republic 2015, 12,000 m³/d RO
 Aguas de Antofagasta, Chile 2015, 12,000 m³/d RO
 Caleta, Argentina 2015, 12,000 m³/d RO
 Meenaxi Energy Phase II, India 2015, 11,736 m³/d RO
 Jersey Island SWRO Project, United Kingdom 2015, 10,800 m³/d RO
 Safi SWRO, Morocco 2015, 10,296 m³/d RO
 Shanghai Jinta, China 2015, 10,000 m³/d RO
 Eren Power Plant SWRO, Turkey 2015, 10,000 m³/d RO
 Sri Damodaran TPS Ash Handling Water, India, 34,200 m³/d RO

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Flowserve manufactures and services fluid motion control solutions for the world's toughest, most critical applications. Our history began over 200 years ago, and today Flowserve employs more than 15,000 associates in 300-plus locations around the world, including over 180 quick response centers that provide aftermarket parts and services to customers.

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 - Valves
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- Global presence with localized support
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Through our unmatched combination of products, engineering and aftermarket services, we help our customers achieve tangible business results: lower operating costs, optimized performance, prolonged equipment life, mitigated risks and higher productivity.

Draw on our industry expertise to help address your most pressing challenges while reducing expenses, minimizing risk and maximizing performance.

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Equipment Supplier: Pumps, Energy Recovery Devices, ERD Boosters

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- Ashdod, Israel 2022, 705,600 m³/d RO
- Jorf Lasfar 3, Morocco 2022, 113,000 m³/d RO
- Jamnagar, India 2022, 52,800 m³/d RO
- Tanajib, Saudi Arabia 2022, 32,000 m³/d RO
- Mantoverde, Chile 2022, 18,400 m³/d RO
- Farwest Oxy, Oman 2022
- Shuqaiq 4, Saudi Arabia 2021, 513,000 m³/d RO
- Shuqaiq 1 replacement, Saudi Arabia 2021, 400,000 m³/d RO
- Barka V, Oman 2021, 100,000 m³/d RO
- Las Palmas 3, Spain 2021, 90,000 m³/d RO
- Jorf Lasfar 2, Morocco 2021, 27,000 m³/d RO
- Hydra, Greece 2021, 2,000 m³/d RO
- AL Jubail 3A, Saudi Arabia 2020, 600,000 m³/d RO
- Yanbu 4, Saudi Arabia 2020, 450,000 m³/d RO
- Kaust Expansion, Saudi Arabia 2020, 59,000 m³/d
- Planta Desaladora Antofagasta 300, Chile 2020, 33,000 m³/d RO
- Taweelah, United Arab Emirates 2019, 909,000 m³/d RO
- Rabigh 3, Saudi Arabia 2019, 600,000 m³/d RO
- Shuqaiq 3, Saudi Arabia 2019, 400,000 m³/d RO
- Dubal, Dubai, United Arab Emirates 2019, 50,000 m³/d RO
- Talara, Peru 2019, 32,000 m³/d RO
- Fengnan Steel, Shanghai, China 2018, 90,000 m³/d RO
- Spence, Antofagasta, Mejillones, Chile 2018, 86,000 m³/d RO
- Sharqiyah, Oman 2018, 80,000 m³/d RO
- Fengnan Steel, China 2018, 40,000 m³/d RO
- La Chimba, Chile 2018, 40,000 m³/d RO
- Atacama, Copiapó, Chile 2018, 38,880 m³/d RO
- Talara, Chile 2018, 35,000 m³/d RO
- Tenerife, Spain 2018, 20,000 m³/d RO
- Escondida, Chile 2017, 288,000 m³/d RO
- Minera Escondida Expansion, Antafogasta, Chile 2017, 72,000 m³/d RO
- Barbados 2017, 12,000 m³/d RO
- Aragua, Spain 2017, 10,000 m³/d RO
- Maspalomas I, Spain 2017, 6,000 m³/d RO
- Barka 4, Oman 2016, 281,000 m³/d RO
- Tuas 3, Singapore 2016, 150,000 m³/d RO
- Al Khafji, Saudi Arabia 2015, 60,000 m³/d RO
- Barka, Oman 2015, 56,780 m³/d RO
- Jumbo, United States 2015, 40,000 m³/d RO
- Repsol Butano, Spain 2015, RO
- Sabha, Israel 2014, 55,000 m³/d RO
- Minera Escondida, Antofagasta, Chile 2013, 216,000 m³/d RO
- Carlsbad, USA 2013, 189,250 m³/d RO
- Jamnagar Refinery, Gujarat, India 2013, 168,000 m³/d MED
- Yanbu III, Yanbu, Saudi Arabia 2012, 550,000 m³/d MSF
- Al Goubrah, Oman 2012, 190,932 m³/d RO
- Jorf Lasfar, Morocco 2012, 81,000 m³/d
- Al Ghalilah, Ras al-Jaima (UAE) 2012, 76,000 m³/d
- Qatar Solar, Qatar 2012, 34,600 m³/d RO
- Mantoverde, Chile 2012, 18,400 m³/d
- Haquel, Saudi Arabia 2012, 16,000 m³/d RO

Candelaria, Chile 2012, 15,200 m³/d RO
 Kaltim 5, Indonesia 2012, 7,200 m³/d RO
 Mobile unit, Canada 2012, 3,400 m³/d
 Cargill España, Spain 2012, 1,200 m³/d
 Unelco, Spain 2012, RO
 Enlevement Transit BCL, France 2012, RO
 Instalaciones Hidráulicas, Spain 2012, RO
 Palmachim and Ext., Israel 2011, 150,000 m³/d RO
 Az Zour, Kuwait 2011, 136,000 m³/d RO
 Sorek, Tel Aviv, Israel 2010, 540,000 m³/d RO
 Point Lisas, Trinidad and Tobago 2010, 72,736 m³/d RO
 Salalah, Oman 2010, 68,200 m³/d RO
 Adelaide I & II, South Australia, Australia 2009, 274,000 m³/d RO
 Campo de Dalías, Spain 2009, 90,000 m³/d RO
 Sydney, New South Wales, Australia 2008, 250,000 m³/d RO
 Shuqaiq, Jeddah, Saudi Arabia 2008, 240,000 m³/d RO
 Aguilas, Spain 2008, 180,000 m³/d RO
 Sur, Oman 2008, 120,000 m³/d RO
 Al Jubail, Saudi Arabia 2008, 60,000 m³/d RO
 Kaust, Saudi Arabia 2008, 60,000 m³/d RO
 Gold Coast, Australia 2007, 126,000 m³/d RO
 Barka II plant, Barka, Oman 2007, 120,000 m³/d RO
 Ashkelon, Israel 2005, 330,000 m³/d RO
 Perth 1, Western Australia, Australia 2005, 143,700 m³/d RO
 Perth 2, Western Australia, Australia 2005, 143,700 m³/d RO
 Singspring, Tuas, Singapore 2003, 136,000 m³/d RO
 El Atabal, Spain 2001, 165,000 m³/d
 Carboneras, Spain 2000, 120,000 m³/d RO
 Alicante I & 2, Spain 2000, 64,000 m³/d RO
 Tuaspring, Singapore, 320,000 m³/d RO
 Ras Al Khair, Saudi Arabia, 300,000 m³/d RO
 Tenes, Algeria, 260,000 m³/d RO
 Barcelona, Spain, 200,000 m³/d RO
 Rabigh I, Saudi Arabia, 200,000 m³/d RO
 Cap D'Jinet, Algeria, 200,000 m³/d RO
 Mostaganem, Algeria, 200,000 m³/d RO
 Carlsbad, United States, 189,000 m³/d RO
 Fujairah I, United Arab Emirates, 160,000 m³/d RO
 Beckton, United Kingdom, 150,000 m³/d RO
 Trinidad and Ext., Trinidad and Tobago, 140,000 m³/d RO
 Fujairah II, United Arab Emirates, 136,000 m³/d RO
 Cartagena 1 & 2, Spain, 120,000 m³/d RO
 Rabigh II, Saudi Arabia, 108,000 m³/d RO
 Minjur, India, 100,000 m³/d RO
 Nemeli, India, 100,000 m³/d RO
 Larnaca, Cyprus 2013, 60,000 m³/d RO
 Lanzarote V, Spain 2013, 18,000 m³/d RO
 Fouka, Algeria, 100,000 m³/d RO
 Red Sea Area, Egypt, 78,000 m³/d RO
 Alicante, Spain, 70,000 m³/d RO
 Palm Jumeirah, United Arab Emirates, 66,000 m³/d RO
 Bahía de Palma, Spain, 60,000 m³/d RO
 Sabha, Israel, 55,000 m³/d RO
 Sea Hero, South Korea, 35,000 m³/d RO
 BP Clair Ridge, 30,000 m³/d RO

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SELECTED REFERENCES

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Roy Hill Mine, Australia 2022, 40,000 m³/d RO
 ArcelorMittal SWRO, Brazil 2021, 12,000 m³/d RO
 Basrah Water Plant, Iraq 2020, 36,000 m³/d RO
 Oil & Gas Company, Iraq 2020, 24,000 m³/d RO
 Hotel, Hurghada, Egypt 2020, 6,000 m³/d RO
 Rancho San Lucas, Los Cabos, Mexico 2019, 500 m³/d RO
 RO hire plant, Adelaide, Australia 2019, RO
 RO plant, Queensland, Australia 2019, RO
 Beenyup AWRP, Craigie, Australia 2017, 50,000 m³/d RO
 Buritica Gold Mine, Buritica, Colombia 2017, 2,400 m³/d RO
 Multiple Municipal Plants, Venezuela 2017, RO
 Changi Newwater Expansion, Singapore 2015, 228,000 m³/d RO
 Baja California, Mexico 2015, 36,000 m³/d RO
 BP Khazzan, Oman 2014, 6,000 m³/d RO
 Sanmen, Qingdao, China 2013, 8,501 m³/d RO
 Takoradi, Ghana 2013, 4,000 m³/d RO
 OCEP Abu Tubul Block 60 Project Water Treatment Plant, Abu Tubul, Oman 2013, 900 m³/d RO
 Upper Zakum U750, South Island, United Arab Emirates 2013, 705 m³/d RO
 Pakistan 2012, 31,000 m³/d RO
 Ras Al Khaimah, United Arab Emirates 2012, 20,160 m³/d RO
 Saudi Arabia 2012, 2,200 m³/d RO

Equipment Supplier: Energy Recovery and High Pressure Feed Pumps: BiTurbo™ High Recovery SWRO

Resort, Indonesia 2023, 3,000 m³/d RO
 Resort, Indonesia 2022, 3,000 m³/d RO
 Agriculture, Mexico 2022, 2,300 m³/d RO
 Resort, Mexico 2022, 700 m³/d RO
 Brine Mining (Ultra High Pressure), Saudi Arabia 2022, 672 m³/d RO
 Gili Trawangang Authority, Indonesia 2020, 3,000 m³/d RO
 Rancho San Lucas, Baja California, Mexico 2019, 360 m³/d RO

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DTRI/SWCC Brine Mining Pilot, Saudi Arabia 2020, RO
 FGD Wastewater ZLD, Turów, Poland 2019, 1,000 m³/d RO

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Equipment Supplier: Energy Recovery Devices

Saline Water conversion Company, Saudi Arabia 2022, 67,200 m³/d RO
 United Arab Emirates 2022, 24,000 m³/d RO
 San Quintin, Mexico 2022, 2,300 m³/d RO
 Cancun, Mexico 2022, 700 m³/d RO
 Jubail, Saudi Arabia 2022, 672 m³/d RO
 SWRO for Mining Application, Chile 2021, 34,560 m³/d RO
 Groundwater Reliability Improvement Program (GRIP), Pico River, CA, United States 2017, 46,631 m³/d RO
 Cuevas de Almanzora WTP, Cuevas de Almanzora, Spain 2017, 10,000 m³/d RO
 Richard Reynolds Desalination Facility, Chula Vista, CA, United States 2016, 3,270 m³/d RO
 Chino I Desalter Expansion, Chino, CA, United States 2016, 2,240 m³/d RO
 North Jensen Beach BWRO, Martin County, FL, United States 2015, 22,710 m³/d RO
 Ras Al-Khair Power and Desalination Plant, Ras Al-Khair, Saudi Arabia 2014, 306,700 m³/d RO
 Ras Al Khaimah, United Arab Emirates 2014, 25,000 m³/d RO
 Richard Reynolds Desalination Facility, Chula Vista, CA, United States 2016, 3,270 m³/d RO
 Chino I Desalter Expansion, Chino, CA, United States 2016, 2,240 m³/d RO
 North Jensen Beach BWRO, Martin County, FL, United States 2015, 22,710 m³/d RO
 Ras Al-Khair Power and Desalination Plant, Ras Al-Khair, Saudi Arabia 2014, 306,700 m³/d RO
 Ras Al Khaimah, United Arab Emirates 2014, 25,000 m³/d RO
 Oman 2014, 6,750 m³/d RO
 Springtree Water Treatment Plant, Sunrise, FL, United States 2014, 5,680 m³/d RO
 Archean Chemicals, Chennai, India 2014, 3,727 m³/d RO
 United Arab Emirates 2014, 3,000 m³/d RO
 Saudi Arabia 2014, 2,000 m³/d RO
 Qatar 2014, 2,000 m³/d RO
 Saudi Arabia 2014, 1,300 m³/d RO
 Saudi Arabia 2014, 200 m³/d RO
 Chino II Desalter, Santa Fe Springs, CA, United States 2014, RO
 Jeddah RO Phase III, Saudi Arabia 2013, 240,030 m³/d RO
 Adani Expansion, Mundra, India 2013, 20,000 m³/d RO
 Qurayyah IPP, Al Qurayyah, Saudi Arabia 2013, 17,352 m³/d RO
 United Arab Emirates 2013, 15,000 m³/d RO
 Qatar Solar Technologies Polysilicon, Ras Laffan, Qatar 2013, 12,000 m³/d RO
 Kaltim-5, Bontang, Indonesia 2013, 7,200 m³/d RO
 HM Ocean, United Kingdom 2013, 240 m³/d RO
 Sea Hero Test Bed SWRO, Busan, South Korea 2013, RO
 Daesan K-Water, Daesan, South Korea 2012, 119,000 m³/d RO
 Orange County Water District (OCWD) Groundwater
 Ras Al Khaimah, United Arab Emirates 2012, 18,000 m³/d RO
 Bechtel Wheatstone, WA, Australia 2012, 10,000 m³/d RO
 Al Khaleej, United Arab Emirates 2012, RO
 Kyianli Desalination DWP, Turkmenistan, 30,000 m³/d RO
 Angola, 1,200 m³/d RO
 Ternium Wastewater Treatment Plant, Mexico, RO

Equipment Supplier: High Pressure Feed Pumps

SUEZ WTS Solutions USA, Inc., United States 2023, 9,600 m³/d RO
 Pact Engineering FZC, United Arab Emirates 2022, 115,200 m³/d RO
 Pact Engineering FZC, United Arab Emirates 2022, 96,000 m³/d RO
 Shook and AECOM, USA 2022, 50,400 m³/d RO
 Pact Engineering FZC, United Arab Emirates 2022, 38,400 m³/d RO
 ESLI END. Ur. Paz. Sen Ve Tic. Ltd. Sti., Turkey 2022, 28,800 m³/d RO
 AEREX Industries, United States 2022, 19,200 m³/d RO
 ESLI END. Ur. Paz. Sen Ve Tic. Ltd. Sti., Turkey 2022, 16,800 m³/d RO
 Marlo Inc, United States 2022, 9,600 m³/d RO
 Albany Resort, Nassau, New Providence Island, Bahamas 2018, 757 m³/d RO
 Husky Refinery, Lima, Ohio, United States 2017, 5,923 m³/d RO
 Marshall Island Desal., Ebeye, Marshall Islands 2016, 1,600 m³/d RO
 Pakistan 2014, 100,000 m³/d RO
 Iraq 2014, 75,000 m³/d RO
 Ras Al Khaimah, United Arab Emirates 2014, 25,000 m³/d RO
 Angola 2013, 2,592 m³/d RO
 Wheatstone, WA, Australia 2012, 10,000 m³/d RO
 Ras Al Khaimah, United Arab Emirates 2012, 9,000 m³/d RO
 Libya 2012, 8,000 m³/d RO
 TASIAST Expansion Kinross, Mauritania 2012, 856 m³/d RO
 Al Khaleej, United Arab Emirates 2012, RO

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Equipment Supplier: Pumps

Gibraltar 2017, 5,200 m³/d RO
 Singapore 2017, 1,500 m³/d RO
 Italy 2017, 700 m³/d RO
 Greece 2017, 650 m³/d RO
 China 2017, 600 m³/d RO
 Spain 2016, 750 m³/d RO
 France 2016, 700 m³/d RO
 Italy 2016, 660 m³/d RO
 Spain 2016, 660 m³/d RO
 Greece 2016, 660 m³/d RO
 Argentina 2015, 12,000 m³/d RO
 Argentina 2015, 1,500 m³/d RO
 Egypt 2015, 1,000 m³/d RO
 Greece 2015, 1,000 m³/d RO

Spain 2015, 1,000 m³/d RO
 Spain 2015, 960 m³/d RO
 Spain 2015, 552 m³/d RO
 Italy 2014, 1,080 m³/d RO
 Venezuela 2014, 1,000 m³/d RO
 Turkey 2014, 500 m³/d RO
 Turkey 2014, 500 m³/d RO
 Kenya 2014, 360 m³/d RO
 Turkey 2014, 350 m³/d RO
 Turkey 2014, 300 m³/d RO
 Lamberts Bay, South Africa 2013, 1,700 m³/d RO
 Providence & Anse Boileau, Seychelles 2012, 7,500 m³/d RO
 South Korea 2010, 500 m³/d RO
 Tasiyas, Australia 2010, 500 m³/d RO
 Argentina, 3,600 m³/d RO
 Turkey, 1,344 m³/d RO
 Turkey, 1,100 m³/d RO
 Gocek Marin-Mugla, Turkey, 500 m³/d RO
 Namibia, 432 m³/d RO
 Corfu, Greece, 400 m³/d RO
 Tasmania, Australia, 240 m³/d RO
 Isles of Scilly, United Kingdom, 200 m³/d RO

Rabigh III Independent Water Project, Saudi Arabia 2019, 600,000 m³/d RO
 Al-Khobar SWRO II Desalination Plant, Saudi Arabia 2019, 600,000 m³/d RO
 Shuqaiq 3 Independent Water Project, Saudi Arabia 2019, 450,000 m³/d RO
 Al Dur Phase II, Bahrain 2019, 230,000 m³/d RO
 Seawater Desalination Plant in Sousse, Tunisia 2019, 50,000 m³/d RO
 Aksaray, Turkey 2019, 45,000 m³/d Other / Unknown
 New Mansoura Desalination Plant, Egypt 2019, 40,000 m³/d Other / Unknown
 IDAM Tenerife Seawater Desalination Plant Extension, Spain 2019, 30,000 m³/d RO
 DUQM Integrated Power & Water Plant ("DIPWP") Project, Oman 2019, 30,000 m³/d Other / Unknown
 Seawater Desalination Project for the Modernization of the Talara Refinery, Peru 2019, 20,500 m³/d RO
 IDAM Guaymas, Mexico 2019, 18,000 m³/d RO
 Adecuacion IDAM Lanzarote III, Spain 2019, 14,000 m³/d RO
 Al Khobar SWRO Project, Saudi Arabia 2018, 210,000 m³/d RO
 Jebel Ali Power and Desalination Station, United Arab Emirates 2018, 180,000 m³/d RO
 Salalah Independent Water Project, Oman 2018, 120,000 m³/d RO
 Seawater Desalination Plant of Atacama, Chile 2018, 40,000 m³/d RO
 Santa Cruz de Tenerife Seawater Desalination Plant Extension, Spain 2018, 30,000 m³/d Other / Unknown
 Provisur SWRO, Peru 2018, 25,000 m³/d RO
 Djibouti SWRO, Republic of Djibouti 2018, 21,000 m³/d RO
 Antofagasta and Tocopilla Desalination Plant, Chile 2018, 20,000 m³/d RO
 Hassi Messaoud Demineralization Station Extension, Algeria 2018, 14,350 m³/d Other / Unknown
 El-Alamein Seawater Reverse Osmosis Desalination Plant, El-Alamein, Egypt 2017, 150,000 m³/d RO
 Desalination Plant at Marina East DBOO Project, Singapore 2017, 135,000 m³/d RO
 Rizal Province Water Supply Improvement Project Phase I & II, Philippines 2017, 76,000 m³/d RO
 Fengshangxi Plant, Taiwan 2017, 60,000 m³/d RO
 Sohar Sea Water Reverse Osmosis Plant, Sohar, Oman 2016, 250,000 m³/d RO
 Tuas 3rd Desalination Plant, Tuas, Singapore 2016, 113,562 m³/d RO
 TUAS 3rd Desalination Plant, Tuas, Singapore 2016, 113,562 m³/d RO
 Dongjiakou Seawater Desalination Plant, Qing Dao, China 2016, 100,000 m³/d RO
 Putatan Water Treatment Plant 2, Putatan, Muntinlupa, Philippines 2016, 90,000 m³/d RO
 Oil Refinery, Russia 2016, 35,000 m³/d Other / Unknown
 Hassi Messaoud Demineralization Station, Algeria 2016, 24,000 m³/d Other / Unknown
 Aktau Desalination Plant, Kazakhstan 2016, 20,000 m³/d RO
 Shell Appomattox, United States 2016, 20,000 m³/d Other / Unknown
 Changi NEWater Project Phase 2, Singapore 2015, 228,000 m³/d RO
 Qurayyat Independent Water Project, Qurayyat, Oman 2015, 200,000 m³/d RO
 Sharqiyah Desalination Plant, Sur, Oman 2015, 50,000 m³/d RO
 Expansion of Kranji NEWater Factory, Singapore 2015, 22,730 m³/d RO
 DBOM of the Beetham Water Recycling Plant, Trinidad and Tobago 2014, 50,000 m³/d RO

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Equipment Supplier: Pressure Vessels

Yanbu 4 Independent Water Project, Saudi Arabia 2021, 600,000 m³/d RO
 Ghubrah III Independent Water Project, Oman 2021, 300,000 m³/d Other / Unknown
 Barka V Independent Water Project, Oman 2021, 100,000 m³/d Other / Unknown
 Laguna Lake Water Treatment Plant at La Poblacion City, Manila, Philippines 2021, Other / Unknown
 Antofagasta Desalination Plant, Chile 2021, Other / Unknown
 Umm Al Quwain SWRO Desalination Plant, United Arab Emirates 2020, 680,000 m³/d RO
 Al Jubail 3A Seawater Desalination Plant, Saudi Arabia 2020, 600,000 m³/d RO
 Sorek 2 Plant (2nd Pass), Israel 2020, 548,000 m³/d RO
 Tseung Kwan O Desalination Plant Stage 1, China 2020, 135,000 m³/d RO
 Dubal SWRO Water Plant, United Arab Emirates 2020, 40,000 m³/d RO
 Boiler Feed Water Treatment Plant, Lençóis Paulista, São Paulo State, Brazil 2020, RO
 Taweelah RO Independent Water Project I & II, United Arab Emirates 2019, 909,200 m³/d RO

- Zhenhai Petrochemical Water Treatment Project, China 2014, 38,400 m³/d RO
- PetroChina Yunnan Petrochemical Company Limited Wastewater Treatment Plant, China 2014, 24,000 m³/d RO
- Angamos Phase I , Chile 2014, 4,800 m³/d RO
- Carlsbad Desalination Plant, California, United States 2013, 189,500 m³/d RO
- APLNG Project, Australia 2013, 60,000 m³/d RO
- Baogang Steel Group Water Treatment Project, Hebei, China 2013, 30,000 m³/d MED
- Tuaspring Desalination Plant, Singapore 2012, 318,500 m³/d RO
- QGC LNG Upstream Plant - Phase I, Australia 2012, 100,000 m³/d RO
- ORIGIN SRO Project, Australia 2012, 3,000 RO
- City Stars Project, Egypt 2012, 3,000 m³/d RO
- Municipal Water Treatment Project, Australia, 500,000 m³/d Other / Unknown
- ZOLAL IRAN JOB Water Block Fajr 2 , Iran, 120,000 m³/d Other / Unknown
- QGC LNG Upstream Plant - Phase 2, Australia, 100,000 m³/d Other / Unknown
- West Sydney Water Treatment Project, Australia, 90,720 m³/d Other / Unknown
- Anshan CO., Ltd Water Treatment Project, China, 74,400 m³/d Other / Unknown
- Tianjin Petrochemical Corporation Water Treatment Project, China, 60,000 m³/d Other / Unknown
- Anshan CO., Ltd Water Treatment Project, China, 57,600 m³/d Other / Unknown
- Anshan CO.,LTD Water Treatment Project, China, 57,600 m³/d
- Sur Desalination Plant, Barbera Sharqiyah, Oman, 50,000 m³/d RO
- Nanbao Reclaimed Water Reuse Project, China, 48,000 m³/d Other / Unknown
- Xuanhua Steel Group CO., LTD Water Treatment Project, China, 40,800 m³/d Other / Unknown
- Rizhao Senbo Paper Making Plant , China, 35,000 m³/d Other / Unknown
- Zhouping Power Plant Water Treatment Project, China, 33,600 m³/d Other / Unknown
- Tangshan Guofeng Iron and Steel Plant Water Treatment Project(I Phase), China, 33,600 m³/d Other / Unknown
- Yangchen Power Plant Water Treatment Project, China, 31,200 m³/d Other / Unknown
- Complexo Petroquímico do Rio de Janeiro, Comperj, Brazil, 28,000 m³/d Other / Unknown
- Jinan Steel Water Reuse Project, China, 26,400 m³/d Other / Unknown
- Jian Chemical Water Treatment Project, China, 26,400 m³/d Other / Unknown
- Yuhuang Water Treatment Project, Heze, China, 24,000 m³/d Other / Unknown
- Jun Liangcheng Power Plant Water Treatment Project, Tianjin, China, 24,000 m³/d Other / Unknown
- Jinxin Petrochemical Water Treatment Project, China, 24,000 m³/d Other / Unknown
- Yangquan Sewage Plant Water Treatment Project, China, 21,600 m³/d Other / Unknown
- Tangshan Guofeng Iron and Steel Plant Water Treatment Project(II Phase), China, 21,600 m³/d Other / Unknown
- Changhong Industrial Zone Water Treatment Project, Sichuan, China, 21,600 m³/d Other / Unknown
- Minmetals Yingkou Medium Plate Co., Ltd Water Treatment Project, China, 19,200 m³/d Other / Unknown
- Chengde Steel Group Water Treatment Project, China, 19,200 m³/d Other / Unknown
- Xuanwei Power Generating CO., LTD Water Treatment Project, China, 18,000 m³/d Other / Unknown
- Shandong Jindu Electronics CO.,LTD Water Treatment Project, China, 18,000 m³/d Other / Unknown
- Shenguang Power Plant Water Treatment Project, China, 16,800 m³/d Other / Unknown
- Dushanzi Petrochemical Water Treatment Project, China, 16,800 m³/d Other / Unknown
- Beijing Beixiaohe WWTP Water Treatment Project, China, 16,800 m³/d Other / Unknown
- Yueyang Paper Shareholding Company Water Treatment Project, China, 15,600 m³/d Other / Unknown
- China Petroleum & Chemical Corporation Methanol Filtration Project, China, 14,976 m³/d Other / Unknown
- China Petroleum & Chemical Corporation Methanol Filtration Project, China, 14,976 m³/d Other / Unknown
- Elion Chemical Industry CO.LTD, Inner Mongolia Water Treatment Project, China, 12,000 m³/d Other / Unknown
- Sidem Marafiq Saudi Arabia Desalination Project, Jubail, Saudi Arabia, 10,000 m³/d Other / Unknown
- Liuheng Water Supply Co.Ltd Project, China, 10,000 m³/d Other / Unknown
- Seawater Desalination Project, India, 10,000 m³/d Other / Unknown
- Huaqiang Petrochemical Water Treatment Project, China, 9,600 m³/d Other / Unknown
- Shouqin Metel Material CO.,LTD Water Treatment Project, China, 7,200 m³/d Other / Unknown
- Shanna Synthetic Rubber Corporation Water Treatment Project, China, 7,200 m³/d Other / Unknown
- Ningxia Eppens Bioengineering CO.,LTD Water Treatment Project, China, 7,200 m³/d Other / Unknown
- Jinheng Chemical Fertilizer CO.,LTD Water Treatment Project, Heibei, China, 7,200 m³/d Other / Unknown
- METITO Seawater Project, United Arab Emirates, 6,000 m³/d Other / Unknown
- Indonesia Water Project, Indonesia, 5,000 m³/d Other / Unknown
- Changtu Seawater Project, China, 5,000 m³/d Other / Unknown
- India TWAD Seawater Desalination Project, India, 5,000 m³/d Other / Unknown
- Jiaokou Thermal Power Ltd Water Treatment Project, China, 4,800 m³/d Other / Unknown
- BIGA Seawater Project, Turkey, 4,000 m³/d Other / Unknown
- Sumatra Island Seawater Desalination Project , Indonesia, 4,000 m³/d Other / Unknown
- Huawei Thermal Power Co., Ltd Water Treatment Project, Huaifang, China, 3,600 m³/d Other / Unknown
- Baja, Texas Project, Mexico, Other / Unknown
- Water Mobile Equipment, Europe, Other / Unknown
- Namibia Water Treatment Project, Namibia, Other / Unknown
- DOOSAN Water Treatment Project, Saudi Arabia, Other / Unknown
- Doha Water Treatment Project, Qatar, Other / Unknown

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Equipment Supplier: Pumping Systems

San Pedro del Pinatar I Desalination Plant, San Pedro del Pinatar, Murcia, Spain 2023, 276,480 m³/d RO

Salto de Chira-Soria Desalination Plant, Gran Canaria, Spain 2023, 26,688 m³/d RO

Alicante I Desalination Plant, Alicante, Spain 2023, 21,600 m³/d RO

Spence Copper Mine Desalination Plant, Mejillones, Chile 2021, 86,400 m³/d

The Charles E. Meyer Desalination Plant, California, United States 2021, 26,000 m³/d

Claude "Bud" Lewis Desalination Plant, California, United States 2019, 227,304 m³/d

Khor Fakkan Desalination Plant, Sharjah, United Arab Emirates 2019, 19,000 m³/d

Edam de Cabos San Lucas, Baja California Sur, Mexico 2017, 47,350 m³/d

Virgen del Milagro Desalination Plant (MAZARRÓN), Spain 2016, 110,160 m³/d

Red Sea Desalination Plant, Rabigh, Saudi Arabia, 600,000 m³/d

Monterey Slant Well, California, United States of America, 12,000.0 m³/day

Municipality, Island, Turks and Caicos Islands 2014, 1,454 m³/d RO

Mining facility, Island, Peru 2014, 1,244 m³/d RO

Hotel, Island, Greece 2014, 600 m³/d RO

Avedøre Power, Copenhagen, Denmark 2014, 600 m³/d RO

Hotel, Island, Italy 2014, 600 m³/d RO

Hotel, Island, Greece 2014, 350 m³/d RO

Hotel, Island, Italy 2014, 265 m³/d RO

Hotel, Island, Taiwan 2014, 150 m³/d RO

Hotel, Island, South Korea 2014, 125 m³/d RO

Ship, Marine, France 2014, 100 m³/d RO

Hotel, Island, Greece 2013, 750 m³/d RO

Hotel, Island, Greece 2013, 600 m³/d RO

Oasis Caribe, Island, Mexico 2013, 600 m³/d RO

Oasis Sens, Island, Mexico 2013, 600 m³/d RO

Hotel, Island, Greece 2013, 600 m³/d RO

Hotel, Island, Greece 2013, 500 m³/d RO

Averø Power Plant, Copenhagen, Denmark 2012, 600 m³/d RO

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Equipment Supplier: XPR Pressure Exchanger (Osmotic Power Pilot Plants)

National University of Singapore, Singapore 2015, 1 m³/d Other / Unknown

Nanyang Technological University, NTU, Singapore 2014, 22 m³/d Other / Unknown

Osmoblue, Lausanne, Switzerland 2014, 10 m³/d Other / Unknown

National University of Singapore, NUS, Singapore 2014, 5 m³/d Other / Unknown

Equipment Supplier: XPR Pressure Exchanger (SWRO)

Municipality, Island, Indonesia 2015, 2,428 m³/d RO

MASDAR, Dubai, United Arab Emirates 2015, 1,070 m³/d RO

Hotel, Island, United Arab Emirates 2015, 171 m³/d RO

Research Institute, Shanghai, China 2015, 100 m³/d RO

Shuqaik Power, Red Sea, Saudi Arabia 2014, 8,016 m³/d RO

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Equipment Supplier: Pump Replacements

Compact & Energy Efficient High-Pressure Pumping Stations, Gibraltar, 24,000 m³/d RO

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Equipment Supplier: Pumps

Kindasa Water Services, Jeddah, Saudi Arabia, 40,000 m³/d RO

Al Shallal Park, Jeddah, Saudi Arabia, 35,952 m³/d

Aquaries Arabia, Yanbu, Saudi Arabia, 4,000 m³/d RO

Private Desalination Plant, SAWACO, Jeddah, Saudi Arabia

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Equipment Supplier: Pressure Vessels

Bacalhau FPSO, Brazil 2021, Ozonation
Lithuania 2021, Other / Unknown
Shoiba, Saudi Arabia 2021, Other / Unknown
Kingisepp, Russia 2021, Other / Unknown
Poland 2021, Other / Unknown
Shuqaiq IV, Saudi Arabia 2021, Other / Unknown
Negela Rasheed Taba Expansion Ain Sokhna, Egypt 2021, Other / Unknown
Jawa Project, South Korea 2021, Other / Unknown
Jubail Plant, Saudi Arabia 2021, Other / Unknown
MERO 3, Brazil 2021, Other / Unknown
Bateau Cassé Project, Algeria 2021, Other / Unknown
Reghaia, Algeria 2021, Other / Unknown
Marvel Project Brine concentration- Indonesia, Turkey 2021, Other / Unknown
Desali el Matrouh, Egypt 2021, Other / Unknown
SIDI IFNI, Morocco 2021, Other / Unknown
Laayoune, Morocco 2020, Other / Unknown
Bonaire, Netherlands 2020, Other / Unknown
Sonede Zarat SWRO, Tunisia 2020, Other / Unknown
MARLIM1 - MV33 - Anita Garibaldi FPSO, Brazil 2020, Other / Unknown
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"PLANT B" SEAWATER DESALINATION, Israel 2020, Other / Unknown
Sulaibiya, Kuwait 2020, Other / Unknown
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Liza 3 FPSO, Guyana 2020, Other / Unknown
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El Oued, Algeria 2019, Other / Unknown
FPSO Guanabara (MV31), Brazil 2019, Other / Unknown
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SJ7262, Singapore 2019, Other / Unknown
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Daaba, Egypt 2017, Other / Unknown
Barka IV IWP, Oman 2016, 281 m³/d Other / Unknown
Basrah IRAK Water Supply Improvement Project P4, Iraq 2016, 199 m³/d Other / Unknown
Jazan IGCC (Aramco), Saudi Arabia 2016, Other / Unknown
Kouribgah Morocco, Morocco 2016, Other / Unknown
Project in Egypt, Egypt 2016, Other / Unknown
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Ulu Pandan expansion project, Singapore 2016, Other / Unknown
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Blue Hills, Bahamas 2015, 10 m³/d Other / Unknown
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East Hub, Angola 2015, Other / Unknown
Beenyup AWRP, Australia 2015, Other / Unknown
FPSO P68-P71, Brazil 2015, Other / Unknown
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Integra (P67 & P70), Brazil 2014, Other / Unknown
P76, Brazil 2014, Other / Unknown
P74, Brazil 2014, Other / Unknown
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 Kaust Project, Saudi Arabia 2013, Other / Unknown
 Modon WTP, Saudi Arabia 2013, Other / Unknown
 Rabigh II, Saudi Arabia 2013, Other / Unknown
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 Copiapó Expansion, Chile 2013, Other / Unknown
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 Laayoune, Morocco 2012, Other / Unknown
 Melbourne, VIC, Australia, 418,000 m³/d RO
 Ras Al Khair, Saudi Arabia, 310,000 m³/d RO
 Ras Al Khair, Saudi Arabia, 306,700 m³/d RO
 Carlsbad, United States 2014, 189,250 m³/d RO
 Ras Abu Fontas A3, Qatar 2015, 163,656 m³/d RO
 Adelaide II, Australia, 150,000 m³/d RO
 Fujairah, United Arab Emirates 2013, 136,000 m³/d RO
 Orange County GWRD, United States 2012, 113,550 m³/d RO
 Qingdao, China 2010, 100,000 m³/d RO
 Ghalilah, United Arab Emirates 2012, 68,140 m³/d RO
 Marina Baja - Mutxamel, Spain, 50,000 m³/d RO
 Oropesa, Spain, 50,000 m³/d RO
 Copiapo, Chile 2012, 17,000 m³/d RO
 Kaust, Saudi Arabia 2020, 15,000 m³/d RO
 Sterling, CO, United States 2011, 11,827 m³/d RO
 Tan Tan, Morocco 2012, 8,600 m³/d RO
 Ampliación Cabo Verde, Cabo Verde, 5,000 m³/d RO
 MV27, Brazil, RO
 FPSO - CLOV, Angola, RO
 Al Zawarah, United Arab Emirates, RO

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Corso, Algeria 2022, 80,000 m³/d RO
 Manyar Smelter, Indonesia 2022, 45,000 m³/d RO
 Sharm El Sheikh, Egypt 2022, 25,000 m³/d RO
 Basrah, Iraq 2022, 2,500 m³/d RO
 North Field Expansion SWRO, Ras Laffan, Qatar 2021, 283,000 m³/d RO
 Soreq 2, Israel 2020, 670,000 m³/d RO
 Shoaibah 5, Shoaibah, Saudi Arabia 2020, 600,000 m³/d RO
 East Matrouh, Matrouh, Egypt 2020, 65,000 m³/d RO
 Los Pelambres, Chile 2020, 34,560 m³/d RO
 SES South Sinai, South Sinai, Egypt 2020, 6,500 m³/d RO
 Sharm El Sheikh (Movenpick hotel), Shalm El Sheikh, Egypt 2020, 3,000 m³/d RO
 Um Al Quwain, United Arab Emirates 2019, 681,818 m³/d RO
 Khobar 2 replacement SWRO, Saudi Arabia 2019, 630,000 m³/d
 RO Shuqaiq 3 IWP, Saudi Arabia 2019, 450,000 m³/d RO
 Umm Al Houll 2, Qatar 2019, 300,000 m³/d RO
 West Coast SWRO Plants, Saudi Arabia 2019, 238,500 m³/d RO
 Jebel Ali SWRO, United Arab Emirates 2019, 182,000 m³/d RO
 Bahri Barge Units, Saudi Arabia 2019, 150,000 m³/d RO
 Shangdong Binzhou, China 2019, 60,000 m³/d RO
 Zaatat, Tunisia 2019, 50,000 m³/d RO

Al-Wakrah, Qatar 2015, 170,000 m³/d RO
 New Mansoura City, Egypt 2019, 40,000 m³/d RO
 Laayounne 2, Morocco 2019, 26,000 m³/d RO
 Guaymas SWRO, Mexico 2019, 18,500 m³/d RO
 Los Cabos Expansion SWRO, Mexico 2019, 15,000 m³/d RO
 East Port Said SWRO, Egypt 2018, 150,000 m³/d RO
 Agadir Expansion, Morocco 2018, 100,000 m³/d RO
 Sousse SWRO, Tunisia 2018, 50,000 m³/d RO
 SWRO Laayoun, Morocco 2018, 26,000 m³/d RO
 SWRO Al Hoceima, Morocco 2018, 17,500 m³/d RO
 SWRO Jeddah (Emergency Plants), Saudi Arabia 2018, 7,300 m³/d RO
 Shuaibah III Expansion II Desalination Plant, Saudi Arabia 2017, 250,000 m³/d RO
 El Alamein SWRO Plant, Egypt 2017, 150,000 m³/d RO
 El Galalah Desalination Plant, Egypt 2017, 150,000 m³/d RO
 Jazan SWRO Plant, Saudi Arabia 2017, 150,000 m³/d RO
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 Palestine SWRO, Palestine 2017, 12,000 m³/d RO
 Rabigh 3x 2000 m³/day (Kindsa), Saudi Arabia 2017, 6,000 m³/d RO
 SAWACO Store City Plant, Saudi Arabia 2017, 5,000 m³/d RO
 Barka IV, Oman 2016, 281,000 m³/d RO
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 Ras Al Khaima, United Arab Emirates 2016, 150,000 m³/d RO
 iga II, Burkina Faso 2016, 120,000 m³/d Other / Unknown
 Putatan WTP 2, Philippines 2016, 100,000 m³/d RO
 Cangzhou SWRO Plant, China 2016, 50,000 m³/d RO
 Hangzhou WWT, China 2016, 50,000 m³/d Other / Unknown
 Khurais, Saudi Arabia 2016, 50,000 m³/d RO
 Remelah II, Egypt 2016, 20,000 m³/d RO
 Shenhua Ningxia Coal Plant, China 2016, 20,000 m³/d RO
 El M'Ghaier, Algeria 2016, 16,000 m³/d RO
 Formentera SWRO Plant, Spain 2016, 15,000 m³/d RO
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 Magtaa Expansion, Algeria 2015, 500,000 m³/d RO
 Um Al Houl, Qatar 2015, 300,000 m³/d RO
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 Basrah, Iraq 2015, 200,000 m³/d RO
 Ras Abu Fontas, Qatar 2015, 170,000 m³/d RO
 Agadir, Morocco 2015, 100,000 m³/d RO
 Qingdao Dongjiakou, China 2015, 100,000 m³/d RO
 Xiaotangshan Water Treatment Plant, China 2015, 100,000 m³/d Other / Unknown
 Djerba, Tunisia 2015, 50,000 m³/d RO
 Khouribga, Morocco 2015, 38,000 m³/d RO
 Santa Barbara, United States 2015, 20,000 m³/d RO
 Yanbu Containerized SWRO plant, Saudi Arabia 2015, 12,000 m³/d RO
 BV Plant, Vietnam 2015, 8,000 m³/d RO
 Xinjiang Guanghui, China 2015, 6,000 m³/d RO
 Hongyanhe Nuclear Power Plant SWRO P3, China 2015, 4,500 m³/d RO
 Shenhua Ningxia Coal Plant, China 2015, 3,600 m³/d RO
 Hezoua, Tunisia 2014, 10,000 m³/d RO

Hongyanhe Nuclear Power Plant SWRO P2, China 2015, 4,000 m³/d RO
 Ningde Nuclear Power Plant SWRO P2, China 2015, 3,500 m³/d RO
 Hongdun Wastewater Reuse Plant, China 2015, 3,000 m³/d RO
 Egypt Container SWRO P2, Egypt 2015, 2,000 m³/d RO
 Jamnagar, India 2014, 168,000 m³/d RO
 Mirfa, United Arab Emirates 2014, 136,000 m³/d RO
 United Arab Emirates 2014, 136,000 m³/d RO
 Beetham, Trinidad and Tobago 2014, 50,000 m³/d RO
 Trinidad and Tobago 2014, 50,000 m³/d NF
 Baosteel Desalination plant, China 2014, 30,000 m³/d RO
 Baosteel, China 2014, 30,000 m³/d MED
 Polimeks, Turkmenistan 2014, 30,000 m³/d RO
 Kiyarly, Turkmenistan 2014, 30,000 m³/d RO
 Tianjin Zhongxin Shengtaicheng, China 2014, 20,000 m³/d RO
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 Granadilla, Spain 2014, 16,000 m³/d RO
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 Barka SWRO Plant (Small Plant), Oman 2014, 12,000 m³/d RO
 Tozeur, Tunisia 2014, 10,000 m³/d RO
 Nafta, Tunisia 2014, 10,000 m³/d NF
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 Marasi, Egypt 2014, 5,000 m³/d RO
 Tenes, Algeria 2013, 200,000 m³/d RO
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 Carlsbad, United States 2013, 189,250 m³/d RO
 Tembusu SWRO (Intake), Singapore 2013, 182,000 m³/d RO
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 Al Jubail SWRO-4., Saudi Arabia 2013, 100,000 m³/d RO
 Cap Djinet, Algeria 2013, 100,000 m³/d RO
 Salalah, Oman 2013, 68,200 m³/d RO
 Ghana SWRO, Nungua, Ghana 2013, 60,000 m³/d RO
 Teshie Nungua, Ghana 2013, 60,000 m³/d RO
 Taiyuan Steel Plant, China 2013, 36,000 m³/d RO
 Salalah Steel Plant, Oman 2013, 35,000 m³/d RO
 Hongyang Power Plant, China 2013, 30,000 m³/d RO
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 Middelburg water reclamation plant, Middelburg, South Africa 2013, 20,000 m³/d RO
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 Guia de Isora/Oeste de Tenerife, Tenerife, Spain 2013, 14,000 m³/d RO
 Nellore, India 2013, 10,000 m³/d RO
 Muthukurmandal, Nellore Andhra Pradesh, India 2013, 10,000 m³/d RO
 Dafeng SWRO, Dafeng, China 2013, 5,000 m³/d RO
 Datang Keqi Coal Plant ZLD, China 2013, 3,200 m³/d MED
 Soreq, Israel 2012, 510,000 m³/d RO
 Magtaa, Oran, Algeria 2012, 500,000 m³/d RO
 Melbourne, VIC, Australia 2012, 411,000 m³/d RO
 Ashdod, Israel 2012, 320,000 m³/d RO
 Qingdao, China 2012, 100,000 m³/d RO
 Aktau, Kazakhstan 2011, 12,000 m³/d MED
 Jorf Lasfar, Morocco 2012, 75,000 m³/d RO

Salboukh, Riyadh, Saudi Arabia 2012, 53,040 m³/d RO
 Copiapó, Chile 2012, 51,840 m³/d RO
 Waste Water MBR Plant, Bahrain 2012, 40,000 m³/d Other / Unknown
 Hadera Expansion, Israel 2012, 40,000 m³/d RO
 Minakshi Desalination Plant, India 2012, 40,000 m³/d RO
 Touggourt, Algeria 2012, 37,000 m³/d RO
 Turicorin, India 2012, 31,800 m³/d RO
 Sud Khenifra, Morocco 2012, 30,000 m³/d RO
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 Majis, Oman 2012, 20,000 m³/d RO
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 Tan Tan, Morocco 2012, 8,600 m³/d RO
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 Ad Dur, Bahrain 2011, 218,000 m³/d RO
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 Jorf Lasfar, Morocco 2011, 75,800 m³/d RO
 Valdelentisco Expansion, Murcia, Spain 2011, 65,000 m³/d RO
 Marina Baja, Alicante, Spain 2011, 48,000 m³/d RO
 Limassol, Cyprus 2011, 40,000 m³/d RO
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 Sohar Industrial Port (Majis), Oman 2011, 16,000 m³/d RO
 Kap Verde, Cabo Verde 2011, 5,000 m³/d RO
 Shuqaiq Hail, Saudi Arabia 2010, 132,000 m³/d Other / Unknown
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 Chino II, Riverside County, CA, United States 2010, 26,000 m³/d RO
 Isla Praia Expansion, Cabo Verde 2010, 5,000 m³/d RO

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In parallel to our desalination expertise, Torishima is a world leader in the supply of pumping equipment for the water and wastewater industry.

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Al Jubail Desalination Plant Phase 2, Jubail, Saudi Arabia 2022, 400,000 m³/d RO
Sfax SWRO Plant 100MLD, Tunisia 2022, 100,000 m³/d RO
Al Khobar, Saudi Arabia 2021, 600,000 m³/d RO
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Jubail 3B, Al Jubail, Saudi Arabia 2021, 570,000 m³/d RO
Yanbu 4, Yanbu, Saudi Arabia 2021, 450,000 m³/d RO
Jubail 2, Saudi Arabia 2021, 400,000 m³/d RO
Al Arish, Egypt 2021, 100,000 m³/d RO
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Al Khobar SWRO Desalination Plant, Saudi Arabia 2020, 210,000 m³/d RO
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Rabigh SWRO Desalination Plant, Saudi Arabia 2019, 600,000 m³/d RO
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Planta Desalinizadora de Aqua de Mar Valle de Copiapo, Copiapo, Chile 2012, 52,000 m³/d RO
Khoms Desalination Plant, Libya 2012, 43,680 m³/d MSF
Qingdao, China 2011, 100,000 m³/d RO
Magtaa, Oran, Algeria 2010, 500,000 m³/d RO
Shuweihat S2 IWPP, Abu Dhabi, United Arab Emirates 2010, 500,000 m³/d MSF
Victorian Desalination Plant, Melbourne, Victoria, Australia 2010, 411,000 m³/d RO
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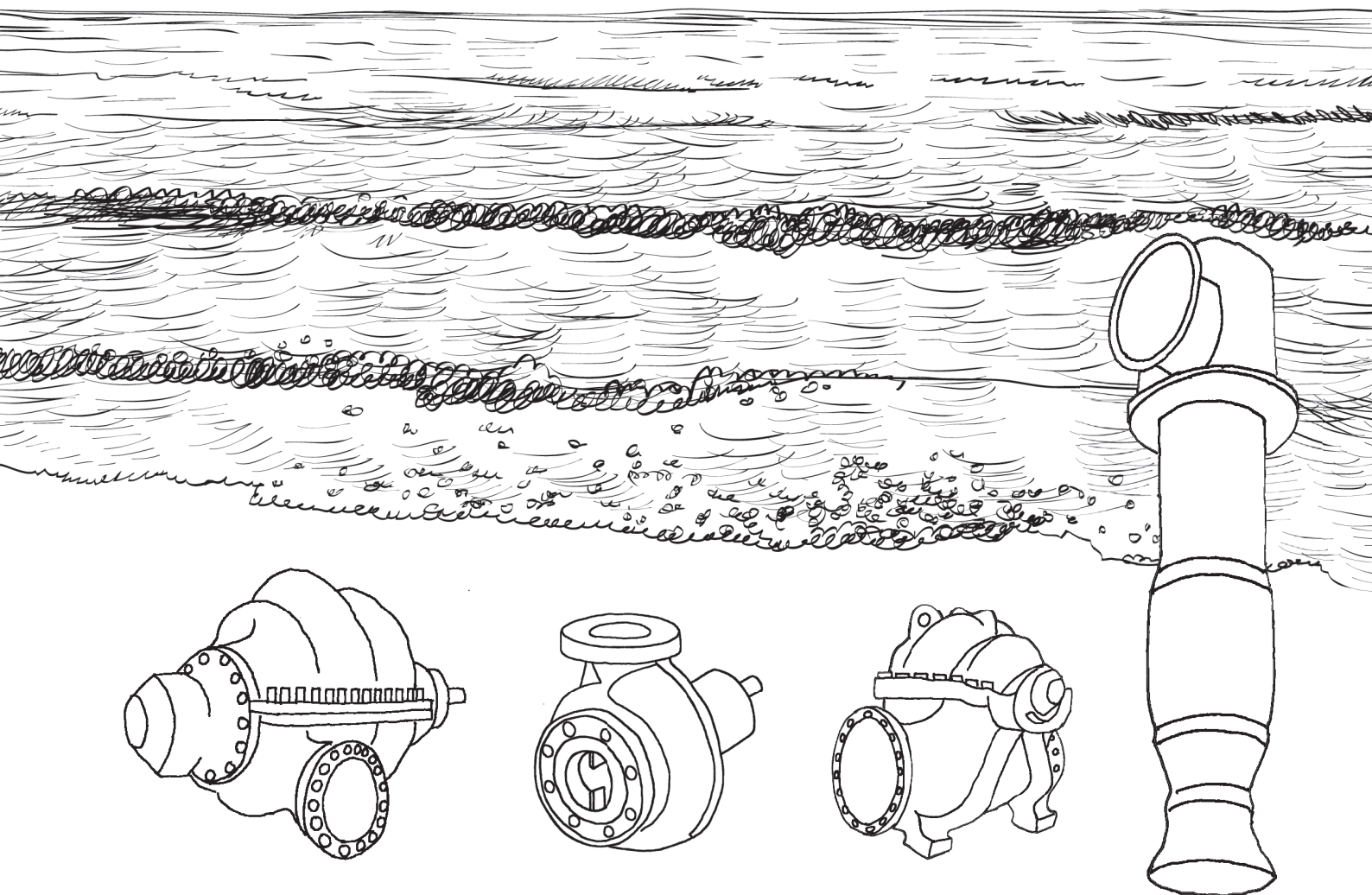
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RO/NF Membranes

Selected references since 2012 from companies supplying reverse osmosis (RO) or nanofiltration (NF) membranes to desalination or reuse projects.

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SELECTED REFERENCES

Developer and Equipment Supplier: Membranes

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Equipment Supplier: Membranes

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Xizang Aliraguo Resources Company Salt lake-based Lithium Extraction Project, Tibet, China, 2 million m³/yr RO

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SELECTED REFERENCES

Equipment Supplier: RO Membranes

GIDC Dahej Desalination - Gujarat (EPC), Dahej, India 2023, 100,000 m³/d RO

Nigeria Industrial Fertilizer Facility, Nigeria 2022, 70,608 m³/d Other / Unknown

Hangfeng WTP, Zhejiang, China 2021, 100,008 m³/d RO

Industrial Refinery Facility, India 2021, 78,240 m³/d Other / Unknown

Industrial Petrochemical Facility, India 2021, 78,240 m³/d Other / Unknown

Industrial Mining Facility, Chile 2021, 76,800 m³/d Other / Unknown

Industrial Mining Facility, Chile 2021, 72,000 m³/d Other / Unknown

Carlsberg Group, Fredericia, Denmark 2021, 1,992 m³/d Other / Unknown

Municipal Drinking Water Facility, Morocco 2020, 646,704 m³/d Other / Unknown

Shafdan Wastewater Treatment Plant, Ugadan, Israel 2020, 350,000 m³/d RO

Luxembourg Municipal Drinking Water Facility, Luxembourg 2020, 123,000 m³/d Other / Unknown

Atacama Desalination Plant, Atacama, Chile 2020, 83,376 m³/d UF

Benxi Plant & Beiyang Plant, Benxi, Liaoning, China 2020, 41,400 m³/d RO

Drinking Water Facility, China 2019, 199,992 m³/d Other / Unknown

Municipal Drinking Water Facility, Oman 2019, 170,544 m³/d Other / Unknown

Municipal Wastewater/Reuse Facility, China 2019, 169,992 m³/d Other / Unknown

Jurong Island Desalination Plant, Singapore 2019, 139,200 m³/d RO

Quebrada Blanca Phase 2, Punta Patache, Chile 2019, 102,240 m³/d RO

Industrial Facility, China 2019, 100,800 m³/d Other / Unknown

Municipal Drinking Water Facility, France 2019, 100,008 m³/d Other / Unknown

Zhangjiagang No.4 WTP, China 2019, 100,000 m³/d NF

Industrial Electronics Facility, South Korea 2019, 97,992 m³/d Other / Unknown
 Municipal Drinking Water Facility, Chile 2019, 83,376 m³/d Other / Unknown
 Chino Basin Desalter Authority, Montclair, California, United States 2019, 81,000 m³/d RO
 Shandong Chenming Paper Holdings Limited, Shouguang, China 2019, 79,992 m³/d RO
 CHN Energy, Ningxia, China 2019, 72,000 m³/d RO
 Chenming Huanggang, Huanggang, Hubei, China 2019, 60,000 m³/d RO
 Chenming Zhanjiang, Zhanjiang, Guangdong, China 2019, 50,000 m³/d RO
 Laayoune SWRO, Morocco 2019, 26,000 m³/d RO
 Vertical Knits, Yucatán, Mexico 2019, 24,000 m³/d RO
 Doha Phase 1, Kuwait 2018, 227,300 m³/d RO
 Tampa Bay Desalination Plant, Florida, United States 2018, 95,000 m³/d RO
 Indian River Water, Indian River, Florida, United States 2018, 80,000 m³/d RO
 Koyambedu, Chennai, Tamil Nadu, India 2018, 45,000 m³/d RO
 Fargonaazot, Uzbekistan 2018, 24,000 m³/d RO
 AbuZabal Waste Water Reuse, Cairo, Egypt 2018, 2,000 m³/d RO
 Barka 4 IWP, Oman 2017, 281,000 m³/d RO
 Shandong Chuanyang Iron & Steel company, Zouping, China 2017, 3,600 m³/d RO
 OCP Jorf Lasfar desalination plant, Jorf Lasfar, Morocco 2016, 75,800 m³/d RO
 Orange County Water District, California, United States 2015, 379,000 m³/d RO
 GNPowder Mariveles Coal Plant, Mariveles, Philippines 2015, 5,304 m³/d RO
 Shaanxi Yanchang Zhongmei Yulin Energy & Chemical Plant, Jingbian, China 2013, 21,600 m³/d RO

Equipment Supplier: UF Membranes for RO Pretreatment (Inge, now under DuPont™ IntegraTec™ brand)

ONEE, Ministry of Agriculture, Agadir, Morocco 2020, 646,704 m³/d UF
 Zhenhai, China 2019, 100,800 m³/d Other / Unknown
 Atacama, Chile 2019, 83,376 m³/d Other / Unknown
 Emaar, the Economic City, King Abdullah Economic City, Saudi Arabia 2019, 74,880 m³/d UF
 King Abdullah Economic City, Saudi Arabia 2019, 30,000 m³/d
 China 2017, 37,992 m³/d RO
 Duliajan-Assam, Dibrugarh, Assam, India 2017, 3,696 m³/d
 Jazan, Saudi Arabia 2016, 168,000 m³/d RO
 Manila, Philippines 2016, 150,000 m³/d RO
 Jamnagar, India 2015, 456,000 m³/d RO
 Accra, Ghana 2014, 60,000 m³/d RO
 Mangalore, India 2014, 21,600 m³/d RO
 Dubai, United Arab Emirates 2014, 931 m³/d
 Jamnagar, Gujarat, India 2013, 168,000 m³/d RO
 Off-shore, Angola 2013, 62,000 m³/d RO
 Kochi, India 2013, 28,800 m³/d RO
 India 2013, 28,000 m³/d RO
 Phuket, Thailand 2013, 25,000 m³/d RO
 Konya, Turkey 2013, 20,400 m³/d RO
 Jeddah, Saudi Arabia 2013, 19,296 m³/d RO
 Balkhash, Kazakhstan 2013, 10,000 m³/d RO
 Tangshan, China 2012, 110,000 m³/d RO
 Dongguan, Guangdong, China 2012, 65,000 m³/d RO

China, 110,016 m³/d
 United Arab Emirates, 84,000 m³/d
 Turkmenistan, 58,320 m³/d
 Turkey, 57,600 m³/d
 Ukraine, 48,000 m³/d
 Germany, 38,400 m³/d
 Hungary, 36,000 m³/d
 Egypt, 34,320 m³/d
 Thailand, 24,984 m³/d
 U.S.A., 9,000 m³/d

Equipment Supplier: MF/UF Membranes

Umm Al Houli, Doha, Qatar 2022, 674,400 m³/d UF
 Tuas Desalination Plant, Singapore 2021, 760,008 m³/d UF
 Al Asilah Desalination, Sharqiyah, Oman 2019, 170,544 m³/d UF
 Al Roubeaky MLD plant, Egypt 2019, 5,000 m³/d RO
 CRCW, United States 2017, 87,000 m³/d UF
 Saudi Pretreatment RO Wastewater Facility, Saudi Arabia 2017, 85,200 m³/d RO
 Mery sur Oise, Val-d'Oise, Île-de-France, France 2017, 70,000 m³/d NF
 Djerba, Tunisia 2017, 50,000 m³/d RO
 Shandong Power Plant, Shandong, China 2017, 36,000 m³/d RO
 Tar Power Plant, Pakistan 2017, 35,000 m³/d RO
 Moho Nord, Republic of Congo 2017, 35,000 m³/d NF
 Sicagen, Chennai, India 2017, 30,000 m³/d UF
 Oil Field Water, Russia 2017, 28,000 m³/d RO
 Aktau, Kazakhstan 2017, 25,000 m³/d RO
 Dickinson, United States 2017, 22,750 m³/d UF
 Hebei Seawater desalination plant, Hebei, China 2017, 22,500 m³/d RO
 Xinjiang Drinking Water Plant, Xinjiang, China 2017, 20,000 m³/d NF
 Temirtau, Kazakhstan 2017, 18,000 m³/d RO
 Bahia Blanca, Argentina 2017, 15,600 m³/d UF
 Shandong chemical plant MLD project, Shandong, China 2017, 15,000 m³/d RO
 Saras Refinery, Saras, Italy 2017, 12,000 m³/d RO+deionisation
 Charles Meyer Desalination Plant Refit, Santa Barbara, United States 2017, 10,475 m³/d RO
 Sinar Mas Group OKI, Indonesia 2016, 200,000 m³/d RO
 France Municipal Drinking Water Facility, France 2016, 150,000 m³/d Other / Unknown
 Drinking Water Facility, China 2016, 105,000 m³/d Other / Unknown
 Zhongwei Zero Liquid Discharge Project, Zhongwei, Ningxia province, China 2016, 13,500 m³/d RO
 Johanneslöt, Gävle, Sweden 2016, 8,640 m³/d NF
 SAFI Water, United Arab Emirates 2016, 2,000 m³/d RO
 KEMYA, Al Jubail, Eastern province, Saudi Arabia 2016, 1,056 m³/d RO
 Claude "Bud" Lewis Carlsbad Desalination, CA, United States 2015, 190,000 m³/d RO
 Sadara, Saudi Arabia 2015, 179,390 m³/d RO
 Jamnagar, India 2015, 168,000 m³/d RO
 Municipal Drinking Water Facility, United States 2015, 79,200 m³/d Other / Unknown
 Municipal Drinking Water Facility, France 2015, 60,000 m³/d Other / Unknown
 Larnaca Renovation, Cyprus 2015, 60,000 m³/d RO

Philippines Municipal Drinking Water Facility, Philippines 2015, 50,040 m³/d Other / Unknown
 Angamos, Chile 2015, 11,796 m³/d UF
 Kiev, Ukraine 2015, 9,000 m³/d RO+deionisation
 Ghana Municipal Drinking Water Facility, Ghana 2014, 135,000 m³/d Other / Unknown
 Jorf Lasfar OCP, Jorf Lasfar, Morocco 2014, 76,566 m³/d RO
 Barka, Oman 2014, 45,000 m³/d RO
 POSCO, Gwang-yang, South Korea 2014, 30,000 m³/d RO
 Mantoverde phase I, Mantoverde, Chile 2014, 10,368 m³/d RO
 Guizhou, Guizhou province, China 2014, 1,200 m³/d RO
 Gansu, Baiyin, Gansu province, China 2014, 1,000 m³/d RO
 Ceyranbatan, Baku, Azerbaijan 2013, 520,000 m³/d UF
 Vasilikos, Cyprus 2013, 60,000 m³/d RO
 Oasis, United States 2013, 32,210 m³/d UF
 Maspalomas, Canary Islands, Spain 2013, 32,000 m³/d RO
 Fountain Hills Sanitary District, AZ, United States 2013, 18,800 m³/d UF
 Maithon Power, Dhanbad, Jharkhand, India 2013, 10,800 m³/d RO
 Erdos, Dongsheng District, Mongolia 2012, 120,000 m³/d NF
 Episkopi, Cyprus 2012, 100,000 m³/d RO
 CRP, Caracas, Venezuela 2012, 74,880 m³/d RO
 Pakistan Municipal, Pakistan 2012, 57,600 m³/d Other / Unknown
 Chanaral, Chile 2012, 25,000 m³/d RO
 Whyalla, Australia 2012, 13,680 m³/d RO
 Orange County GWRS, United States, 700,300 m³/d UF
 Adelaide Desalination, Australia, 626,000 m³/d UF
 Souther Seawater Desalination, Australia, 360,000 m³/d UF
 Jurong Island Desalination Plant UF, Singapore 2019, 207,000 m³/d UF
 HERA Rimini, Italy, 152,472 m³/d MBR
 Geoduk, South Korea, 140,000 m³/d MBR
 Changsha Chengnan, China, 140,000 m³/d UF
 City of Stockton, United States, 136,275 m³/d UF
 City of Highland Park, United State, 113,560 m³/d UF
 Townsville, Australia, 100,224 m³/d MBR
 Shek Wu Hui, Hong Kong, 80,000 m³/d MBR
 City of Forest Park, United States, 52,900 m³/d UF
 Modesto Jennings WWTP, United States, 47,696 m³/d MBR
 Morgantown Star City WWTP, United States, 47,696 m³/d MBR
 Liuheng Power Plant, China, 44,300 m³/d UF
 Songdo, South Korea, 42,500 m³/d MBR
 Semirara, Philippines, 35,000 m³/d UF
 Santa Margherita Ligure, Italy, 21,599 m³/d UF
 Yuzhong Energy, China, 13,000 m³/d UF
 Yuedian Shaoguan, China, 11,500 m³/d UF
 Changi Newater, Singapore, 316,000 m³/d
 Formosa Plastics, Taiwan, 105,000 m³/d RO
 Gippsland Water Factory, Australia, 44,000 m³/d MBR

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EPC Contractor, Membrane and Pretreatment Supplier

Ningbo Seawater Desalination System, Ningbo, Zhejiang, China 2022, 12,000 m³/d RO

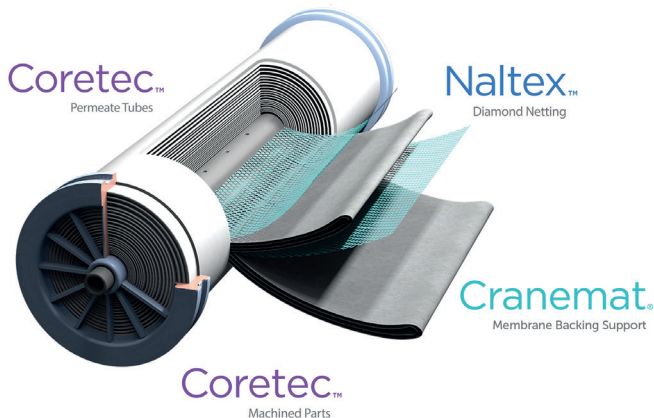
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Given the tremendous volume of water processed by RO plants, as well as the extremely high energy costs, even small improvements in efficiency can translate into large savings or increased product water output. You can trust GESSNER to provide the highest quality components to minimize pressure drop, biofouling, and overall energy needs. With our portfolio we can provide many solutions for RO filter elements, such as Naltex™ feed spacers, Cranemat® membrane backing support, Coretec™ permeate tubes, and Coretec™ machined parts.



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- High flexibility in production
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Shandong Xinhecheng Chemical Water Treatment System, Weifang, Shandong, China 2022, 9,600 m³/d RO

Xinte Energy Huaidong Industrial Park Demineralization Project, Hami, Xinjiang, China 2022, 5,232 m³/d RO

Shandong Xinhecheng Chemical Water Treatment System, Weifang, Shandong, China 2022, 4,800 m³/d RO

Xinte Energy Huaidong Industrial Park Demineralization Project, Hami, Xinjiang, China 2022, 3,840 m³/d RO

Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station, Zigong, Sichuan, China 2022, 3,600 m³/d RO

Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station, Zigong, Sichuan, China 2022, 2,520 m³/d RO

Jiatong Reclaimed Water Reuse IEPCC Project, Nantong, Jiangsu, China 2021, 43,200 m³/d RO

Binhai Thermal Power Plant, Shaoxing, China 2021, 19,200 m³/d RO

Lianjiang Nuclear Power Project, Guangzhou, China 2021, 9,600 m³/d RO

Xinjiang Guanghui Wastewater Capacity Expansion and Emission Reduction Project, Xinjiang, China 2021, 8,952 m³/d RO

Methanol Project Seawater Desalination Station Project, Russia 2020, 5,184 m³/d RO

Shanxi Jinmei Tianyuan Chemical Co., Ltd. Wastewater Zero Discharge Technical Reform Project, Jincheng, Shanxi, China 2020, 3,600 m³/d RO

Zhenjiang New Sodium Acid Wastewater Comprehensive Utilization Project, Zhenjiang, Jiangsu, China 2020, 250 m³/d RO

Equipment Supplier: Membranes

Reuse project, Lianyungang, Jiangsu, China 2023, 100,000 m³/d
Other / Unknown

Membrane treatment system of sodium sulfate recovery project in a perfume enterprise, Jining, Shandong, China 2022, 7,700 m³/d RO

Oceanside IPR, California, United States 2020, 11,355 m³/d RO

Town Square TSE Polishing, United Arab Emirates 2020, 1,600 m³/d RO

Silicon Park TSE Polishing, United Arab Emirates 2020, 960 m³/d RO

GWRS Phase III, CA, Orange County, California, United States 2019, 113,500 m³/d RO

Jazan, Saudi Arabia 2019, 81,000 m³/d RO

Dangote Fertilizer, Nigeria 2019, 81,000 m³/d RO

TPL, India 2019, 52,000 m³/d RO

Reliance, India 2019, 24,000 m³/d RO

Adani Power SWRO Mundra, India 2019, 20,000 m³/d RO

Kuwait Oil Corporation, Kuwait 2019, 20,000 m³/d RO

Dholera, India 2019, 16,000 m³/d RO

Emirates Palace, United Arab Emirates 2019, 13,750 m³/d RO

PT Dabi, Indonesia 2019, 4,500 m³/d RO

Jebel Ali, Dubai, United Arab Emirates 2018, 200,000 m³/d RO

Oman SUR extension, Sur, Oman 2018, 50,000 m³/d RO

JIGCC - Utility & Demin water, Saudi Arabia 2018, 44,000 m³/d RO

Beenyup Phase 2, Perth, Australia 2018, 38,356 m³/d RO

Huizhou Refinery Phase 2, Huizhou, Guangdong province, China 2018, 22,080 m³/d RO

RSPL, India 2018, 12,000 m³/d RO

Sohar Power Plant 3, Oman 2018, 7,776 m³/d RO

University of Kuwait, Kuwait 2018, 7,200 m³/d RO

NTPC Vallur, India 2018, 7,000 m³/d RO

DM Shaheen Power Plant, United Arab Emirates 2018, 5,820 m³/d RO

Sharma Complex, Saudi Arabia 2018, 5,100 m³/d RO

JIGCC - Potable water, Saudi Arabia 2018, 2,400 m³/d RO

Cobden WWTP Upgrades, Ontario, Canada 2018, 1,000 m³/d RO

Qurayyat IWP, Oman 2017, 200,000 m³/d RO

Ningdong Nanhu sewage reuse project, Yinchuan, Ningxia province, China 2017, 30,720 m³/d RO

Nirma Industries, India 2017, 15,400 m³/d RO

WuKuang Yingkou Steel, Yingkou, Liaoning province, China 2017, 29,376 m³/d RO

Pure Water Monterey, Monterey, California, United States 2017, 15,140 m³/d RO

KEMAPCO, Jordan 2017, 13,680 m³/d RO

Meenakshi Power, India 2017, 11,700 m³/d RO

TAC, India 2017, 3,200 m³/d RO

Mirfa IWPP, Abu Dhabi, United Arab Emirates 2016, 138,000 m³/d RO

Qingdao Dongjiakou Desalination, China 2016, 100,000 m³/d RO

Beenyup Groundwater Replenishment Programme, Perth, Western Australia, Australia 2016, 38,356 m³/d RO

Qianan Steel, Qianan, Hebei province, China 2016, 31,200 m³/d RO

Shanxi Jincheng Anthracite Mining Group Co., Ltd. Beishidian Sewage plant, Jincheng, Shanxi province, China 2016, 20,000 m³/d RO

Handan Steel, Handan, Hebei province, China 2016, 18,000 m³/d RO

Xinjiang Wujiagu Fufeng Biological, Wujiagu, Xinjiang, China 2016, 15,000 m³/d RO

Guanghui Industry Hami Plant, Hami, Xinjiang province, China 2016, 10,000 m³/d RO

Minergy, Philippines 2016, 3,000 m³/d RO

Duqm Desalination Plant, Oman 2016, 2,000 m³/d RO

Padre Dam Advanced Water Purification Facility, Santee, California, United States 2016, 70 m³/d RO

Barka I Phase 2, Oman 2015, 56,900 m³/d RO

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Equipment Supplier: RO Membranes

Spence, Chile 2020, 88,000 m³/d RO

Lima Sur, Peru 2020, 77,760 m³/d RO

Sousse, Tunisia 2020, 50,000 m³/d RO

Dubal, Saudi Arabia 2020, 41,000 m³/d RO

Atacama, Chile 2020, 40,000 m³/d RO

Duqm, United Arab Emirates 2020, 32,000 m³/d RO

Laayoun, Morocco 2020, 25,000 m³/d RO

Talara, Peru 2020, 18,000 m³/d RO

ONGC, India 2020, 16,200 m³/d RO

Gazze 2, Palestine 2020, 15,000 m³/d RO

Kalinganagar, India 2020, 12,000 m³/d RO

Tuticorin, India 2015, 56,880 m³/d RO
 Terminal Island WRF expansion, Los Angeles, California, United States 2015, 22,710 m³/d RO
 Liaoyang Guocheng thermal power plant, Liaoyang, Liaoning province, China 2015, 13,000 m³/d RO
 EMAL expansion, United Arab Emirates 2015, 5,760 m³/d RO
 Tabuk Cement, Saudi Arabia 2015, 1,500 m³/d RO
 WTP Pilot Unit, Greece 2015, 200 m³/d RO
 Al-Hamriyah Power Station, United Arab Emirates 2014, 91,200 m³/d RO
 Moncofar, Spain 2014, 30,300 m³/d RO
 Jubail Phase 2, Saudi Arabia 2014, 23,400 m³/d RO
 Kindasa Expansion, Saudi Arabia 2014, 15,000 m³/d RO
 Romania 2014, 13,200 m³/d RO
 TPCIL, India 2014, 13,000 m³/d RO
 Majis SWRO, Oman 2014, 12,300 m³/d RO
 IGCAR, India 2014, 9,000 m³/d RO
 Dammam Industrial City-1 WWTP, Dammam, Saudi Arabia 2014, 3,500 m³/d RO
 Majis SWRO, Oman 2014, 3,168 m³/d RO
 Pulp and Paper Manufacturer, United States 2014, 2,180 m³/d RO
 Food & Beverage Manufacturer, United States 2014, 1,680 m³/d RO
 Amsterdam, North Holland, Netherlands 2014, 390 m³/d RO
 Mid American Steel, Oklahoma, United States 2014, 240 m³/d RO
 Large Municipal Water Treatment, United States 2014, 100 m³/d RO
 Sorek, Israel 2013, 205,000 m³/d RO
 Downtown Dubai Development - TSE RO Polishing Plant, Dubai, United Arab Emirates 2013, 20,000 m³/d RO
 Copiapo, Chile 2013, 17,453 m³/d RO
 Majis SWRO, Sohar, Oman 2013, 8,200 m³/d RO
 TPL, India 2013, 2,000 m³/d RO
 Krishnapattanam Port Trust, India 2013, 2,000 m³/d RO
 Gouda, South Holland, Netherlands 2013, 1,240 m³/d RO
 Matrouh, Egypt 2013, 1,020 m³/d RO
 GCC WWTP, Ras Al Khaimah, United Arab Emirates 2013, 1,000 m³/d RO
 Saudi Elastomers Project -U&O/CB and MTBE Decomposition Facilities - Secondary Wastewater Treatment Unit, Al Jubail, Saudi Arabia 2013, 871 m³/d RO
 Vlisco, Ghana 2013, 720 m³/d RO
 Victoria Desalination Plant, Victoria, Australia 2012, 411,000 m³/d RO
 Chennai, India 2012, 100,000 m³/d RO
 Jubail Phase 1 replacement, Saudi Arabia 2012, 50,150 m³/d RO
 Al Zawrah II, United Arab Emirates 2012, 31,850 m³/d RO
 Majis RO Desalination Plant, Sohar, Oman 2012, 16,000 m³/d RO
 TPCIL, India 2012, 13,000 m³/d RO
 Kindasa Water Services B2 Expansion, Saudi Arabia 2012, 8,944 m³/d RO
 Oskol Electrometallurgical Plant, Sary Oskol, Russia 2012, 5,280 m³/d RO
 SOJECO, Saudi Arabia 2012, 2,500 m³/d RO
 Al Buhairat City, Saudi Arabia 2012, 2,500 m³/d RO
 Carboneras, Spain, 120,000 m³/d RO
 Marbella, Spain, 56,000 m³/d RO
 Almeria, Spain, 50,000 m³/d RO
 Adeje Arona, Tenerife, Spain, 22,000 m³/d RO
 DVB, India, India, 2,200 m³/d RO
 ABG Cement, India, 2,000 m³/d RO
 Saurashtra Chemicals, India, RO

Equipment Supplier: RO Membranes and UF Modules






















Emicool TSE Polishing, Dubai, United Arab Emirates 2016, 2,900 m³/d RO
 Arab Center TSE Polishing, Doha, Qatar 2016, 760 m³/d RO
 Majis CETRP, Sohar, Oman 2015, 10,000 m³/d RO
 Lusail TSE Polishing, Doha, Qatar 2015, 6,600 m³/d RO
 West Bay TSE Polishing, Doha, Qatar 2015, 5,000 m³/d RO
 Wafi Mall TSE Polishing, Dubai, United Arab Emirates 2015, 1,000 m³/d RO
 Dubai Parks TSE Polishing, Dubai, United Arab Emirates 2015, 1,000 m³/d RO
 Emaar DCP3, Dubai, United Arab Emirates 2014, 20,160 m³/d RO
 Gulf Cement WWTP, Ras Al Khaimah, United Arab Emirates 2013, 1,000 m³/d RO

Equipment Supplier: RO Membranes, Thin-film-composite

Doha, Qatar 2016, 3,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: RO Membranes

Laguna Lake, Philippines 2023, 150,000 m³/d RO

- Las Palmas III, Spain 2023, 80,000 m³/d RO
 Mar de Alborán, Spain 2023, 60,000 m³/d RO
 Benisaf SWRO, Algeria 2023, 50,000 m³/d RO
 Carboneras retrofit, Spain 2023, 40,000 m³/d RO
 Gwangyang SWRO Project, South Korea 2023, 11,040 m³/d RO
 Escombreras, Spain 2023, 10,000 m³/d RO
 Maspalomas 2, Spain 2023, 10,000 m³/d RO
 Heineken Seville, Spain 2023, 10,000 m³/d RO
 Puerto Rico, Spain 2023, 5,500 m³/d RO
 Saint Martin, France 2023, 5,000 m³/d RO
 LGD Paju, South Korea 2023, 4,000 m³/d RO
 ITC Demonstration Project, Spain 2023, 2,500 m³/d RO
 LA Gomera _ SWRO mobile units, Spain 2023, 2,000 m³/d RO
 Port Elizabeth, South Africa 2023, 2,000 m³/d RO
 Venctor/Huntsman Tioxide, Spain 2023, 1,400 m³/d RO
 Qingdao Befesa SWRO Plant, China 2022, 100,000 m³/d RO
 Corso, Egypt 2022, 82,000 m³/d RO
 Municipality, Algeria 2022, 60,000 m³/d RO
 Tangshan Haigang, China 2022, 50,000 m³/d RO
 LGD Paju, South Korea 2022, 45,000 m³/d RO
 Kindasa, Jeddah Sea Port, Saudi Arabia 2022, 23,600 m³/d RO
 Municipality, Israel 2022, 20,000 m³/d RO
 ETAP La Tordera SWRO (Partial replacement), Spain 2022, 20,000 m³/d RO
 Gwangyang SWRO Project, South Korea 2022, 16,560 m³/d RO
 Coastal Gujarat Pvt Ltd (Tata Power), India 2022, 10,000 m³/d RO
 Municipality, Algeria 2022, 10,000 m³/d RO
 Roque Prieto, Spain 2022, 10,000 m³/d RO
 Stainless steel factory, Italy 2022, 7,500 m³/d RO
 Industrial plant, Turkey 2022, 7,000 m³/d RO
 Industrial plant, Belgium 2022, 4,800 m³/d RO
 Shenwan power plant, China 2022, 2,500 m³/d RO
 Packaging material manufacturer, Spain 2022, 1,600 m³/d RO
 Hinojosa Paper, Spain 2022, 1,600 m³/d RO
 Jurong power plant, China 2022, 1,500 m³/d RO
 Chennai Water Desalination Ltd., India 2021, 100,000 m³/d RO
 Barka V, Oman 2021, 100,000 m³/d RO
 Steel mill, Turkey 2021, 12,000 m³/d RO
 Industrial plant, Israel 2021, 10,000 m³/d RO
 Municipality, Spain 2021, 9,500 m³/d RO
 Hamriyah IPP, United Arab Emirates 2021, 9,400 m³/d RO
 Jianlong steel company, China 2021, 8,000 m³/d RO
 Well water drinking water plant, Israel 2021, 5,000 m³/d RO
 Yueyang paper, China 2021, 5,000 m³/d RO
 Sichuan tongwei solar energy, China 2021, 5,000 m³/d RO
 Sh.Mansour Bin Zayed Office, United Arab Emirates 2021, 5,000 m³/d RO
 Municipality, Turkey 2021, 5,000 m³/d RO
 Multiple refineries, Italy 2021, 4,800 m³/d RO
 Aguas Altiplano, Chile 2021, 4,700 m³/d RO
 Huajing semi-conductor, China 2021, 3,000 m³/d RO
 Premier Energies Ltd, India 2021, 2,500 m³/d RO
 Containerized SWRO system, Israel 2021, 1,200 m³/d RO
 Udipi Power (Adani Power), India 2020, 10,000 m³/d RO
 Al Khobar II, Saudi Arabia 2020, 636,000 m³/d RO
 Al Jubail II, Saudi Arabia 2020, 404,000 m³/d RO
 Barges, Saudi Arabia 2020, 150,000 m³/d RO
 Al Arish Phase I, Egypt 2020, 100,000 m³/d RO
 Linhai Wastewater Reclaimed Plant, Taiwan 2020, 77,000 m³/d RO
 China Coal Yulin Energy & Chemical, China 2020, 10,800 m³/d RO
 Shuqaiq III, Saudi Arabia 2019, 450,000 m³/d RO
 Al Khobar I, Saudi Arabia 2019, 210,000 m³/d RO
 Neom, Saudi Arabia 2019, 125,000 m³/d RO
 Basra, Iraq 2019, 72,000 m³/d RO
 Mansoura, Egypt 2019, 40,000 m³/d RO
 Kipas, Turkey 2019, 38,520 m³/d RO
 Ternium Steel Pesqueria Plant, Mexico 2019, 25,000 m³/d RO
 Sichuan Hebang, China 2019, 16,000 m³/d RO
 PhosAgro, Russia 2019, 12,000 m³/d RO
 Datang Dongying Power Plant, China 2019, 12,000 m³/d RO
 El Alamein, Egypt 2018, 150,000 m³/d RO
 East Port Said I, Egypt 2018, 150,000 m³/d RO
 Salalah, Oman 2018, 120,000 m³/d RO
 Ain Sokhna, Egypt 2018, 100,000 m³/d RO
 King Abdullah Economic City Airport, Saudi Arabia 2018, 60,000 m³/d RO
 Huadian Rugao Power plant, China 2018, 21,600 m³/d RO
 Dongyuan PCB, China 2018, 14,400 m³/d RO
 Huadian Wangting Power Plant, China 2018, 14,400 m³/d RO
 STP, India 2018, 10,000 m³/d RO
 Heesung Electric, China 2018, 10,000 m³/d RO
 El Galalah, Egypt 2017, 150,000 m³/d RO
 Hebei Fengyue Energy Technology Desalination Plant, China 2017, 75,000 m³/d RO
 LG Display Guangzhou Plant, China 2017, 50,000 m³/d RO
 Paju Sewage Reuse System, South Korea 2017, 40,000 m³/d RO
 Atacama, Chile 2017, 40,000 m³/d RO
 Pohang Sewage Reuse System, South Korea 2017, 34,000 m³/d RO
 Xinjiang Qinghua Group Water Treatment Plant, China 2017, 27,000 m³/d RO
 Panipat Refinery and Petrochemical Complex, India 2017, 18,900 m³/d RO
 Datun Power Plant, China 2017, 15,000 m³/d RO
 Coalchemical Industrial DI Water Plant, China 2017, 12,960 m³/d RO
 Sohar, Oman 2016, 250,000 m³/d RO
 Mostaganem, Algeria 2016, 150,000 m³/d RO
 Putatan 2 Drinking Water Plant, Philippines 2016, 150,000 m³/d RO
 NCIC, Egypt 2016, 68,000 m³/d RO
 Las Palmas III, Spain 2016, 57,000 m³/d RO
 Asia Symbol Paper Company, China 2016, 30,000 m³/d RO
 LG Electronics Solar Factory, South Korea 2016, 10,000 m³/d RO
 LG Display DI Plant, South Korea 2015, 125,000 m³/d RO

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 - Singapore +65 6457 7533
 - info@microdyn-nadir.com
- www.water-fluid-filtration.mann-hummel.com

SELECTED REFERENCES

Equipment Supplier: Membranes

Municipal WWTP, Spain, RO
Oil Refinery, Spain, RO

Pall Corporation



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toll free: 001 888 428 5597

www.pall.com

SELECTED REFERENCES

Equipment Supplier: Hollow Fiber Membrane Filtration

West Morgan, United States 2019, 72,737 m³/d RO

Equipment Supplier: MF and RO Membranes

Manila, Philippines 2013, 100,000 m³/d RO

RM Nanotech



- Russia +7 4922 474001
- exports@rmnanotech.ru

www.rmnanotech.ru

SELECTED REFERENCES

Equipment Supplier: Membranes

- Heat and power station 1, Nizhnekamsk, Tatarstan, Russia 2015, 3,984 m³/d RO
- Heat and Power station, Orel, Russia 2015, 3,600 m³/d RO
- Heat and power station 21, Moscow, Russia 2015, 2,400 m³/d RO
- Power station 2, Yuzhnouralsk, Chelyabinks region, Russia 2015, 1,620 m³/d RO
- Lukoil-Permnefteorgsintez, Perm, Russia 2013, 3,000 m³/d RO
- Phosagro, Orel, Russia, 48,000 m³/d RO
- Zainskaya Thermal Power Station, Rostov-On-Don, Russia, 2,880 m³/d RO
- Shaturskaya Gres Power Plant - A Part Of International E.ON Group, Shatura, Russia, 2,400 m³/d RO
- Novocherkassk, Rostov-On-Don, Russia, 2,160 m³/d RO
- Orel Heat and Power Station - Affiliate of JSC "QUADRA", Orel, Russia, 2,160 m³/d RO
- Volgograd Central Heating and Power Plant, Volgograd, Russia, 2,160 m³/d RO
- Nizhnelamsk Heat and Power Station 1 - Affiliate of TGK-16, Nizhnelamsk, Russia, 2,040 m³/d RO
- Kazan Central Heating and Power Plant, Kazan, Russia, 1,440 m³/d RO
- JSC "METRAFRAX", Perm, Russia, 840 m³/d RO
- RM Nanotech JSC, Vladimir, Vladimir Region, Russia, 297,000,000 gpd RO
- RM Nanotech JSC, Vladimir, Vladimir Region, Russia, 33,000,000 gpd RO

Scinor Membrane Technology



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SELECTED REFERENCES

Equipment Supplier: RO Membranes

- Zhejiang Zheneng China coal Zhoushan Coal Power plant phase II seawater desalination project, Zhejiang, Zhoushan, China 2022, 30,000 m³/d RO
- Beijing BDA East Regeneration Water Plant, Beijing, China 2012, 10,000 m³/d RO

Equipment Supplier: Membranes (Replacement)

Hualu Hengsheng Chemical Co., Ltd. water vapor workshop,
Shandong, China 2018, 18,000 m³/d RO
Orange County Water District, Los Angeles, California, United
States 2018, 18,000 m³/d RO
West Basin Municipal Water District, Los Angeles, California,
United States 2017, 48,000 m³/d RO

Toyobo MC Corporation



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SELECTED REFERENCES

Equipment Supplier: Membranes

Saudi Arabia SWRO, Saudi Arabia 2023, 750 m³/d RO
Rabigh IWSP Phase II, Rabigh, Saudi Arabia 2015, 108,000 m³/d
RO
Ras Al Khair, Saudi Arabia 2014, 345,000 m³/d RO
Jeddah 3, Saudi Arabia 2013, 260,000 m³/d RO
Ras Abu Jarjur, Bahrain 2012, 7,200 m³/d RO

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www.csmfilter.com



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Toray RO: High-performance RO membrane elements that feature durable membrane chemistries for reliable and efficient operation (<https://www.water.toray/products/ro/>)

Toray UF: Hollow-fiber PVDF UF membranes with a 0.01 µm nominal pore size boast one of the industry's strongest fibers (<https://www.water.toray/products/uf/>)

Toray MBR: Flat-sheet PVDF MBR handles high suspended solids loading and produces high-quality effluent (<https://www.water.toray/products/mbr/>)]

Toray RO/NF/CSM™: RO/NF membrane elements for production of potable water (<http://www.csmfilter.com/>)

Specialty and Dairy: Spiral-wound RO, NF, UF, MF and heat-sanitizable membrane elements for dairy and specialty separations (<https://www.water.toray/products/specialty/>)

RPI Antiscalants: ROPUR RPI® Antiscalants for RO system (<https://ropur.com/>)

SELECTED REFERENCES

Equipment Supplier: Desalination System

Munifa, Nabyah, Eastern, Saudi Arabia 2022, 20,000 m³/d RO
 2nd Industrial City, Eastern, Saudi Arabia 2022, 20,000 m³/d RO
 SANG Plant, Riyadh, Saudi Arabia 2022, 15,000 m³/d RO
 Ma'aden, Eastern, Saudi Arabia 2022, 15,000 m³/d RO
 Ma'aden, Eastern, Saudi Arabia 2022, 15,000 m³/d RO
 Wadi dawasir/ Riyadh / NWC, Riyadh, Saudi Arabia 2022, 12,000 m³/d RO
 Aflag RO Plant, Riyadh, Saudi Arabia 2022, 10,000 m³/d RO
 Nadec Dairy, Riyadh, Saudi Arabia 2022, 5,000 m³/d RO
 Saudi Airline plant, Jeddah, Saudi Arabia 2022, 5,000 m³/d RO
 Almarai Farms, Riyadh, Saudi Arabia 2022, 5,000 m³/d RO
 Dhurma / Riyadh / NWC, Riyadh, Saudi Arabia 2022, 5,000 m³/d RO
 Barri Gas Plant, Eastern, Saudi Arabia 2022, 5,000 m³/d RO
 Salwa , Batha, Eastern, Saudi Arabia 2022, 5,000 m³/d RO
 Khrasanyah, Eastern, Saudi Arabia 2022, 4,000 m³/d RO
 SEC Riyadh, Riyadh, Saudi Arabia 2022, 3,500 m³/d RO
 Wadi dawasir/ Riyadh / MOD, Riyadh, Saudi Arabia 2022, 3,500 m³/d RO
 SEC Riyadh, Jeddah, Saudi Arabia 2022, 3,000 m³/d RO
 Suliman Enizi Plant, Riyadh, Saudi Arabia 2022, 2,000 m³/d RO
 Huyndai, Eastern, Saudi Arabia 2022, 1,000 m³/d RO
 Jubail 3A, Eastern, Saudi Arabia 2020, 600,000 m³/d RO
 Al Dur 2 IWPP, Al Dur, Bahrain 2019, 227,000 m³/d RO

Equipment Supplier: Membranes

Containerized BWRO/MEW, Kuwait 2023, 15,000 m³/d RO
 Water Reclamation KN3, Singapore 2023, 7,584 m³/d RO
 Some chemical plant, Guizhou province, China 2023, 4,000 m³/d RO
 Some power plant, Guangdong province, China 2023, 4,000 m³/d RO
 Some coal chemical plant, Shanxi province, China 2023, 3,400 m³/d RO
 Industrial Electronic FN, Ho Chi Minh, Vietnam 2023, 2,700 m³/d MBR
 Industrial SMM, Gresik, Indonesia 2023, 1,440 m³/d RO
 Safaga, Egypt 2023, 1,200 m³/d RO
 North Coast, Egypt 2023, 1,200 m³/d RO
 Industrial textile STY, Karachi, Pakistan 2023, 1,080 m³/d MBR
 UAE 2022, 683,500 m³/d RO
 Argelia 2022, 200,000 m³/d RO
 UAE 2022, 170,500 m³/d RO
 China 2022, 136,000 m³/d RO
 Spain 2022, 120,000 m³/d RO
 Argelia 2022, 100,000 m³/d RO
 Spain 2022, 63,000 m³/d RO

Ghana 2022, 60,000 m³/d RO
 Industrial Adan, Gujarat, India 2022, 33,000 m³/d RO
 Some power plant, Hubei province, China 2022, 22,000 m³/d RO
 Turkey 2022, 21,216 m³/d RO
 Containerized SWRO, Neom, Saudi Arabia 2022, 21,000 m³/d RO
 Some Chemical Plant, Xinjiang province, China 2022, 20,000 m³/d RO
 Some Textile Plant, Guangdong province, China 2022, 20,000 m³/d
 Water Reclamation SW, Wollongong, Australia 2022, 20,000 m³/d RO
 Some steel plant, Neimenggu province, China 2022, 18,000 m³/d RO
 Some paper plant, Fujian province, China 2022, 14,500 m³/d RO
 Some coal chemical plant, Neimenggu province, China 2022, 9,900 m³/d RO
 Russia 2022, 9,600 m³/d RO
 South Africa 2022, 9,018 m³/d RO
 Some Chemical Plant, Ningxia province, China 2022, 8,600 m³/d RO
 Some power plant, Shandong province, China 2022, 8,300 m³/d RO
 Some steel plant, Neimenggu province, China 2022, 7,900 m³/d RO
 Some electronic plant, Chongqing, China 2022, 7,700 m³/d RO
 Drinking Water Plant, Austria 2022, 7,680 m³/d RO
 Some electronic plant, Jiangsu province, China 2022, 7,300 m³/d RO
 Some textile plant, Jiangsu province, China 2022, 7,200 m³/d RO
 Some Chemical Plant, Sichuan province, China 2022, 6,500 m³/d RO
 Some new energy projects, Gansu province, China 2022, 6,500 m³/d RO
 Kazakhstan 2022, 6,480 m³/d RO
 HH.SHK. Mansoor Bin Zayed Al-Nahyan Palace, Fujairah, United Arab Emirates 2022, 5,500 m³/d RO
 Process Plant, Germany 2022, 5,400 m³/d RO
 Industrial WHAES, Bangkok, Thailand 2022, 4,000 m³/d RO
 Some Food And Beverage Plant, Hainan province, China 2022, 3,000 m³/d RO
 Sokhna, Egypt 2022, 3,000 m³/d RO
 Some food and beverage plant, Liaoning province, China 2022, 3,000 m³/d RO
 Municipal, Cilacap, Indonesia 2022, 2,880 m³/d RO
 Water Reclamation Lang, Ho Chi Minh, Vietnam 2022, 2,500 m³/d MBR
 Some food and beverage plant, Jiangsu province, China 2022, 2,400 m³/d RO
 Some Food And Beverage Plant, Henan province, China 2022, 2,000 m³/d RO
 Some food and beverage plant, Heilongjiang province, China 2022, 2,000 m³/d RO
 Marsa Alam, Egypt 2022, 1,500 m³/d RO
 Industrial textile SURM, Dhaka, Bangladesh 2022, 1,260 m³/d MBR
 North Coast, Egypt 2022, 1,000 m³/d RO
 U.S.A. 2022, 12 m³/d RO
 Some chemical plant, Hubei province, China 2022, NF
 Some municipal wastewater reuse plant, Hubei province, China 2022, MBR
 Some medical plant, Beijing, China 2022
 Some power plant, Guangdong province, China 2022, RO
 Some Municipal Wastewater Reuse Plant, Hebei province, China 2021, 325,000 m³/d

Some Chemical Plant, Hebei province, China 2021, 38,000 m³/d RO

Some Municipal Wastewater Reuse Plant, Anhui province, China 2021, 70,000 m³/d

Some Chemical Plant, Shandong province, China 2021, 45,000 m³/d RO

Some Municipal Wastewater Reuse Plant, Zhejiang province, China 2021, 30,000 m³/d

Some Coal Chemical Plant, Neimeng province, China 2021, 25,800 m³/d RO

Municipal, Manila, Philippines 2021, 25,000 m³/d RO

Some Power Plant, Zhejiang province, China 2021, 21,400 m³/d RO

Some Chemical Plant, Hunan province, China 2021, 18,200 m³/d RO

Some Chemical Plant, Xinjiang province, China 2021, 18,000 m³/d RO

Turkey 2021, 16,224 m³/d RO

Some Steel Plant, Shandong province, China 2021, 16,000 m³/d RO

KAUST Expansion, Jeddah, KAUST, Saudi Arabia 2021, 16,000 m³/d RO

Kazakhstan 2021, 15,360 m³/d RO

Some Electronic Plant, Shanghai province, China 2021, 14,500 m³/d RO

Some Paper Plant, Sichuan province, China 2021, 12,500 m³/d RO

Municipal Wastewater Reuse Plant, Neimenggu province, China 2021, 11,200 m³/d RO

Refuse Landfill, Hebei province, China 2021, 10,200 m³/d RO

Some Chemical Plant, Jiangxi province, China 2021, 10,200 m³/d RO

Chemical Plant, Shandong province, China 2021, 8,752 m³/d RO

Some Power Plant, Jiangsu province, China 2021, 7,500 m³/d RO

Germany 2021, 6,600 m³/d RO

Some Electronic Plant, Guangdong province, China 2021, 6,100 m³/d RO

Some Chemical Plant, Xinjiang province, China 2021, 6,000 m³/d RO

Dammam Industrial Zone 2, Dammam, Saudi Arabia 2021, 5,800 m³/d RO

Poland 2021, 5,700 m³/d RO

Food and Beverage Plant, Guangdong province, China 2021, 4,234 m³/d RO

Germany 2021, 3,100 m³/d RO

Romania 2021, 2,016 m³/d RO

Chemical Plant, Jiangxi province, China 2021, 1,958 m³/d RO

Food and Beverage Plant, Guangdong province, China 2021, 1,901 m³/d RO

Aramco, Jubail, Saudi Arabia 2021, 1,900 m³/d RO

Germany 2021, 1,800 m³/d RO

Hungary 2021, 1,560 m³/d RO

Some Coal Chemical Plant, Shandong province, China 2021, 700 m³/d RO

Drinking Water Plant, Austria 2021, 460 m³/d RO

United Arab Emirates 2020, 681,000.0 m³/d RO

Chemical Plant, Tianjin, China 2020, 46,760 m³/d RO

Textile Plant, Guangdong province, China 2020, 26,765 m³/d RO

Coal Chemical Plant, Ningxia province, China 2020, 24,869 m³/d RO

Drinking Water Plant, Karabük, Turkey 2020, 19,752 m³/d RO

Steel Plant, Shanxi province, China 2020, 19,008 m³/d RO

Seawater Desalination Plant, Zhejiang province, China 2020, 14,113 m³/d RO

Red Sea Development Company, Saudi Arabia 2020, 12,500 m³/d RO

Chemical Plant, Tianjin, China 2020, 14,256 m³/d RO

Chemical Plant, Shanxi province, China 2020, 11,294 m³/d RO

Petrochemical Plant, Gansu, China 2020, 10,800 m³/d RO

Drinking Water Plant, Karabük (Rplc), Turkey 2020, 10,392 m³/d RO

Electronic Plant, Jiangsu province, China 2020, 10,282 m³/d RO

Power Plant, Shandong province, China 2020, 9,979 m³/d RO

Food and Beverage Plant, Zhejiang province, China 2020, 9,878 m³/d RO

Power Plant, Zhejiang province, China 2020, 9,504 m³/d RO

Coal Chemical Plant, Shandong province, China 2020, 9,504 m³/d RO

Power Plant, Jiangxi province, China 2020, 9,409 m³/d RO

Semiconductor UPW Plant, Villach, Austria 2020, 8,700 m³/d RO

Petrochemical Plant, Shandong province, China 2020, 8,640 m³/d RO

Seawater Desalination Plant, Tianjin, China 2020, 8,112 m³/d RO

Coal Chemical Plant, Ningxia, China 2020, 7,900 m³/d RO

Chemical Plant, Neimenggu province, China 2020, 7,589 m³/d RO

Coal Chemical Plant, Hebei province, China 2020, 7,344 m³/d RO

Coal Chemical Plant, Hebei province, China 2020, 7,344 m³/d RO

Taiwan 2020, 7,200 m³/d RO

Electronic Plant, Jiangsu province, China 2020, 6,682 m³/d RO

Beverage plant, Liaoning, China 2020, 6,500 m³/d RO

Petrochemical Plant, Gansu province, China 2020, 6,162 m³/d RO

Refuse Landfill, Beijing, China 2020, 6,120 m³/d RO

Beverage plant, Tianjin, China 2020, 6,100 m³/d RO

Coal Chemical Plant, Xinjiang province, China 2020, 6,083 m³/d RO

Taiwan 2020, 5,600 m³/d RO

Electronic Plant, Guangdong province, China 2020, 5,100 m³/d RO

Coal Chemical Plant, Ningxia province, China 2020, 4,752 m³/d RO

Layyah WTP, United Arab Emirates 2020, 4,000 m³/d RO

Textile Plant, Hebei province, China 2020, 3,917 m³/d RO

Petrochemical Plant, Shandong province, China 2020, 3,672 m³/d RO

Power Plant, Henan, China 2020, 3,600 m³/d RO

Business Bay 3, United Arab Emirates 2020, 3,500 m³/d RO

Beverage plant, Xinjiang, China 2020, 3,500 m³/d RO

Wastewater Treatment Plant, Guangxi, China 2020, 3,500 m³/d RO

Pharmacy Plant, Sichuan, China 2020, 3,200 m³/d RO

Food and Beverage Plant, Shaanxi province, China 2020, 3,110 m³/d RO

Drinking Water Plant, Saint Jean de Braye, France 2020, 3,060 m³/d RO

Drinking Water Plant, Austria 2020, 3,000 m³/d RO

Drinking Water Plant, Austria 2020, 3,000 m³/d RO

Tulin, Austria 2020, 3,000 m³/d RO

Power Plant, Xinjiang province, China 2020, 2,756 m³/d RO

Food and Beverage Plant, Jilin province, China 2020, 2,754 m³/d RO

Petrochemical Plant, Xinjiang province, China 2020, 2,661 m³/d RO

Taiwan 2020, 2,400 m³/d RO

Photovoltaic Power Plant, Henan, China 2020, 2,300 m³/d RO

Food & Beverage Plant, United Arab Emirates 2020, 2,200 m³/d RO

Al Ain, United Arab Emirates 2020, 2,200 m³/d RO

Paper Plant, Guizhou province, China 2020, 2,091 m³/d RO

Mining Plant, Shandong, China 2020, 2,000 m³/d RO

Power Plant, Guizhou, China 2019, 12,000 m³/d RO
 Food and Beverage Plant, Guangdong province, China 2020, 1,901 m³/d RO
 JVC TSE Polishing Plant, United Arab Emirates 2020, 1,800 m³/d RO
 Food & Beverage Plant, Russia 2020, 1,800 m³/d RO
 Refuse Landfill, Guizhou province, China 2020, 1,795 m³/d RO
 Paper Plant, Zhejiang province, China 2020, 1,711 m³/d RO
 Crolle, France 2020, 1,584 m³/d RO
 Refuse Landfill, Guizhou province, China 2020, 1,550 m³/d RO
 Power Plant, Heilongjiang, China 2020, 1,200 m³/d RO
 Taiwan 2020, 1,000 m³/d RO
 Novobirsk, Russia 2020, 1,000 m³/d RO
 Process Plant, Austria 2020, 253 m³/d RO
 Taweelah IWP, Abu Dhabi, Taweelah, United Arab Emirates 2019, 909,200 m³/d RO
 Rabigh-3 IWP, Rabigh, Saudi Arabia 2019, 600,000 m³/d RO
 Bahrain 2019, 227,000.0 m⁴/d RO
 Wastewater Reuse Plant, Tianjin, China 2019, 64,000 m³/d RO
 Power Plant, Guangdong, China 2019, 57,600 m³/d RO
 Coal Chemical Plant, Shanxi, China 2019, 50,400 m³/d RO
 Steel Plant, Shanxi, China 2019, 32,300 m³/d RO
 Power Plant, Shandong, China 2019, 24,000 m³/d RO
 Petrochemical Plant, Shandong, China 2019, 20,800 m³/d RO
 Electric Plant, Guangdong, China 2019, 18,800 m³/d RO
 Textile Plant, Guangdong, China 2019, 17,800 m³/d RO
 Waste water treatment plant, Tianjin, China 2019, 14,000 m³/d RO
 Jiangxi province, China 2019, 12,000 m³/d RO
 Mexico 2019, 10,000 m³/d RO
 Belgium 2019, 9,600 m³/d RO
 Steel Plant, Jiangsu, China 2019, 8,700 m³/d RO
 Power Plant, Zhejiang, China 2019, 8,040 m³/d RO
 Kazakhstan 2019, 8,000 m³/d RO
 Power Plant, Guangdong, China 2019, 7,800 m³/d RO
 Municipal Water Supply Plant, Shandong, China 2019, 6,300 m³/d RO
 Paper plant, Shandong, China 2019, 5,700 m³/d RO
 Ukraine 2019, 5,600 m³/d RO
 Wastewater Treatment Plant, Shanxi, China 2019, 5,040.0 m⁴/d RO
 Russia 2019, 4,800 m³/d RO
 Shanxi province, China 2019, 4,500 m³/d RO
 Steel plant, Shandong province, China 2019, 4,500 m³/d RO
 Buzau, Romania 2019, 4,000 m³/d RO
 Ostroleka, Poland 2019, 3,600 m³/d RO
 Sichuan province, China 2019, 3,500 m³/d RO
 Russia 2019, 3,320 m³/d RO
 Petrochemical plant, Gansu province, China 2019, 3,000 m³/d RO
 Shandong province, China 2019, 3,000 m³/d RO
 Coal chemical plant, Inner Mongolia, China 2019, 3,000 m³/d RO
 Sichuan province, China 2019, 3,000 m³/d RO
 Kyoto, Japan 2019, 3,000 m³/d RO
 Energy plant, Beijing, China 2019, 2,500 m³/d RO
 Ukraine 2019, 2,500 m³/d RO
 Ukraine 2019, 2,400 m³/d RO
 Russia 2019, 2,400 m³/d RO
 Ukraine 2019, 2,200 m³/d RO
 Shaanxi province, China 2019, 2,000 m³/d RO
 Shandong province, China 2019, 2,000 m³/d RO

Electronic plant, Zhejiang province, China 2019, 2,000 m³/d RO
 Liaoning province, China 2019, 1,600 m³/d RO
 Neckartailfingen, Germany 2019, 1,500 m³/d RO
 Tatabanya, Hungary 2019, 1,500 m³/d RO
 Nagano, Japan 2019, 1,500 m³/d RO
 Saitama, Japan 2019, 1,500 m³/d RO
 Ukraine 2019, 1,400 m³/d RO
 Russia 2019, 1,350 m³/d RO
 Dresden, Germany 2019, 1,200 m³/d RO
 Belarus 2019, 1,200 m³/d RO
 Indonesia 2019, 1,200 m³/d RO
 Coal chemical plant, Gansu province, China 2019, 1,200 m³/d RO
 Russia 2019, 1,150 m³/d RO
 Karsruhe, Germany 2019, 1,000 m³/d RO
 Ukraine 2019, 1,000 m³/d RO
 Kazakhstan 2019, 1,000 m³/d RO
 Refuse landfill, Chengdu, Sichuan province, China 2019, 700 m³/d RO
 Shuaibah, Saudi Arabia 2018, 250,000 m³/d RO
 Jizan, Saudi Arabia 2018, 100,000 m³/d RO
 Xian, China 2018, 45,000 m³/d RO
 Mining plant, Inner Mongolia, China 2018, 37,000 m³/d RO
 Coal chemical plant, Xinjiang province, China 2018, 30,000 m³/d RO
 Pyontaek, South Korea 2018, 25,000 m³/d RO
 Thermo-power plant, Shandong province, China 2018, 19,000 m³/d RO
 Ichon, South Korea 2018, 18,000 m³/d RO
 Thermo-power plant, Shandong province, China 2018, 18,000 m³/d RO
 Hefei, China 2018, 15,000 m³/d RO
 Suweon, South Korea 2018, 15,000 m³/d RO
 Municipal Drinking Water, Baden Baden, Germany 2018, 14,400 m³/d RO
 Municipal Drinking Water, Vienna, Austria 2018, 13,018 m³/d RO
 Xian, China 2018, 13,000 m³/d RO
 Ulgjin, South Korea 2018, 12,000 m³/d RO
 RO Project, Kazakhstan 2018, 12,000 m³/d RO
 Food and beverage plant, China 2018, 12,000 m³/d RO
 Ichon, South Korea 2018, 10,000 m³/d RO
 Ningxia province, China 2018, 10,000 m³/d RO
 Petrochemical plant, Shanxi province, China 2018, 10,000 m³/d RO
 Thermo-power plant, Ningxia province, China 2018, 10,000 m³/d RO
 Photovoltaic Power Plant, Jiangsu province, China 2018, 10,000 m³/d RO
 Thermo-power plant, Shandong province, China 2018, 8,000 m³/d RO
 Paper plant, Shandong province, China 2018, 8,000 m³/d RO
 Sakhalin, Russia 2018, 7,200 m³/d RO
 Wuhan, Hubei, China 2018, 7,000 m³/d RO
 Cheongju, South Korea 2018, 7,000 m³/d RO
 Municipal Drinking Water, Quedlinburg, Germany 2018, 7,000 m³/d RO
 Tianjin, China 2018, 7,000 m³/d RO
 BWRO projects, Japan 2018, 6,000 m³/d RO
 South Korea 2018, 6,000 m³/d RO
 Syzran, Russia 2018, 5,400 m³/d RO
 BWRO project, South Korea 2018, 5,000 m³/d RO

Power plant, Shandong province, China 2018, 5,000 m³/d RO
 Power plant, Anhui province, China 2018, 5,000 m³/d RO
 Mining Energy Project, China 2018, 4,950 m³/d RO
 Voronezh, Russia 2018, 4,800 m³/d RO
 Siktifkar, Russia 2018, 4,800 m³/d RO
 BWRO project, Russia 2018, 4,560 m³/d RO
 Ichon, South Korea 2018, 4,500 m³/d RO
 BWRO project, Saudi Arabia 2018, 4,320 m³/d RO
 Goseong, South Korea 2018, 4,000 m³/d RO
 Paper plant, Sichuan province, China 2018, 4,000 m³/d RO
 Waste water treatment plant, Ningxia province, China 2018, 4,000 m³/d RO
 Beverage plant, Hubei province, China 2018, 4,000 m³/d RO
 Mining Group Project, China 2018, 3,780 m³/d RO
 Moscow, Russia 2018, 3,600 m³/d RO
 BOT Project, China 2018, 3,075 m³/d RO
 Precision instrument factory, Jiangsu province, China 2018, 3,000 m³/d RO
 Power plant, Xinjiang province, China 2018, 3,000 m³/d RO
 Power plant, Zhejiang province, China 2018, 3,000 m³/d RO
 Nyergesujfalu, Hungary 2018, 2,600 m³/d RO
 Cement plant, Guangdong province, China 2018, 2,600 m³/d RO
 Henan province, China 2018, 2,500 m³/d RO
 Power plant, Inner Mongolia, China 2018, 2,500 m³/d RO
 Inner Mongolia, China 2018, 2,500 m³/d RO
 Kwangju, South Korea 2018, 2,400 m³/d RO
 Low concentrated saline water RO, Russia 2018, 2,400 m³/d RO
 BWRO, Russia 2018, 2,400 m³/d RO
 Low concentrated saline water RO, Ukraine 2018, 2,400 m³/d RO
 Beverage plant, Guangdong province, China 2018, 2,400 m³/d RO
 Municipal Drinking Water, Vienna, Austria 2018, 2,333 m³/d RO
 Solar Power Plant, Andalucia, Spain 2018, 2,200 m³/d RO
 Chongqing, China 2018, 2,000 m³/d RO
 RO project, South Korea 2018, 2,000 m³/d RO
 Gifu, Japan 2018, 2,000 m³/d RO
 Pyontaek, South Korea 2018, 2,000 m³/d RO
 Shanghai, China 2018, 2,000 m³/d RO
 Metal Industry Plant, Asturias, Spain 2018, 2,000 m³/d RO
 Solar Power Plant, Extremadura, Spain 2018, 2,000 m³/d RO
 Power plant, Anhui province, China 2018, 2,000 m³/d RO
 Hebei province, China 2018, 1,900 m³/d RO
 Heat & Power Plant, China 2018, 1,771 m³/d RO
 Pure water or tap water RO, Japan 2018, 1,700 m³/d RO
 Shizuoka, Japan 2018, 1,600 m³/d RO
 Wuxi, China 2018, 1,500 m³/d RO
 Power Plant, China 2018, 1,425 m³/d RO
 Song-Hau, Vietnam 2018, 1,400 m³/d RO
 Soft Drink Plant, Malaga, Spain 2018, 1,400 m³/d RO
 Soft Drink Plant, Barcelona, Spain 2018, 1,300 m³/d RO
 Energy Company Project, China 2018, 1,233 m³/d RO
 Japan 2018, 1,200 m³/d RO
 Microelectronics Company, China 2018, 1,200 m³/d RO
 Industrial Plant, Extremadura, Spain 2018, 1,200 m³/d RO
 BWRO project, Germany 2018, 1,200 m³/d RO
 Food and Beverage Plants, China 2018, 1,045 m³/d RO
 Gunma, Japan 2018, 1,000 m³/d RO
 Hokkaido, Japan 2018, 1,000 m³/d RO
 Soft Drink Plant, Barcelona, Spain 2018, 1,000 m³/d RO

Power Plant, China 2018, 840 m³/d RO
 Municipal Drinking Water, Walkersdorf, Austria 2018, 972 m³/d RO
 Waste water treatment plant, Tianjin, China 2018, 900 m³/d RO
 Tokushima, Japan 2018, 800 m³/d RO
 Shizuoka, Japan 2018, 800 m³/d RO
 Waste Water Project, China 2018, 792 m³/d RO
 Steel Plant, China 2018, 756 m³/d RO
 Osaka, Japan 2018, 720 m³/d RO
 Countryside Water treatment, China 2018, 700 m³/d RO
 Environment Protection Co., Ltd, China 2018, 630 m³/d RO
 Power plant, Vietnam 2018, 600 m³/d RO
 Pharmaceutical plant, Jiangxi province, China 2018, 600 m³/d RO
 Power Plant, China 2018, 597 m³/d RO
 Food plant, Chengdu, China 2018, 500 m³/d RO
 Kumamoto, Japan 2018, 480 m³/d RO
 Steel Plant, China 2018, 450 m³/d RO
 Textile Plant, China 2018, 415 m³/d RO
 Kyoto, Japan 2018, 400 m³/d RO
 Kagawa, Japan 2018, 400 m³/d RO
 Mie, Japan 2018, 400 m³/d RO
 Power Plant, China 2018, 367 m³/d RO
 Pure water or tap water plant, Japan 2018, 360 m³/d RO
 Ehime, Japan 2018, 360 m³/d RO
 Tokyo, Honshu, Japan 2018, 360 m³/d RO
 Electronics plant, Japan 2018, 360 m³/d RO
 Electronics plant, Japan 2018, 360 m³/d RO
 Japan 2018, 360 m³/d RO
 Aichi, Japan 2018, 360 m³/d RO
 Saitama, Japan 2018, 360 m³/d RO
 Power Plant, China 2018, 324 m³/d RO
 Microelectronics Company, China 2018, 252 m³/d RO
 Miyazaki, Kyushu, Japan 2018, 240 m³/d RO
 Miyazaki, Japan 2018, 240 m³/d RO
 Kanagawa, Japan 2018, 240 m³/d RO
 Fukui, Japan 2018, 240 m³/d RO
 Chemical Plant, China 2018, 222 m³/d RO
 Osaka, Japan 2018, 200 m³/d RO
 Shiga, Japan 2018, 200 m³/d RO
 Gifu, Japan 2018, 200 m³/d RO
 Refuse landfill, Chengdu, Sichuan province, China 2018, 200 m³/d RO
 Gumi, Gyeongsangbukdo, South Korea 2017, 90,000 m³/d RO
 Jubail, Saudi Arabia 2017, 90,000 m³/d RO
 Tabouk, Saudi Arabia 2017, 50,000 m³/d RO
 Chengdu, China 2017, 48,000 m³/d RO
 Industrial, China 2017, 37,783 m³/d RO
 Akhal Valayat, Turkmenistan 2017, 36,000 m³/d RO
 China 2017, 25,401 m³/d RO
 China 2017, 25,401 m³/d RO
 Jubail, Saudi Arabia 2017, 25,000 m³/d RO
 Cheongju, South Korea 2017, 20,000 m³/d RO
 Icheon, South Korea 2017, 16,500 m³/d RO
 China 2017, 13,178 m³/d RO
 China 2017, 12,852 m³/d RO
 Hefei, China 2017, 12,000 m³/d RO
 Icheon, South Korea 2017, 11,000 m³/d RO
 Fujairah, United Arab Emirates 2017, 11,000 m³/d RO

- Wuhan, China 2017, 8,300 m³/d RO
 Hefei, China 2017, 8,000 m³/d RO
 Hwaseong, South Korea 2017, 8,000 m³/d RO
 South Korea 2017, 6,000 m³/d RO
 China 2017, 5,443 m³/d RO
 China 2017, 5,365 m³/d RO
 China 2017, 5,140 m³/d RO
 Saga, Japan 2017, 5,000 m³/d RO
 Philippines 2017, 5,000 m³/d RO
 South Korea 2017, 5,000 m³/d RO
 China 2017, 2,577 m³/d RO
 Buenos Aires, Argentina 2017, 2,500 m³/d RO
 Indonesia 2017, 2,238 m³/d RO
 Indonesia 2017, 2,238 m³/d RO
 Seoul, South Korea 2017, 2,000 m³/d RO
 South Korea 2017, 2,000 m³/d RO
 China 2017, 1,958 m³/d RO
 China 2017, 1,864 m³/d RO
 Malaysia 2017, 1,700 m³/d RO
 South Korea 2017, 1,500 m³/d RO
 Ilsan, South Korea 2017, 1,500 m³/d RO
 Vietnam 2017, 1,400 m³/d RO
 China 2017, 1,360 m³/d RO
 Buenos Aires, Argentina 2017, 1,350 m³/d RO
 China 2017, 1,310 m³/d RO
 Batan, Vietnam 2017, 1,200 m³/d RO
 Tokushima, Japan 2017, 1,200 m³/d RO
 Asan, South Chungcheong, South Korea 2017, 1,150 m³/d RO
 Canary Islands, Fuerteventura, Spain 2017, 1,100 m³/d RO
 Taiwan 2017, 1,080 m³/d RO
 Philippines 2017, 1,000 m³/d RO
 Gunma, Japan 2017, 1,000 m³/d RO
 Kanagawa, Japan 2017, 1,000 m³/d RO
 Gunma, Japan 2017, 960 m³/d RO
 Countryside Water treatment, China 2017, 890 m³/d RO
 Yeongheung, South Korea 2017, 840 m³/d RO
 Power Plant, China 2017, 756 m³/d RO
 Saitama, Japan 2017, 720 m³/d RO
 Kumamoto, Japan 2017, 700 m³/d RO
 Biotechnology Co, Ltd, China 2017, 691 m³/d RO
 Hiroshima, Japan 2017, 600 m³/d RO
 Shizuoka, Japan 2017, 550 m³/d RO
 Nigeria 2017, 480 m³/d RO
 Kanagawa, Japan 2017, 480 m³/d RO
 Shiga, Japan 2017, 480 m³/d RO
 Kanagawa, Japan 2017, 400 m³/d RO
 Miyagi, Japan 2017, 360 m³/d RO
 Japan 2017, 360 m³/d RO
 Ehime, Japan 2017, 360 m³/d RO
 Fukushima, Japan 2017, 360 m³/d RO
 Philippines 2017, 360 m³/d RO
 Toyama, Japan 2017, 360 m³/d RO
 Philippines 2017, 360 m³/d RO
 Textile Plant, China 2017, 360 m³/d RO
 Ibaragi, Japan 2017, 330 m³/d RO
 RO reuse, Japan 2017, 300 m³/d RO
 Shizuoka, Japan 2017, 300 m³/d RO
 Kumamoto, Japan 2017, 300 m³/d RO
 Shimane, Japan 2017, 300 m³/d RO
 Miyazaki, Japan 2017, 240 m³/d RO
 Fukui, Japan 2017, 240 m³/d RO
 Tokyo, Japan 2017, 240 m³/d RO
 Aichi, Japan 2017, 240 m³/d RO
 Shizuoka, Japan 2017, 240 m³/d RO
 Tochigi, Japan 2017, 180 m³/d RO
 Vietnam 2017, 160 m³/d RO
 Ibaragi, Japan 2017, 120 m³/d RO
 Buenos Aires, Argentina 2017, RO
 Buenos Aires, Argentina 2017, RO
 Al Khafji SWRO, Khafji, Saudi Arabia 2016, 60,000 m³/d RO
 Wajeed, Saudi Arabia 2016, 60,000 m³/d RO
 South Korea 2016, 58,000 m³/d RO
 South Korea 2016, 58,000 m³/d RO
 Asan, South Chungcheong, South Korea 2016, 28,000 m³/d RO
 Ain Salah, Algeria 2016, 26,500 m³/d RO
 Foshan, Guangdong province, China 2016, 25,872 m³/d RO
 King Khaled International Airport, Riyadh, Saudi Arabia 2016, 25,000 m³/d RO
 Ningbo, China 2016, 24,969 m³/d RO
 Dongming, China 2016, 23,011 m³/d RO
 Jinghai Village Drinking Water, Tianjin, China 2016, 16,704 m³/d RO
 Vietnam 2016, 15,000 m³/d RO
 Yancheng, China 2016, 14,918 m³/d RO
 China 2016, 14,136 m³/d RO
 Plock, Poland 2016, 13,500 m³/d RO
 Plock, Poland 2016, 13,500 m³/d RO
 Panzhuhua, China 2016, 13,219 m³/d RO
 China 2016, 12,028 m³/d RO
 China 2016, 11,913 m³/d RO
 Lu'an, China 2016, 11,810 m³/d RO
 Handan, China 2016, 10,886 m³/d RO
 Nanjing, China 2016, 10,886 m³/d RO
 Datang Lin Qing, China 2016, 10,752 m³/d RO
 Xin Yuan Guo Neng Alashan, China 2016, 10,368 m³/d RO
 Singapore 2016, 9,600 m³/d RO
 Aspire, Qatar 2016, 9,500 m³/d RO
 China 2016, 9,180 m³/d RO
 Yili, China 2016, 8,812 m³/d RO
 Pan Steel, China 2016, 8,352 m³/d RO
 RO reuse, China 2016, 8,248 m³/d RO
 Shang Ban Cheng project, China 2016, 8,064 m³/d RO
 China 2016, 7,588 m³/d RO
 South Korea 2016, 7,500 m³/d RO
 China 2016, 7,257 m³/d RO
 Hua Run project, China 2016, 6,912 m³/d RO
 China 2016, 6,854 m³/d RO
 Rong Xing Chemical, China 2016, 6,384 m³/d RO
 South Korea 2016, 6,000 m³/d RO
 Shaoxing, China 2016, 5,875 m³/d RO
 Long Da, Nantong, China 2016, 5,760 m³/d RO
 Tai Da Xin Shui Yuan, Tianjin, China 2016, 5,712 m³/d RO
 China 2016, 5,630 m³/d RO
 Dongguan, China 2016, 5,406 m³/d RO
 Thailand 2016, 4,291 m³/d RO

China 2016, 4,284 m³/d RO
Boise City, United States 2016, 4,900 m³/d RO
Chongqing, China 2016, 4,500 m³/d RO
Qingdao, China 2016, 4,406 m³/d RO
China 2016, 4,401 m³/d RO
China 2016, 4,182 m³/d RO
Industrial, China 2016, 4,080 m³/d RO
China 2016, 4,032 m³/d RO
Russia 2016, 4,000 m³/d RO
2017, 10,000 m³/d RO
Batan, Vietnam 2016, 4,000 m³/d RO
China 2016, 3,916 m³/d RO
Xiaoshan, China 2016, 3,672 m³/d RO
China 2016, 3,628 m³/d RO
Zeitz, Germany 2016, 3,600 m³/d RO
China 2016, 3,549 m³/d RO
China 2016, 3,360 m³/d RO
China 2016, 3,060 m³/d RO
China 2016, 3,023 m³/d RO
Germany 2016, 3,000 m³/d RO
Romania 2016, 2,880 m³/d RO
China 2016, 2,822 m³/d RO
Akita, Japan 2016, 2,800 m³/d RO
Thailand 2016, 2,620 m³/d RO
China 2016, 2,570 m³/d RO
Shenzhen, China 2016, 2,550 m³/d RO
Shanghai, China 2016, 2,509 m³/d RO
Gunsan, South Korea 2016, 2,500 m³/d RO
Lichtenfels, Germany 2016, 2,500 m³/d RO
Basel, Switzerland 2016, 2,500 m³/d RO
Qingyang, China 2016, 2,448 m³/d RO
China 2016, 2,436 m³/d RO
Tianjin, China 2016, 2,419 m³/d RO
Belarus 2016, 2,400 m³/d RO
China 2016, 2,385 m³/d RO
Junnan, China 2016, 2,203 m³/d RO
China 2016, 2,203 m³/d RO
Donguan, China 2016, 2,162 m³/d RO
Datteln, Germany 2016, 2,112 m³/d RO
Yiwu, China 2016, 2,016 m³/d RO
South Korea 2016, 2,000 m³/d RO
Kumamoto, Japan 2016, 2,000 m³/d RO
Kouchi, Japan 2016, 2,000 m³/d RO
South Korea 2016, 2,000 m³/d RO
Murcia, Cartagena, Spain 2016, 2,000 m³/d RO
Luoyang, China 2016, 1,958 m³/d RO
China 2016, 1,958 m³/d RO
Lithuania 2016, 1,920 m³/d RO
Ehime, Japan 2016, 1,800 m³/d RO
North Mexico, Mexico 2016, 1,680 m³/d RO
China 2016, 1,612 m³/d RO
Ningxia, China 2016, 1,611 m³/d RO
Xinjiang Yi Hua, China 2016, 1,600 m³/d RO
Xinjiang Tian Ye water resue project , Xinjiang Province, China 2016, 1,536 m³/d RO
Munich, Germany 2016, 1,500 m³/d RO
Ukraine 2016, 1,500 m³/d RO

Munich, Germany 2016, 1,500 m³/d RO
RO reuse, Ukraine 2016, 1,500 m³/d RO
Ochsenfurt, Germany 2016, 1,440 m³/d RO
Kenya 2016, 1,416 m³/d RO
China 2016, 1,243 m³/d RO
Russia 2016, 1,200 m³/d RO
Morocco 2016, 1,200 m³/d RO
Huludao, China 2016, 1,081 m³/d RO
China 2016, 1,020 m³/d RO
Industrial, China 2016, 1,008 m³/d RO
Kyoto, Japan 2016, 1,000 m³/d RO
Anyang, South Korea 2016, 1,000 m³/d RO
Romania 2016, 960 m³/d RO
Ukraine 2016, 900 m³/d RO
Sumatra, Indonesia 2016, 860 m³/d RO
Donguan, China 2016, 856 m³/d RO
China 2016, 816 m³/d RO
Industrial, Romania 2016, 720 m³/d RO
Tochigi, Japan 2016, 600 m³/d RO
Romania 2016, 528 m³/d RO
Tokyo, Japan 2016, 480 m³/d RO
Shiga, Japan 2016, 480 m³/d RO
Tokyo, Japan 2016, 480 m³/d RO
Hyogo, Japan 2016, 480 m³/d RO
Ibaragi, Japan 2016, 430 m³/d RO
Osaka, Japan 2016, 420 m³/d RO
Osaka, Japan 2016, 400 m³/d RO
Honshu, Saitama, Japan 2016, 400 m³/d RO
Miyagi, Japan 2016, 300 m³/d RO
RO reuse, China 2016, 183 m³/d RO
Tonga 2016, 120 m³/d RO
Germany 2016, RO
Odessa, Ukraine 2016, RO
Al Ghubra, Oman 2015, 201,600 m³/d RO
Fujairah, United Arab Emirates 2015, 145,472 m³/d RO
Cheongju, South Korea 2015, 30,000 m³/d RO
Suwon, South Korea 2015, 30,000 m³/d RO
Suzhou, China 2015, 24,000 m³/d RO
Wei Qiao Indonesia project, Indonesia 2015, 23,040 m³/d RO
Wuhan, China 2015, 20,000 m³/d RO
Vietnam 2015, 20,000 m³/d RO
China Coal, China 2015, 18,272 m³/d RO
Vietnam 2015, 17,000 m³/d RO
Kunshan, China 2015, 16,000 m³/d RO
Newman, Australia 2015, 16,000 m³/d RO
BHP Newman, Newman, Australia 2015, 16,000 m³/d RO
Yongin, South Korea 2015, 15,000 m³/d RO
Tenerife - Oueste, Spain 2015, 14,000 m³/d RO
Tenerife Oeste, Arona, Spain 2015, 14,000 m³/d RO
Jersey, United Kingdom 2015, 13,200 m³/d RO
Printing and Dyeing Mill , Malaysia 2015, 12,960 m³/d RO
Zhong Tian He Chuang, China 2015, 12,432 m³/d RO
Mo Long, China 2015, 12,000 m³/d RO
Yan Mining , Erdos, China 2015, 11,712 m³/d RO
Fuxin Waste water resue project, China 2015, 10,368 m³/d RO
2017, 700 m³/d RO
Chansha Nanfang Yu Hang ,Chansha,China 2015, 15,040 m³/d RO

Yanshan Steel , Yanshan, China 2015, 11,376 m³/d RO
 Tianfu East power plant, Xinjiang, China 2015, 10,304 m³/d RO
 Foxconn, Shenzhen, China 2015, 10,224 m³/d RO
 Guangzhou, China 2015, 10,000 m³/d RO
 Yang Quan Coal Industry, China 2015, 9,792 m³/d RO
 Li Xin power plant, China 2015, 9,504 m³/d RO
 Bao Steel , Baotou, China 2015, 8,640 m³/d RO
 Gumi, South Korea 2015, 8,000 m³/d RO
 Russia 2015, 7,000 m³/d RO
 Paju, South Korea 2015, 6,400 m³/d RO
 China Coal Erdos replacement, Erdos, China 2015, 6,352 m³/d RO
 Xiamen, China 2015, 6,000 m³/d RO
 Bao Steel , Baotou, China 2015, 5,616 m³/d RO
 Seat, Spain 2015, 5,500 m³/d RO
 Krasnodar Power Plant, Krasnodar, Russia 2015, 5,060 m³/d RO
 Chongqing, China 2015, 5,000 m³/d RO
 Russia 2015, 5,000 m³/d RO
 Buzau, Romania 2015, 4,000 m³/d RO
 Nicaragua 2015, 3,500 m³/d RO
 Russia 2015, 3,000 m³/d RO
 Suez Fertilizers Co., Suez, Egypt 2015, 3,000 m³/d RO
 Renningen-Mönchshöh, Germany 2015, 2,500 m³/d RO
 WW Lüssow, Lüssow, Germany 2015, 2,500 m³/d RO
 WW Renningen, Renningen, Baden Württemberg, Germany 2015, 2,400 m³/d RO
 Russia 2015, 2,300 m³/d RO
 Russia 2015, 2,200 m³/d RO
 Richter Gedeon, Budapest, Hungary 2015, 2,160 m³/d RO
 Miyagi, Japan 2015, 2,000 m³/d RO
 Xi'an, Xian, Shaanxi province, China 2015, 2,000 m³/d RO
 Chongqing, China 2015, 2,000 m³/d RO
 Kouchi, Japan 2015, 2,000 m³/d RO
 Coca Cola, Spain 2015, 1,800 m³/d RO
 Playas de Jandia, Spain 2015, 1,700 m³/d RO
 Kazakhstan 2015, 1,700 m³/d RO
 WW Venningen, Venningen, Rheinland Pfalz, Germany 2015, 1,680 m³/d RO
 WWBT, Marsa Alam, Egypt 2015, 1,500 m³/d RO
 Marsellia Beach 4, North coast, Egypt 2015, 1,500 m³/d RO
 Austria 2015, 1,440 m³/d RO
 Villach, Germany 2015, 1,440 m³/d RO
 Ingolstadt, Bavaria, Germany 2015, 1,440 m³/d RO
 Kocaeli, Turkey 2015, 1,440 m³/d RO
 Netherlands 2015, 1,248 m³/d RO
 Grawla, North coast, Egypt 2015, 1,000 m³/d RO
 Blue Bay, Ein El Sokhna, Egypt 2015, 750 m³/d RO
 El Narges, North coast, Egypt 2015, 500 m³/d RO
 Marsellia Beach, North coast, Egypt 2015, 500 m³/d RO
 Nice 3, North coast, Egypt 2015, 500 m³/d RO
 Nice 4, North coast, Egypt 2015, 500 m³/d RO
 Jiangsu, China 2015, 478 m³/d RO
 Shanghai, China 2015, 329 m³/d RO
 Guizhou, China 2015, 328 m³/d RO
 Beijing, China 2015, 318 m³/d RO
 Shandong, China 2015, 199 m³/d RO
 Shandong , China 2015, 188 m³/d RO
 Zhejiang, China 2015, 152 m³/d RO
 Jiangsu, China 2015, 117 m³/d RO

Chongqing, China 2015, 116 m³/d RO
 Nanjing, China 2014, 45,000 m³/d RO
 South Korea 2014, 38,000 m³/d RO
 RO plant, Touggout, Algeria 2014, 34,560 m³/d RO
 Dahej, India 2014, 25,000 m³/d RO
 Zhong Sha CoalChemical, Tianjin, China 2014, 20,736 m³/d RO
 Xi'an, China 2014, 17,000 m³/d RO
 Inner Mongolia, China 2014, 16,000 m³/d RO
 Gaiziantep, Turkey 2014, 14,163 m³/d RO
 Granadilla, Granadilla de Abona, Spain 2014, 14,000 m³/d RO
 Basra, Iraq 2014, 13,500 m³/d RO
 Dammam, Eastern Province, Saudi Arabia 2014, 11,636 m³/d RO
 Rajpura, India 2014, 11,000 m³/d RO
 Jhajjar, India 2014, 11,000 m³/d RO
 Nellore, India 2014, 10,000 m³/d RO
 Cilacap, Indonesia 2014, 7,800 m³/d RO
 Sierra Gorda Enlargement, Sierra Gorda, Chile 2014, 7,400 m³/d RO
 Vietnam 2014, 7,200 m³/d RO
 City of Odessa, Texas, United States 2014, 5,678 m³/d RO
 Agragua, Gáldar, Spain 2014, 5,000 m³/d RO
 Marassi, North coast, Egypt 2014, 5,000 m³/d RO
 Nanjing, China 2014, 4,600 m³/d RO
 Kharji, Saudi Arabia 2014, 4,411 m³/d RO
 Nuclear Power Plant , Paks, Hungary 2014, 3,600 m³/d RO
 Anhui, China 2014, 3,200 m³/d RO
 Xinjiang, China 2014, 3,200 m³/d RO
 Nicaragua, Managua 2014, 2,800 m³/d RO
 Henan, China 2014, 2,500 m³/d RO
 Jiangsu, China 2014, 2,500 m³/d RO
 Ningxia, China 2014, 2,500 m³/d RO
 Jiangsu, China 2014, 2,470 m³/d RO
 Yamaguchi, Japan 2014, 2,400 m³/d RO
 Kyoto, Japan 2014, 2,400 m³/d RO
 RO plant, Indonesia 2014, 2,400 m³/d RO
 Zhejiang, China 2014, 2,000 m³/d RO
 Suzhou, China 2014, 2,000 m³/d RO
 Xi'an, China 2014, 2,000 m³/d RO
 Ciy of Bushnell, Illinois, United States 2014, 1,893 m³/d RO
 Baiji, Iraq 2014, 1,728 m³/d RO
 Jiangsu, China 2014, 1,647 m³/d RO
 Heilongjiang, China 2014, 1,600 m³/d RO
 Fuerteventura, Jandía, Spain 2014, 1,600 m³/d RO
 Shanghai, China 2014, 1,518 m³/d RO
 Jiangsu, China 2014, 1,464 m³/d RO
 Villach, Austria 2014, 1,440 m³/d RO
 Heibei, China 2014, 1,400 m³/d RO
 South Korea 2014, 1,300 m³/d RO
 Guangzhou, China 2014, 1,300 m³/d RO
 Kanagawa, Japan 2014, 1,300 m³/d RO
 WW Lüssow , Lüssow, Mecklenburg Vorpommern, Germany 2014, 1,300 m³/d RO
 Tokushima, Japan 2014, 1,300 m³/d RO
 WW Finnentrop, Finnentrop, NRW, Germany 2014, 1,150 m³/d RO
 Yamagata, Japan 2014, 1,000 m³/d RO
 Heibei, China 2014, 1,000 m³/d RO
 Kiriazzy, Obour, Egypt 2014, 1,000 m³/d RO
 Ningxia, China 2014, 941 m³/d RO

Miyagi, Japan 2014, 700 m³/d RO
 Ningxia, China 2014, 891 m³/d RO
 Kumamoto, Japan 2014, 800 m³/d RO
 Guangdong, Guangdong province, China 2014, 796 m³/d RO
 Jiangsu, China 2014, 796 m³/d RO
 Jiangsu, China 2014, 737 m³/d RO
 Shenzhen, China 2014, 720 m³/d RO
 Shanghai, China 2014, 707 m³/d RO
 Jiangsu, China 2014, 701 m³/d RO
 Shanghai, China 2014, 648 m³/d RO
 Shanghai, China 2014, 582 m³/d RO
 Jiangsu, China 2014, 537 m³/d RO
 Shanghai, China 2014, 517 m³/d RO
 Shanghai, China 2014, 511 m³/d RO
 Arla Foods Deutchland GmbH , Pronsfeld, Germany 2014, 500 m³/d Other / Unknown
 Indonesia 2014, 479 m³/d RO
 Shanghai, China 2014, 476 m³/d RO
 Shanghai, China 2014, 464 m³/d RO
 Jiangsu, China 2014, 454 m³/d RO
 Shanghai, China 2014, 432 m³/d RO
 Shanghai, China 2014, 431 m³/d RO
 Neimenggu, China 2014, 418 m³/d RO
 Shanghai , China 2014, 418 m³/d RO
 Henan, China 2014, 415 m³/d RO
 Miyagi, Japan 2014, 400 m³/d RO
 Shandong , China 2014, 398 m³/d RO
 Tianjin, China 2014, 358 m³/d RO
 Shanghai, China 2014, 348 m³/d RO
 Shanxi, China 2014, 348 m³/d RO
 Shanghai, China 2014, 325 m³/d RO
 Niigata, Japan 2014, 320 m³/d RO
 South Korea 2014, 320 m³/d RO
 Australia 2014, 315 m³/d RO
 Shanghai, China 2014, 315 m³/d RO
 Shandong, China 2014, 313 m³/d RO
 Osaka, Honshu, Japan 2014, 300 m³/d RO
 Zhejiang, China 2014, 285 m³/d RO
 Shandong, Shandong province, China 2014, 268 m³/d RO
 Shanghai, China 2014, 263 m³/d RO
 Shandong, China 2014, 244 m³/d RO
 Shanghai, China 2014, 232 m³/d RO
 Beijing, China 2014, 229 m³/d RO
 Shanghai, China 2014, 223 m³/d RO
 Shanghai, China 2014, 220 m³/d RO
 Shandong , China 2014, 219 m³/d RO
 Shanghai, China 2014, 219 m³/d RO
 Jiangsu, China 2014, 214 m³/d RO
 Beijing, China 2014, 209 m³/d RO
 Shanghai, China 2014, 205 m³/d RO
 Hebei, China 2014, 199 m³/d RO
 Shandong, China 2014, 194 m³/d RO
 Beijing, China 2014, 179 m³/d RO
 Shanghai , China 2014, 174 m³/d RO
 Tianjin, China 2014, 174 m³/d RO
 Shandong, China 2014, 164 m³/d RO
 Shandong, China 2014, 156 m³/d RO
 Anhui, China 2014, 151 m³/d RO

Zhejiang, China 2014, 149 m³/d RO
 Shanghai, China 2014, 149 m³/d RO
 Shanghai, China 2014, 139 m³/d RO
 Shandong, China 2014, 134 m³/d RO
 Shanghai, China 2014, 127 m³/d RO
 Shanghai, China 2014, 124 m³/d RO
 Shanghai, China 2014, 122 m³/d RO
 Shanghai, China 2014, 119 m³/d RO
 Yinchuan, China 2014, 116 m³/d RO
 Jiangsu, China 2014, 116 m³/d RO
 Shanghai, China 2014, 116 m³/d RO
 Jiangsu, Jiangsu province, China 2014, 109 m³/d RO
 Tianjin, China 2014, 104 m³/d RO
 Datang Waste water treatment plant, Foshan, China 2013, 468,816 m³/d RO
 Jubail-4, Saudi Arabia 2013, 100,000 m³/d RO
 Suzhou, China 2013, 70,000 m³/d RO
 South Korea 2013, 56,000 m³/d RO
 Saudi Arabia 2013, 53,000 m³/d RO
 India 2013, 40,000 m³/d RO
 Ningmei Alkene, Ningxia, China 2013, 39,000 m³/d RO
 Shaanxi, China 2013, 37,000 m³/d RO
 Yantai Laishan Waterworks, Shandong, China 2013, 37,000 m³/d RO
 Shandong, China 2013, 36,000 m³/d RO
 ChinaCoal Yulin Reuse Project, Yulin, Shaanxi province, China 2013, 32,000 m³/d RO
 ChinaCoal Yulin Desalted Water, Shaanxi, China 2013, 30,000 m³/d RO
 North Springs, Florida, United States 2013, 25,551 m³/d RO
 Ningmei Alkene, Ningxia, China 2013, 22,000 m³/d RO
 St. Lucie West, Florida, United States 2013, 20,441 m³/d RO
 South Korea 2013, 20,000 m³/d RO
 Ningxia, China 2013, 16,000 m³/d RO
 Liuheng Power Plant, Zhejiang, China 2013, 12,000 m³/d RO
 Cuddalore, India 2013, 10,600 m³/d RO
 Guangzhou, China 2013, 9,000 m³/d RO
 Paju, South Korea 2013, 7,500 m³/d RO
 Liaoning, China 2013, 7,400 m³/d RO
 Saudi Arabia 2013, 7,200 m³/d RO
 Barwon Black Rock, Australia 2013, 5,678 m³/d RO
 Village of Western Springs, Illinois, United States 2013, 5,678 m³/d RO
 Inner Mongolia, China 2013, 5,000 m³/d RO
 Chung Ching, China 2013, 4,500 m³/d RO
 Liaoning, China 2013, 3,000 m³/d RO
 Zhejiang Xiushan, Zhejiang, China 2013, 3,000 m³/d RO
 Hebei, China 2013, 2,700 m³/d RO
 Tianjin, China 2013, 2,200 m³/d RO
 Ichon, South Korea 2013, 2,000 m³/d RO
 Xi'an, China 2013, 2,000 m³/d RO
 Neimenggu, China 2013, 627 m³/d RO
 Hiroshima, Japan 2013, 540 m³/d RO
 Ibaragi, Japan 2013, 540 m³/d RO
 Yamagata, Japan 2013, 400 m³/d RO
 Kanagawa, Japan 2013, 400 m³/d RO
 Kagawa, Japan 2013, 400 m³/d RO
 Tochigi, Japan 2013, 320 m³/d RO
 Shandong, China 2013, 159 m³/d RO

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Shanghai, China 2013, 313 m³/d RO
Miyagi, Japan 2013, 300 m³/d RO
Shiga, Japan 2013, 300 m³/d RO
Shimane, Japan 2013, 300 m³/d RO
Neimenggu, China 2013, 298 m³/d RO
Tokushima, Japan 2013, 250 m³/d RO
Guangzhou, China 2013, 199 m³/d RO
Shanghai, China 2013, 194 m³/d RO
Shandong, China 2013, 180 m³/d RO
RO desalination, China 2013, 159 m³/d RO
Hangzhou, China 2013, 140 m³/d RO
RO desalination, China 2013, 133 m³/d RO
Neimenggu, China 2013, 119 m³/d RO
Al Gubra, Muscat, Oman 2013, 42.0 MIGD RO
Fujairah expansion 1, United Arab Emirates 2012, 137,496 m³/d RO
Riyadh, Saudi Arabia 2012, 78,720 m³/d RO
Ghalilah Desalination Plant, Ra's al Khaymah, United Arab Emirates 2012, 68,000 m³/d RO
Dalateqi Waterworks II, Inner Mongolia, China 2012, 50,000 m³/d NF
Al Zawrah, Ajman, United Arab Emirates 2012, 45,920 m³/d RO
RO desalination, Tunisia 2012, 35,000 m³/d RO
RO desalination, Saudi Arabia 2012, 33,000 m³/d RO
Riyadh, Saudi Arabia 2012, 29,960 m³/d RO
India 2012, 26,328 m³/d RO
Comperj, Rio de Janeiro, Brazil 2012, 24,080 m³/d RO
Tu Ke project, China 2012, 24,000 m³/d RO
RO desalination, Saudi Arabia 2012, 8,320 m³/d RO
RO desalination, Singapore 2012, 7,000 m³/d RO
RO desalination, Iraq 2012, 7,000 m³/d RO
RO desalination, India 2012, 7,000 m³/d RO
Barwon Northern, Australia 2012, 5,678 m³/d RO
Yamaguchi, Japan 2012, 5,100 m³/d RO
Otagua, Canary Islands, Spain 2012, 4,440 m³/d RO
Fukushima, Japan 2012, 4,320 m³/d RO
RO desalination, United Kingdom 2012, 3,600 m³/d RO
RO desalination, Tunisia 2012, 2,700 m³/d RO
Tokyo, Japan 2012, 1,800 m³/d RO
Xinjiang, China 2012, 1,235 m³/d RO
Tokushima, Japan 2012, 1,080 m³/d RO
Hiroshima, Japan 2012, 400 m³/d RO
Jilin, China 2012, 388 m³/d RO
Kumamoto, Japan 2012, 350 m³/d RO
RO desalination, China 2012, 300 m³/d RO
RO desalination, Japan 2012, 300 m³/d RO
Miyazaki, Japan 2012, 300 m³/d RO
Yamagata, Japan 2012, 300 m³/d RO
Tokyo, Japan 2012, 270 m³/d RO
Ibaragi, Japan 2012, 240 m³/d RO
Fukui, Japan 2012, 200 m³/d RO
Fukui, Japan 2012, 200 m³/d RO
70MGD DBOO Project, Tuaspring, Singapore 2011, 318,500 m³/d RO
Al Dur, Bahrain 2011, 222,336 m³/d RO
SSDP Expansion, Perth, WA, Australia 2011, 140,000 m³/d RO
Caofeidian SW, Hebei, China 2011, 50,000 m³/d RO
Dalateqi Waterworks I, Inner Mongolia, China 2011, 50,000 m³/d NF

City of Scottsdale, AZ, United States 2011, 18,927 m³/d RO
RO desalination, South Korea 2011, 10,000 m³/d RO
South Korea 2011, 5,000 m³/d RO
Paju, South Korea 2011, 1,130 m³/d RO
South Korea 2011, 600 m³/d RO
Magtaa, Oran, Algeria 2010, 500,000 m³/d RO
South Korea 2010, 45,000 m³/d RO
Paju, South Korea 2010, 36,000 m³/d RO
South Korea 2010, 15,000 m³/d RO
South Korea 2010, 10,000 m³/d RO
South Korea 2010, 8,000 m³/d RO
Onyang, South Korea 2010, 1,440 m³/d RO
Lu An Coal Chemical, China, 34,560 m³/d RO
Beitang Waste water treatment plant, Tianjin, China, 30,464 m³/d RO
Yitai Hang Jing Qi, China, 29,376 m³/d RO
Wan Hua Da Xie project, Ning Bo, China, 27,648 m³/d RO
Clearwater WTP2, Florida, United States, 19,873 m³/d RO
Hong Shan power plant, Hong Shan, China, 15,120 m³/d RO
Liao Yang Guo Cheng, Liao Yang, China, 12,960 m³/d RO
Bohui Replacement, China, 10,368 m³/d RO
Villach, Austria, 8,700 m³/d RO
Moscow, Russia, 4,800 m³/d RO
City of Dunes WTP, Florida, United States, 2,839 m³/d RO
Austria, 1,800 m³/d RO
ONWASA, Dixon, North Carolina, United States of America, 3.0 MIGD RO
U.S.A., United States, 12,000 m³/d
Pyeongteak, South Korea, 10,000 m³/d RO
Dangjin, South Korea, 3,600 m³/d RO
Taiwan, 3,000 m³/d
Taiwan, 2,000 m³/d
Kurosaki, Japan, 1,800 m³/d RO
Taiwan, 1,500 m³/d
N, United States 2017, 25,549 RO

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 Slough, United Kingdom 2020, 1,080 m³/d RO
 Raw water treatment plant, Dahej, Dahej, India, India 2020, 700 m³/d RO
 Ormond Beach, Florida, United States 2019, 15,200 m³/d RO
 Fabrika vode Zrenjanin, Zrenjanin, Serbia 2019, 10,800 m³/d RO
 Linden Cogen, Linden, New Jersey, United States 2019, 8,700 m³/d RO
 Karaipudur Common effluent Treatment Plant, Tirupur, Tirupur, India, India 2019, 2,688 m³/d RO
 Lovochemie, Lovosice, Czech Republic 2019, 2,160 m³/d RO
 Alpiq, Kladno, Czech Republic 2019, 1,920 m³/d RO
 Chirk, United Kingdom 2019, 1,920 m³/d RO
 Royapuram Common effluent Treatment Plant, Tirupur, Tirupur, India, India 2019, 1,848 m³/d RO
 GEPP (Pepsi), Yucatan, Mexico 2019, 1,200 m³/d RO
 ETP recycle, Dahej, Dahej, India, India 2019, 1,200 m³/d RO
 SRK Natural Products, Chennai, Chennai, India, India 2019, 1,008 m³/d RO
 RK Aqua, Hyderabad, Hyderabad, India, India 2019, 912 m³/d RO
 Vishnu Processing, Erode, Erode, India, India 2019, 840 m³/d RO
 Suman Aqua, Hyderabad, Hyderabad, India, India 2019, 840 m³/d RO
 IMLEK, Belgrade, Serbia 2019, 720 m³/d RO
 Multipure Technologies, Bangalore, Bangalore, India, India 2019, 552 m³/d RO
 ETP treated water, Bhuj, Bhuj, India, India 2019, 550 m³/d RO
 Raw water treatment plant, Nadiad, Nadiad, India, India 2019, 500 m³/d RO
 ETP treated water, Goa, Goa, India, India 2019, 480 m³/d RO
 Oberösterreich, Austria 2019, 342 m³/d RO
 Oberösterreich, Oberösterreich, AT, Austria 2019, 340 m³/d RO
 Aroma AD, Devnya, Bulgaria 2019, 240 m³/d RO
 Proflink Ltd, Plovdiv, Bulgaria 2019, 240 m³/d RO
 Niederösterreich, Niederösterreich, AT, Austria 2019, 200 m³/d RO
 Colombia, Barranca 2018, 20,000 m³/d RO
 Najran, Saudi Arabia 2018, 8,000 m³/d RO
 Colombia, Villavicencio 2018, 4,000 m³/d RO
 Riyadh, Saudi Arabia 2018, 4,000 m³/d RO
 Milazzo, Italy 2018, 3,840 m³/d RO
 London, West Thurrock, United Kingdom 2018, 3,600 m³/d RO
 E Kentucky Power, Maysville, Kentucky, United States 2018, 3,400 m³/d RO
 Tapo Canyon, Simi Valley, California, United States 2018, 2,500 m³/d RO
 San Salvador, El Salvador 2018, 2,448 m³/d RO
 Roermond, Netherlands 2018, 2,400 m³/d RO
 Torino, Italy 2018, 2,400 m³/d RO
 Texas, United States 2018, 2,180 m³/d RO
 Perundurai, India 2018, 2,160 m³/d RO
 Kansas, United States 2018, 2,040 m³/d RO
 Al-Madinah, Saudi Arabia 2018, 2,000 m³/d RO
 Dammam, Saudi Arabia 2018, 2,000 m³/d RO
 CFE, Tampico, Mexico 2018, 1,920 m³/d RO
 Tocancipa, Colombia 2018, 1,920 m³/d RO
 Jhagadia, India 2018, 1,800 m³/d RO
 Lima, Peru 2018, 1,560 m³/d RO
 Covanta, Niagra Falls, New York, United States 2018, 1,360 m³/d RO
 Rabigh, Saudi Arabia 2018, 1,000 m³/d RO
 Schkopau, Denmark 2018, 940 m³/d RO
 Stanford-le-Hope, United Kingdom 2018, 888 m³/d RO
 Virginia, United States 2018, 830 m³/d RO
 North Carolina, United States 2018, 555 m³/d RO
 Raw water treatment plant, Siddhpur, India 2018, 500 m³/d RO
 California, United States 2018, 432 m³/d RO
 Dammam, Saudi Arabia 2018, 400 m³/d RO
 Chennai, India 2018, 240 m³/d RO
 Krasnystaw, Poland 2018, 240 m³/d RO
 Tampico, Mexico 2017, 21,600 m³/d RO
 Guangdong, China 2017, 12,000 m³/d RO
 Tuapse, Russia 2017, 9,240 m³/d RO
 Mangalore, India 2017, 7,512 m³/d RO
 Ghent, Belgium 2017, 6,000 m³/d RO
 Henan, China 2017, 4,800 m³/d RO
 Liaoning, China 2017, 4,800 m³/d RO
 West Thurrock, United Kingdom 2017, 3,980 m³/d RO
 Granbury, Texas, United States 2017, 3,785 m³/d RO
 Hubei, China 2017, 3,600 m³/d RO
 Anhui, China 2017, 3,600 m³/d RO
 Shanxi, China 2017, 3,600 m³/d RO
 Liaoning, China 2017, 3,600 m³/d RO
 Neimenggu, China 2017, 3,600 m³/d RO
 Shandong, China 2017, 3,600 m³/d RO
 Telangana, India 2017, 3,445 m³/d RO
 Keansburg, New Jersey, United States 2017, 3,380 m³/d RO
 Oland, Sweden 2017, 3,000 m³/d RO
 Ford City, Pennsylvania, United States 2017, 2,950 m³/d RO
 Arizona, United States 2017, 2,725 m³/d RO
 Tirupur, India 2017, 2,700 m³/d RO
 Mendeleevsk, Russia 2017, 2,640 m³/d RO
 Randfontein, South Africa 2017, 2,640 m³/d RO
 Beijing, China 2017, 2,400 m³/d RO
 Hebei, China 2017, 2,400 m³/d RO
 Jiangxi, China 2017, 2,400 m³/d RO
 Guangdong, China 2017, 2,400 m³/d RO
 Shanxi, China 2017, 2,400 m³/d RO
 Jiangsu, China 2017, 2,400 m³/d RO
 Roermond, Netherlands 2017, 2,400 m³/d RO
 Tirupur, India 2017, 2,040 m³/d RO
 Beni Suef, Egypt 2017, 1,680 m³/d RO
 Scarlino, Italy 2017, 1,680 m³/d RO
 Sydney, Australia 2017, 1,360 m³/d RO
 Tirupur, India 2017, 1,320 m³/d RO
 Devnya, Bulgaria 2017, 1,260 m³/d RO
 Henan, China 2017, 1,200 m³/d RO
 Jiangxi, China 2017, 1,200 m³/d RO
 Parma, Italy 2017, 1,200 m³/d RO
 Pordenone, Italy 2017, 1,200 m³/d RO
 Medan, Indonesia 2017, 912 m³/d RO
 Sw. Katarzyna, Poland 2017, 840 m³/d RO

Kagoshima, Japan 2017, 720 m³/d RO
 Porbandar, India 2017, 720 m³/d RO
 West Java, Indonesia 2017, 600 m³/d RO
 Surabaya, Indonesia 2017, 600 m³/d RO
 Bukowno, Poland 2017, 600 m³/d RO
 Suzzara, Italy 2017, 552 m³/d RO
 Katowice, Poland 2017, 528 m³/d RO
 Aceh, Indonesia 2017, 480 m³/d RO
 Valencia, Spain 2017, 450 m³/d RO
 Algemesi, Spain 2017, 360 m³/d RO
 Bor, Serbia 2017, 360 m³/d RO
 Czarnkow, Poland 2017, 288 m³/d RO
 Bursa, Turkey 2016, 14,400 m³/d RO
 New Jersey, United States 2016, 4,800 m³/d RO
 Guangdong, China 2016, 4,800 m³/d RO
 Frankfurt/Main, Germany 2016, 3,600 m³/d RO
 Leuna, Germany 2016, 3,240 m³/d RO
 Barranquilla, Colombia 2016, 2,592 m³/d RO
 Xalostoc, Mexico 2016, 2,180 m³/d RO
 Gedebey, Azerbaijan 2016, 2,160 m³/d RO
 Jakarta, Indonesia 2016, 1,560 m³/d RO
 São Paulo, Brazil 2016, 1,440 m³/d RO
 Tirupur, India 2016, 1,320 m³/d RO
 Ixtlahuacin, Mexico 2016, 1,090 m³/d RO
 Windhoek, Namibia 2016, 1,044 m³/d RO
 Veracruz, Mexico 2016, 1,000 m³/d RO
 Gorontalo, Indonesia 2016, 936 m³/d RO
 Arizona, United States 2016, 908 m³/d RO
 Surabaya, Indonesia 2016, 840 m³/d RO
 Cartagena, Colombia 2016, 816 m³/d RO
 Chennai, India 2016, 800 m³/d RO
 Czarnków, Poland 2016, 768 m³/d RO
 Texas, United States 2016, 636 m³/d RO
 Liaoning, China 2015, 14,400 m³/d RO
 Tampico, Mexico 2015, 13,824 m³/d RO
 Triunfo, Brazil 2015, 10,800 m³/d RO
 Shchekino, Russia 2015, 7,800 m³/d RO
 Foshan, China 2015, 7,680 m³/d RO
 Alexandria, Egypt 2015, 5,760 m³/d RO
 Gumi, Yeongnam, South Korea 2015, 5,300 m³/d RO
 Manzhouli, China 2015, 4,800 m³/d RO
 Perth, WA, Australia 2015, 4,000 m³/d RO
 Bratislava, Slovakia 2015, 3,000 m³/d RO
 South East, United States 2015, 2,180 m³/d RO
 Ploiesti, Romania 2015, 2,040 m³/d RO
 Wiesbaden, Germany 2015, 1,440 m³/d RO
 Lippendorf, Germany 2015, 1,200 m³/d RO
 Głogów, Poland 2015, 1,200 m³/d RO
 Alexandria, Egypt 2015, 750 m³/d RO
 Haiphong, Vietnam 2015, 720 m³/d RO
 Trujillo, Peru 2015, 720 m³/d RO
 Hurghada, Egypt 2015, 600 m³/d RO
 Bursa, Turkey 2015, 600 m³/d RO
 Hurghada, Egypt 2015, 500 m³/d RO
 Sharm El Sheikh, Egypt 2015, 500 m³/d RO
 Czarna Woda, Poland 2015, 480 m³/d RO
 Tirupur, India 2015, 480 m³/d RO
 Surat, India 2015, 240 m³/d RO
 Bratislava, Slovakia 2014, 16,200 m³/d RO
 Huhehaote, China 2014, 8,640 m³/d RO
 Ningxia, China 2014, 8,400 m³/d RO
 Pan evo, Serbia 2014, 7,200 m³/d RO
 Sydney, NSW, Australia 2014, 6,000 m³/d RO
 Ansan, South Korea 2014, 4,750 m³/d RO
 Pingxiang, China 2014, 4,320 m³/d RO
 Wuhai, China 2014, 4,032 m³/d RO
 Australia 2014, 3,600 m³/d RO
 Pyeongtaek, South Korea 2014, 3,400 m³/d RO
 Taiyuan, China 2014, 2,400 m³/d RO
 Lingfeng, China 2014, 2,400 m³/d RO
 Changzhou, China 2014, 2,400 m³/d RO
 Shenzhen, China 2014, 2,400 m³/d RO
 Hangzhou, Zhejiang province, China 2014, 2,400 m³/d RO
 Qingdao, China 2014, 1,920 m³/d RO
 Tampico, Mexico 2014, 1,728 m³/d RO
 Texas, United States 2014, 1,500 m³/d RO
 Wuhan, China 2014, 1,440 m³/d RO
 Shanghai, China 2014, 1,200 m³/d RO
 Nava, Mexico 2014, 1,008 m³/d RO
 Shenzhen, China 2014, 1,000 m³/d RO
 Ain Sokhna, Egypt 2014, 960 m³/d RO
 Nanjing, China 2014, 960 m³/d RO
 Maryland, United States 2014, 950 m³/d RO
 Jacksonville, United States 2014, 681 m³/d RO
 Chennai, India 2014, 600 m³/d RO
 Japan 2014, 288 m³/d RO
 Australia 2013, 7,920 m³/d RO
 Chemnitz, Germany 2013, 2,880 m³/d RO
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 Beijing, China 2013, 2,400 m³/d RO
 Florida, United States 2013, 2,270 m³/d RO
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 Cabo de Santo Agostinho, Brazil 2013, 1,680 m³/d RO
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 Shanghai, China 2013, 1,296 m³/d RO
 Lima, Peru 2013, 1,080 m³/d RO
 Nagda, Madhya Pradesh, India 2013, 760 m³/d RO
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 Leborg, Poland 2013, 480 m³/d RO
 Shanghai, China 2013, 480 m³/d RO
 Jiangxi, China 2013, 432 m³/d RO
 Texas, United States 2013, 380 m³/d RO
 Shanghai, China 2013, 360 m³/d RO
 Newman, Newcastle, South Africa 2013, 312 m³/d RO
 Hangzhou, China 2013, 288 m³/d RO
 Yixing, Jiangsu province, China 2013, 288 m³/d RO
 Alabama, United States 2013, 270 m³/d RO
 Jedlicze, Poland 2013, 240 m³/d RO
 Australia 2013, 240 m³/d RO
 Suzhou, China 2013, 240 m³/d RO
 Shanghai, China 2013, 240 m³/d RO
 Jiangxi, China 2013, 192 m³/d RO
 Lanzhou, China 2013, 192 m³/d RO
 Yixing, Jiangsu province, China 2013, 192 m³/d RO
 Shanghai, China 2013, 144 m³/d RO

Suzhou, China 2013, 120 m³/d RO
 Shanghai, China 2013, 96 m³/d RO
 Rotterdam, Netherlands, 12,000 m³/d RO
 Rotterdam, Terneuzen & Antwerp, Netherlands, 8,000 m³/d RO
 Binh Thuan, Vietnam, 4,800 m³/d RO
 Ghent, Belgium, 4,000 m³/d RO
 Negeri Sembilan, Malaysia, 3,600 m³/d RO
 Thailand, 3,600 m³/d RO
 Kerteh, Malaysia, 3,400 m³/d RO
 Victoria, Melbourne, Australia, 2,950 m³/d RO
 Singapore, 2,880 m³/d RO
 Perth, Western Australia, Australia, 2,500 m³/d RO
 Selangor, Malaysia, 2,400 m³/d RO
 Various, Belgium, 2,400 m³/d RO
 Karachi, Pakistan, 1,514 m³/d RO
 Southwest Region of the Netherlands, Netherlands, 1,200 m³/d RO
 Thailand, 1,152 m³/d RO
 Western Australia, Perth, Australia, 1,100 m³/d RO
 Sumatera BWRO 1, Sumatera, Indonesia, 960 m³/d RO
 Sumatera BWRO 2, Sumatera, Indonesia, 960 m³/d RO
 Sumatera BWRO 3, Sumatera, Indonesia, 960 m³/d RO
 Sumatera BWRO 4, Sumatera, Indonesia, 960 m³/d RO
 HBIS Group Serbia, Smederevo, Serbia, 960 m³/d RO
 E.O.N., Malzenice, Slovakia, 960 m³/d RO
 Binh Duong, Vietnam, 720 m³/d RO
 Karachi, Pakistan, 672 m³/d RO
 New South Wales, Sydney, Australia, 600 m³/d RO
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Vontron Technology Co., Ltd. is a listed company of CRRC Group (stock referred to as "Vontron", code 000920). The company is registered in Southwest China's Guiyang High-tech Industrial Zone, a large-scale enterprise of the central government in Guizhou, and the company's largest shareholder is CRRC Industrial Investment Co., Ltd..

The company is a publicly traded company that specializes in the research and development, manufacturing, and sale of separation membranes and related materials, supplemented by comprehensive utilization of plant fibers and membrane separation industry.

Vontron's core business is membranes, with over 20 years of experience in the manufacture of spiral-wound membrane elements. Vontron specializes in R&D and manufacturing of reverse osmosis (RO), nanofiltration (NF), and ultrafiltration (UF) membrane elements as a national standard-setting unit of reverse osmosis membranes and a national high-tech enterprise. The company owns the core technologies in membrane manufacturing and system design, aiming to providing quality services to its clients. Vontron's products are widely sold in over 130 countries and regions.

Vontron has developed over 20 series and over 200 specifications of membrane products, including desalination membranes, fouling resistant membranes, oxidation resistant membranes, nanofiltration membranes, special separation membranes and residential membranes, which are applicable to bottled water, municipal drinking water, industrial pure water, electric high-purity water, seawater desalination, brackish water desalination, wastewater reuse, separation of high-salinity water and near-zero emission, food and beverage production, pharmaceutical manufacturing, material separation and purification as well as other applications. Vontron is currently China's largest manufacturer and service provider of dry-type reverse osmosis membrane elements.

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Legend

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South Africa 2019, 10,685 m³/d UF
 United States 2019, 250 m³/d RO
 South Africa 2018, 1,210 m³/d UF
 Australia 2017, 3,456 m³/d RO

Equipment Supplier: Ceramic Membranes and Engineering Services

India 2013, 3,715 m³/d UF

Equipment Supplier: Membrane Containers

France 2017, 50 m³/d RO

DeNora Water Technologies



www.denora.com

SELECTED REFERENCES

Equipment Supplier: Disinfection System

Mobile disinfection units, Texas, United States 2018, 235,000 barrels/day

Dimasa Group



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www.dimasagrupo.com

SELECTED REFERENCES

Equipment Supplier: Cartridge Filters

Planta Desaladora de Escombreras, Murcia, Spain 2015, 835.0 m³/h Tertiary treatment

Equipment Supplier: Sand Filters

Planta Desaladora de Ensenada, Baja California, Ensenada, Mexico 2015, 545.0 m³/h Tertiary treatment

Doosan Enpure Ltd.



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SELECTED REFERENCES

Equipment Supplier: Pretreatment

Shuaibah 3 IWP, Shuaibah, Saudi Arabia 2022, 600,000 m³/d RO
Yanbu 4 IWP, Ar Rayyis, Medina, Madinah Province, Saudi Arabia 2021, 450,000 m³/d RO

Pretreatment Contractor

TUAS 3 Desalination Plant, Singapore 2016, 136,000 m³/d RO
Shuqaiq Power Plant Project, Shuqaiq, Saudi Arabia 2014, 19,776 m³/d RO
Escondida Water Supply Project, Antofagasta, Chile 2013, 510,278 m³/d RO

Monwabisi Cape Town, South Africa 2018, 7,500 m³/d RO
Strandfontein Cape Town, South Africa 2018, 7,500 m³/d RO
Cape Town Plant, Cape Town, South Africa 2018, 7,200 m³/d RO
KTI Plant, Taiwan 2018, 4,800 m³/d RO
Amandi - Power Projects Plant, Takoradi, Ghana 2018, 2,592 m³/d RO
Ulphin Food Plant, Taiwan 2018, 480 m³/d RO
Matsu Desalination Plant, Matsu, Taiwan 2018, 480 m³/d RO
Container Desalination Plant, Taiwan 2018, 312 m³/d RO
Kinmen Desalination Plant, Taiwan 2017, 12,000 m³/d RO
PengHu Desalination Plant, Taiwan 2017, 12,000 m³/d RO
Creta Farm UF Plant WW17000 & BW4.000, Crete, Greece 2017, 9,600 m³/d RO
Trikala Landfill Leachate WW6.001, Trikala, Greece 2017, 4,800 m³/d RO
WCSA Desalination Plant, Cape Town, South Africa 2017, 3,600 m³/d RO
Riccard Pernod Plant, Dublin, Ballymount, Ireland 2017, 2,400 m³/d RO
Slane Castle Distillery Plant, Meath, Slane Castle, Ireland 2017, 2,400 m³/d RO
Jameson Whiskey/Riccard Pernod, Ballymount, Ireland 2017, 2,400 m³/d RO
Slane Castle Distillery, Meath, Ireland 2017, 2,400 m³/d RO
G.P. Constructions Plant - BW2.000, Euboea, Greece 2017, 1,200 m³/d RO
Proxa Desalination Plant, South Africa 2017, 1,200 m³/d RO
Almopia Landfill Leachate LW1.300, Almopia, Greece 2017, 1,080 m³/d RO
Shiny Chemical Industrial Plant, Taiwan 2017, 480 m³/d RO
Motor Oil Hellas Corinth Refineries Desalination Plant, Corinth, Greece 2017, 72 m³/d RO
Kellogs Mumbai Plant, Mumbai, India 2017, RO
Coalgate PalmOlive Goa Plant, Goa, India 2017, RO
Guinness/DIAGO Plant, Dublin, Ireland 2016, 7,200 m³/d RO
LGChem YS Plant, South Korea 2016, 3,240 m³/d RO
LGChem NJ Plant, South Korea 2016, 1,920 m³/d RO
Budweiser Plant, China 2016, RO
Rayomond Denim Textile Plant, India 2016, RO
Trikala Landfill Leachate WW6.000, Trikala, Greece 2015, 4,800 m³/d RO
Paraga Beach AE-Scorpios SW5.000, Mykonos, Greece 2015, 2,880 m³/d RO
Port Manama Plant, Manama, Bahrain 2015, 1,200 m³/d RO
Posco GW Plant, South Korea 2015, 240 m³/d FO
Square Pharmaceuticals Plant, Bangladesh 2014, 1,440 m³/d RO

Dryden Aqua



www.drydenaqua.com

SELECTED REFERENCES

Equipment Supplier: Pretreatment

Cebu MDE - Municipal Drinking Water, Philippines 2023, 27,500 m³/d RO
Cebu SRP - Municipal Drinking Water, Philippines 2023, 14,000 m³/d RO
Motor Oil Hellas Refineries, Greece 2020, 12,000 m³/d RO
POSCO Reuse Plant, South Korea 2019, 72,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: UF Membranes for RO Pretreatment (Inge, now under DuPont™ IntegraTec™ brand)

Facility D, Qatar 2020, 674,400 m³/d Other / Unknown

- ONEE, Ministry of Agriculture, Agadir, Morocco 2020, 646,704 m³/d UF
- Sharqiyah, Oman 2019, 170,544 m³/d Other / Unknown
- Zhenhai, China 2019, 100,800 m³/d Other / Unknown
- Atacama, Chile 2019, 83,376 m³/d Other / Unknown
- Sharqiyah, Oman 2019, 80,000 m³/d
- Emaar, the Economic City, King Abdullah Economic City, Saudi Arabia 2019, 74,880 m³/d UF
- King Abdullah Economic City, Saudi Arabia 2019, 30,000 m³/d
- North Chennai, India 2019, 15,360 m³/d
- Shrimp Farms, Thailand 2019, 8,640 m³/d
- Izmir, Turkey 2019, 8,563 m³/d
- Jinggangshan, Jian, Jiangxi province, China 2019, 7,872 m³/d
- Fujian, China 2019, 7,680 m³/d
- Kocaeli, Turkey 2019, 7,200 m³/d
- Abu Dhabi, United Arab Emirates 2019, 6,758 m³/d
- Abu Dhabi, United Arab Emirates 2019, 4,608 m³/d
- Abu Dhabi, United Arab Emirates 2019, 4,032 m³/d
- India 2019, 1,209 m³/d
- Wuxi Xincheng Water Plant 2 Wastewater Reuse Project, Wuxi, Jiangsu province, China 2018, 170,000 m³/d UF
- Jazan, Saudi Arabia 2018, 105,000 m³/d RO
- Jeddah, Saudi Arabia 2018, 17,000 m³/d RO
- Leuze En Hainaut, Hainaut, Wallonia, Belgium 2018, 2,640 m³/d
- Prinzhöfte, Oldenburg, Lower Saxony, Germany 2018, 240 m³/d
- RO project, Singapore 2017, 289,000 m³/d RO
- China 2017, 37,992 m³/d RO
- Duliajan-Assam, Dibrugarh, Assam, India 2017, 3,696 m³/d
- Jazan, Saudi Arabia 2016, 168,000 m³/d RO
- Manila, Philippines 2016, 150,000 m³/d RO
- Jamnagar, India 2015, 456,000 m³/d RO
- Accra, Ghana 2014, 60,000 m³/d RO
- Mangalore, India 2014, 21,600 m³/d RO
- Dubai, United Arab Emirates 2014, 931 m³/d
- Jamnagar, Gujarat, India 2013, 168,000 m³/d RO
- Off-shore, Angola 2013, 62,000 m³/d RO
- Kochi, India 2013, 28,800 m³/d RO
- India 2013, 28,000 m³/d RO
- Phuket, Thailand 2013, 25,000 m³/d RO
- Konya, Turkey 2013, 20,400 m³/d RO
- Jeddah, Saudi Arabia 2013, 19,296 m³/d RO
- Balkhash, Kazakhstan 2013, 10,000 m³/d RO
- Tangshan, China 2012, 110,000 m³/d RO
- Dongguan, Guangdong, China 2012, 65,000 m³/d RO
- China , 110,016 m³/d
- United Arab Emirates, 84,000 m³/d
- Turkmenistan,, 58,320 m³/d
- Turkey, 57,600 m³/d
- Ukraine, 48,000 m³/d
- Germany, 38,400 m³/d
- Hungary, 36,000 m³/d
- Egypt, 34,320 m³/d
- Thailand, 24,984 m³/d
- U.S.A., 9,000 m³/d
- Beijing Changping WTP, China 2019, 200,000 m³/d UF
- Al Asilah Desalination, Sharqiyah, Oman 2019, 170,544 m³/d UF
- Al Roubeaky MLD plant, Egypt 2019, 5,000 m³/d RO
- Jurong Island Desalination Plant UF, Singapore, 2019, 207,000 m³/d UF
- USA Municipal Drinking Water Facility, United States 2017, 112,800 m³/d Other / Unknown
- China Drinking Water Facility, China 2017, 100,080 m³/d Other / Unknown
- CRCW, United States 2017, 87,000 m³/d UF
- Saudi Pretreatment RO Wastewater Facility, Saudi Arabia 2017, 85,200 m³/d RO
- India Industrial Facility, India 2017, 81,360 m³/d Other / Unknown
- France Municipal Drinking Water Facility, France 2017, 72,000 m³/d Other / Unknown
- Mery sur Oise, Val-d'Oise , Île-de-France, France 2017, 70,000 m³/d NF
- China Industrial Power Generation Facility, China 2017, 60,000 m³/d Other / Unknown
- India Municipal Wastewater/Reuse Facility, India 2017, 56,640 m³/d Other / Unknown
- China Drinking Water Facility, China 2017, 52,448 m³/d Other / Unknown
- Djerba, Tunisia 2017, 50,000 m³/d RO
- Shandong Power Plant, Shandong, China 2017, 36,000 m³/d RO
- Tar Power Plant, Pakistan 2017, 35,000 m³/d RO
- Moho Nord, Republic of Congo 2017, 35,000 m³/d NF
- Sicagen, Chennai, India 2017, 30,000 m³/d UF
- Oil Field Water, Russia 2017, 28,000 m³/d RO
- Aktau, Kazakhstan 2017, 25,000 m³/d RO
- Dickinson, United States 2017, 22,750 m³/d UF
- Hebei Seawater desalination plant, Hebei, China 2017, 22,500 m³/d RO
- Xinjiang Drinking Water Plant, Xinjiang, China 2017, 20,000 m³/d NF
- Temirtau, Kazakhstan 2017, 18,000 m³/d RO
- Bahia Blanca, Argentina 2017, 15,600 m³/d UF
- Shandong chemical plant MLD project, Shandong , China 2017, 15,000 m³/d RO
- Saras Refinery, Saras, Italy 2017, 12,000 m³/d RO+deionisation
- Charles Meyer Desalination Plant Refit, Santa Barbara, United States 2017, 10,475 m³/d RO
- Sinar Mas Group OKI, Indonesia 2016, 200,000 m³/d RO
- France Municipal Drinking Water Facility, France 2016, 150,000 m³/d Other / Unknown
- China Drinking Water Facility, China 2016, 105,000 m³/d Other / Unknown
- Johanneslöt, Gävle, Sweden 2016, 8,640 m³/d NF
- SAFI Water, United Arab Emirates 2016, 2,000 m³/d RO
- KEMYA, Al Jubail, Eastern province, Saudi Arabia 2016, 1,056 m³/d RO
- Johanneslöt, Gävle, Sweden 2016, 8,640 m³/d NF
- SAFI Water, United Arab Emirates 2016, 2,000 m³/d RO
- Claude "Bud" Lewis Carlsbad Desalination, CA, United States 2015, 190,000 m³/d RO
- Sadara, Saudi Arabia 2015, 179,390 m³/d RO
- Jamnagar, India 2015, 168,000 m³/d RO
- USA Municipal Drinking Water Facility, United States 2015, 79,200 m³/d Other / Unknown
- France Municipal Drinking Water Facility, France 2015, 60,000 m³/d Other / Unknown
- Larnaca Renovation, Cyprus 2015, 60,000 m³/d RO
- Philippines Municipal Drinking Water Facility, Philippines 2015, 50,040 m³/d Other / Unknown
- Angamos, Chile 2015, 11,796 m³/d UF

Equipment Supplier: UF Membranes

- Umm Al Houli, Doha, Qatar 2022, 674,400 m³/d UF
- Tuas Desalination Plant, Singapore 2021, 760,008 m³/d UF

Kiev, Ukraine 2015, 9,000 m³/d RO+deionisation
 Ghana Municipal Drinking Water Facility, Ghana 2014, 135,000 m³/d Other / Unknown
 Jorf Lasfar OCP, Jorf Lasfar, Morocco 2014, 76,566 m³/d RO
 Barka, Oman 2014, 45,000 m³/d RO
 POSCO, Gwang-yang, South Korea 2014, 30,000 m³/d RO
 Mantoverde phase I, Mantoverde, Chile 2014, 10,368 m³/d RO
 Guizhou, Guizhou province, China 2014, 1,200 m³/d RO
 Gansu, Baiyin, Gansu province, China 2014, 1,000 m³/d RO
 Ceyranbatan, Baku, Azerbaijan 2013, 520,000 m³/d UF
 Vasilikos, Cyprus 2013, 60,000 m³/d RO
 Oasis, United States 2013, 32,210 m³/d UF
 Maspalomas, Canary Islands, Spain 2013, 32,000 m³/d RO
 Fountain Hills Sanitary District, AZ, United States 2013, 18,800 m³/d UF
 Maithon Power, Dhanbad, Jharkhand, India 2013, 10,800 m³/d RO
 Erdos, Dongsheng District, Mongolia 2012, 120,000 m³/d NF
 Episkopi, Cyprus 2012, 100,000 m³/d RO
 CRP, Caracas, Venezuela 2012, 74,880 m³/d RO
 Pakistan Municipal, Pakistan 2012, 57,600 m³/d Other / Unknown
 Chanaral, Chile 2012, 25,000 m³/d RO
 Whyalla, Australia 2012, 13,680 m³/d RO
 Orange County GWRS, United States, 700,300 m³/d UF
 Adelaide Desalination, Australia, 626,000 m³/d UF
 Souther Seawater Desalination, Australia, 360,000 m³/d UF
 HERA Rimini, Italy, 152,472 m³/d MBR
 Changi LM3/Train 5, Singapore, 150,000 m³/d MBR
 Geoduk, South Korea, 140,000 m³/d MBR
 Changsha Chengnan, China, 140,000 m³/d UF
 City of Stockton, United States, 136,275 m³/d UF
 City of Highland Park, United StateS, 113,560 m³/d UF
 Townsville, Australia, 100,224 m³/d MBR
 Shek Wu Hui, Hong Kong, 80,000 m³/d MBR
 City of Forest Park, United States, 52,900 m³/d UF
 Modesto Jennings WWTP, United States, 47,696 m³/d MBR
 Morgantown Star City WWTP, United States, 47,696 m³/d MBR
 Liuheng Power Plant, China, 44,300 m³/d UF
 Songdo, South Korea, 42,500 m³/d MBR
 Semirara, Philippines, 35,000 m³/d UF
 Santa Margherita Ligure, Italy, 21,599 m³/d UF
 Yuzhong Energy, China, 13,000 m³/d UF
 Yuedian Shaoguan, China, 11,500 m³/d UF
 Changi Newater, Singapore, 316,000 m³/d
 Jurong Island Desalination Plant UF, Singapore, 207,000 m³/d
 Formosa Plastics, Taiwan, 105,000 m³/d RO
 Gippsland Water Factory, Australia, 44,000 m³/d MBR

Ayer WWTP, Ayer, MA, United States, 9,085 m³/d UV
 Point Pleasant WWTP, Point Pleasant, WV, United States, 4,921 m³/d UV
 Cortland WWTP, Cortland, IL, United States, 0 m³/d UV

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Entegris, Inc. (NASDAQ: ENTG) is a world-class supplier of advanced materials and process solutions for the semiconductor, life sciences, and other high-tech industries.

For decades, we have been committed to solving our customers' most demanding process challenges through a broad solutions portfolio, collaborative and innovative product development, and a focus on science and applications knowledge. With advanced manufacturing capabilities, worldwide infrastructure, customer services, technical support, and unmatched technical expertise, we provide proven performance and reliability to protect your overall process quality and efficiency.

For over 50 years, we have successfully met the water purification specifications of semiconductors, the most demanding industry. From pre-reverse osmosis to clean-in-place processes we understand your challenges and work with you to provide reliable, easy-to-use solutions at a lower cost.

As far as desalination is concerned, Entegris offers corrosion-resistant multi-round filter housings and reliable filters to decrease downtime, increase filter life, and increase operational efficiencies from the laboratory to the largest municipal and industrial applications. These high-loading and low pressure drop filters improve the RO's efficiency and reduce the plant's overall energy consumption. For clean-in-place (CIP) filtration and chemical delivery, our solutions maximize system uptime and reduce operating costs

SELECTED REFERENCES

Equipment Supplier: Cartridge Filters

Mirfa-2, Mirfa, United Arab Emirates 2022, 550,000 m³/d RO
 Sorek 2, Israel 2021, 670,000 m³/d RO
 Adama expansion, Israel 2021, 5,184 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: UV Systems

Sutherlin New WWTP, Sutherlin, Oregon, United States 2018, 34,065 m³/d UV

Umm Al-Quwain, United Arab Emirates 2019, 680,000 m³/d RO
Rabigh 3, Rabigh, Saudi Arabia 2019, 600,000 m³/d RO
Al-Dur II, Al-Dur, Bahrain 2019, 227,000 m³/d RO
Marina East, Singapore 2018, 137,000 m³/d RO
Adama, Israel 2016, 1,728 m³/d RO
Pacific Rubiales, Colombia 2013, 100,000 m³/d RO

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SELECTED REFERENCES

Technology Provider: AOP

infoVision, TFT-LCD, China, 7,200 m³/d Other / Unknown
ASE-K12, Semicon, Taiwan, 3,600 m³/d Other / Unknown
Xintec – Semicon, Taiwan, 3,000 m³/d Other / Unknown
LDT, China, 2,400 m³/d Other / Unknown
T Microelectronic AMK8, Singapore, 1,560 m³/d Other / Unknown
T Microelectronic AMK6, Singapore, 1,440 m³/d Other / Unknown
Kunshan, TFT-LCD, China, 1,440 m³/d Other / Unknown
SE Semiconductor K7, Taiwan, 1,320 m³/d Other / Unknown
ASE-Semiconductor K5, Taiwan, 960 m³/d Other / Unknown
CPC-China Petrochemical, Taiwan, 720 m³/d Other / Unknown
Optimax, Taiwan, 600 m³/d Other / Unknown
Promos microelectronic, Taiwan, 600 m³/d Other / Unknown
LDT-Guandzou Petrochem, China, 432 m³/d Other / Unknown
SE-ChongLi Semicon, Taiwan, 384 m³/d Other / Unknown
CTP, Taiwan, 288 m³/d Other / Unknown
SE Semiconductor k5, Taiwan, 240 m³/d Other / Unknown
PVI, Taiwan, 240 m³/d Other / Unknown
ITRI, Taiwan, 120 m³/d Other / Unknown
Refinery, Russia, Russia, 48 m³/d Other / Unknown
SASOL, South Africa, 24 m³/d Other / Unknown
LDT, China, 2 m³/d Other / Unknown

BTEX

LDT-Guangzhou Petrochem, China, 432 m³/d UV/AOP

COD Reduction

LDT, Guangzhou, China 2018, 2 m³/d UV/AOP
ASE-K12, Semicon, Taiwan, 3,600 m³/d UV/AOP
Xintec – Semicon, Taiwan, 3,000 m³/d UV/AOP
Optimax, Taiwan, 600 m³/d UV/AOP
ASE-ChongLi-Semicon, Taiwan, 384 m³/d UV/AOP

COD Reduction and Oil Content Removal

Industrial AOP pilot (refining), Russia, 48 m³/d UV/AOP

Industrial AOP Pilot for COD and TOC

SASOL, South Africa, 24 m³/d UV/AOP

Odour and VOC Removal

ABN (food waste processing), Netherlands, UV/AOP

Odour Treatment

CPC-China Petrochemical, Taiwan, 720 m³/d UV/AOP

Process Water and TOC Reduction

InfoVision, TFT-LCD, China, 7,200 m³/d UV/AOP

ST Microelectronic-AMK8, Singapore, 1,560 m³/d UV/AOP

ST Microelectronic-AMK6, Singapore, 1,440 m³/d UV/AOP

Promos microelectronic, Taiwan, 600 m³/d UV/AOP

TOC Reduction

Kunshan, TFT-LCD, China, 144,000 m³/d UV/AOP

VOC and COD Treatment

ASE-Semiconductor K7, Taiwan, 1,320 m³/d UV/AOP

ASE-Semiconductor K5, Taiwan, 960 m³/d UV/AOP

ASE-Semiconductor K5, Taiwan, 240 m³/d UV/AOP

VOC Treatment

CTP, Taiwan, 288 m³/d UV/AOP

PVI, Taiwan, 240 m³/d UV/AOP

ITRI, Taiwan, 120 m³/d UV/AOP

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SELECTED REFERENCES

Equipment Supplier: Filtration Materials

Zarat Desalination Plant, Zarat, Tunisia 2022, 50,000 m³/d RO

Hamma, Algeria 2019, 200,000 m³/d RO

Barka, Oman 2017, 281,000 m³/d RO

Djerba, Tunisia 2017, 50,000 m³/d RO

Al Saad, Saudi Arabia 2016, 360,000 m³/d RO

Mirfa, United Arab Emirates 2015, 140,000 m³/d RO

Tenes, Algeria 2013, 200,000 m³/d RO

Aguilas-Murcia, Spain 2013, 180,000 m³/d RO
Copiapo, Chile 2013, 140,000 m³/d RO
Chennai, India 2012, 100,000 m³/d RO
Oropesa, Spain 2012, 50,000 m³/d RO

Evoqua Water Technologies



www.evoqua.com

SELECTED REFERENCES

Equipment Supplier: Disinfection

Reclamation Plant to Process Wastewater for Irrigation Reuse, United States 2015, 60,567 m³/d Other / Unknown

Equipment Supplier: UV Systems

CEMEX, United Kingdom, 3,000 m³/d UV

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SELECTED REFERENCES

Equipment Supplier: Filtration Materials

Fouka II, Fouka, Algeria 2023, 300,000 m³/d RO
Skikda Desalination Plant, Skikda, Algeria 2022, 100,000 m³/d RO
Corso Seawater Desalination Plant, Corso, Algeria 2022, 80,000 m³/d RO
IDAM Rambla Morales, Almeria, Spain 2022, 55,000 m³/d RO
EDAS de Beniadla, Denia, Spain 2022, 25,000 m³/d RO
Beni Saf Desalination Plant, Beni Saf, Algeria 2021, 200,000 m³/d RO
Fouka Desalination Plant, Fouka, Algeria 2021, 120,000 m³/d RO
Beni Saf Desalination Plant, Beni Saf, Algeria 2020, 200,000 m³/d RO
Racons Brackish Water Desalination Plant, Alicante, Spain 2020, 16,000 m³/d RO
Mostaganem Desalination Plant, Mostaganem, Algeria 2019, 200,000 m³/d RO
Cap Djinet Seawater Desalination Plant, Djinet, Algeria 2019, 100,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Static Mixers, Cartridge Filters, Filters and Ultrafiltration Systems

Jubail RJP2, Saudi Arabia 2022, 1,000,000 m³/d RO
North Field Expansion, Qatar 2022, 165,000 m³/d RO
Daesan SWRO, South Korea 2022, 100,000 m³/d RO
SWRO Collahuasi, Chile 2022, 90,000 m³/d RO
Corso, Algeria 2022, 80,000 m³/d RO
Kangan Utility & Offsite Project (Phase II), Spain 2022, 65,000 m³/d RO
Desalination Plant For Manyar Smelter Plant, Indonesia 2022, 50,000 m³/d RO
Kaspy, Kazakhstan 2022, 40,000 m³/d RO
SWRO Plants for remote Areas, Saudi Arabia 2022, 30,000 m³/d RO
SWCC Remote Plants, Saudi Arabia 2022, 30,000 m³/d RO
Golgohar Iron and Steel Development, Germany 2022, 25,000 m³/d RO
48 MLD Jamnagar 2x1 100 Desal Plant, India 2022, 24,000 m³/d RO
WTP Kikinda, Serbia 2022, 8,500 m³/d RO
RAK SWRO, United Arab Emirates 2022, 8,000 m³/d RO
Local Small Capacity Plants, Morocco 2022, 7,500 m³/d RO
Water Desalination Plants North Obur, Saudi Arabia 2022, 7,500 m³/d RO
HKIWMF (Integrated Waste Manag Facility), Hong Kong 2022, 6,000 m³/d RO
NPC Process Water, Egypt 2022, 6,000 m³/d RO
WTP Oleochemical - BWRO & SWRO Feed, Indonesia 2022, 6,000 m³/d RO
Bahamas Nassau New Providence Island, Bahamas 2022, 5,000 m³/d RO
V&A Waterfront, South Africa 2022, 5,000 m³/d RO
P79 FPSO Buzious Oil Filed Development, Brazil 2022, 5,000 m³/d RO
P78 FPSO Buzious Oil Filed Development, Brazil 2022, 5,000 m³/d RO

Equipment Supplier: Cartridge Filters, Filters and Ultrafiltration Systems

Al Shuaiba SWRO Desalination, Saudi Arabia 2021, 600,000 m³/d RO
East Matrough, Egypt 2021, 65,000 m³/d RO
Reghaia SWRO, Algeria 2021, 60,000 m³/d RO
East Bay, Philippines 2021, 50,000 m³/d RO
Zubair, Iraq 2021, 30,000 m³/d RO
Sharm El Sheikh SWRO, Egypt 2021, 30,000 m³/d RO
La Fontaine, Algeria 2021, 22,500 m³/d RO
Jaffna, Sri Lanka 2021, 22,000 m³/d RO
Al Bahadli, United Arab Emirates 2021, 18,000 m³/d RO
Zeralda, Algeria 2021, 18,000 m³/d RO
SWRO Modular Plants, Saudi Arabia 2021, 15,000 m³/d RO
NCIC Extension, Egypt 2021, 12,000 m³/d RO

- Palm Beach, Algeria 2021, 7,500 m³/d RO
 Taba, Egypt 2021, 5,000 m³/d RO
 Al Khobar II – SWRO, Saudi Arabia 2020, 600,000 m³/d RO
 Jubail – SWRO, Saudi Arabia 2020, 400,000 m³/d RO
 Barge – SWRO, United Arab Emirates 2020, 150,000 m³/d RO
 Dubal - SWRO for Jebel Ali Aluminum Smelter, United Arab Emirates 2020, 35,000 m³/d RO
 Layoune – RO, Morocco 2020, 26,000 m³/d RO
 GOPWTU, Germany 2020, 25,000 m³/d RO
 Aktau SWRO, Kazakhstan 2020, 20,000 m³/d RO
 Nuweiba – SWRO, Egypt 2020, 10,000 m³/d RO
 Eramet – Centenario Lithium Project, Argentina 2020, 8,900 m³/d RO
 Shalateen – SWRO Extension, Egypt 2020, 6,500 m³/d RO
 NCIC – SWRO, Egypt 2020, 5,800 m³/d RO
 Umm Al Houll Expansion, Qatar 2019, 280,000 m³/d RO
 NEOM SWRO, Saudi Arabia 2019, 215,000 m³/d RO
 Jebel Ali SWRO, United Arab Emirates 2019, 183,000 m³/d RO
 Jurong Island Desalination Plant (JIDP), Singapore 2019, 137,000 m³/d RO
 Salalah IWP, Oman 2019, 114,000 m³/d RO
 Formosa SWRO Desalination Plant, Taiwan 2019, 105,000 m³/d RO
 Quebrada Blanca SWRO (Mining Project), Chile 2019, 102,360 m³/d RO
 Aghadir SWRO, Morocco 2019, 100,000 m³/d RO
 New Mansoura 20 MLD, Egypt 2019, 100,000 m³/d RO
 Ain Shokna SWRO, Egypt 2019, 64,000 m³/d RO
 Paphos SWRO, Cyprus 2019, 35,000 m³/d RO
 Jazan Refinery SWRO, Saudi Arabia 2018, 200,000 m³/d RO
 Tabouk Water Treatment Plant, Saudi Arabia 2018, 150,000 m³/d RO
 KAEC King Abdullah Economic City SWRO, Saudi Arabia 2018, 30,000 m³/d RO
 Umluj SWRO, Saudi Arabia 2018, 18,000 m³/d RO
 Al Hoceima SWRO, Morocco 2018, 17,300 m³/d RO
 Kalba SWRO, Fujairah, United Arab Emirates 2018, 8,327 m³/d RO
 Tocopilla SWRO, Chile 2018, 6,480 m³/d RO
 SWRO Plant in Emirates Palace, Abu Dhabi, United Arab Emirates 2018, 4,500 m³/d RO
 El Alamein SWRO, Egypt 2017, 150,000 m³/d RO
 Al Jubail SWRO, Saudi Arabia 2017, 100,000 m³/d RO
 Kindasa SWRO, Saudi Arabia 2017, 90,000 m³/d RO
 Cuevas de Almanzora, Spain 2017, 25,000 m³/d RO
 Kaia Tse Polishing plant, Saudi Arabia 2017, 20,000 m³/d RO
 Majis RO I Desalination Plant, Sohar Port, Oman 2017, 20,000 m³/d RO
 Bayovar SWRO, Peru 2017, 10,400 m³/d RO
 Barka IV, Oman 2016, 281,000.0 m³/d RO
 Sohar SWRO, Oman 2016, 250,000.0 m³/d RO
 Putatan WTP, Philippines 2016, 150,000.0 m³/d RO
 El Galalah SWRO, Egypt 2016, 150,000.0 m³/d RO
 Trinidad and Tobago SWRO, Trinidad and Tobago 2016, 130,000.0 m³/d RO
 Al Jubail SWRO, Saudi Arabia 2016, 100,000.0 m³/d RO
 Remelah SWRO, Marsa Matrouh, Egypt 2016, 60,000 m³/d RO
 El Tor SWRO, Egypt 2016, 60,000.0 m³/d RO
 Djerba SWRO, Tunisia 2016, 50,000.0 m³/d RO
 El Oued, Algeria 2016, 30,000 m³/d RO
 Jamnagar SWRO Phase 2, India 2016, 24,000.0 m³/d RO
 Chandra Asri SWRO, Indonesia 2016, 10,000 m³/d RO
 Sal & San Vicente SWRO, Cabo Verde 2016, 10,000 m³/d RO
 Formentera SWRO, Spain 2016, 5,000 m³/d RO
 El Arish SWRO, Egypt 2016, 1,000 m³/d RO
 IWPP Facility D (Qatar), Qatar 2015, 590,000 m³/d RO
 Qurayyat 200 MLD Water Plant, Oman 2015, 200,000 m³/d RO
 RAF 3 Ras Abu Fontas 3 SWRO, Qatar 2015, 160,000 m³/d RO
 Al Yosr II, Egypt 2015, 80,000 m³/d RO
 Al Yosr, Egypt 2015, 45,360 m³/d RO
 Khouribga BWRO, Morocco 2015, 28,512 m³/d RO
 Hassi Messaud SWRO, Algeria 2015, 24,000 m³/d RO
 Desalcott Expansion, Trinidad and Tobago 2015, 15,000 m³/d RO
 Damietta Power Station, Egypt 2015, 10,400 m³/d RO
 Huechun NF, Huechun, Chile 2015, 8,640 m³/d NF
 El Arish, Egypt 2015, 8,500 m³/d Other / Unknown
 Sheikh Zouwayed SWRO, Egypt 2015, 8,338 m³/d RO
 Marassi SWRO, Egypt 2015, 7,500 m³/d RO
 ZADCO Project, Abu Dhabi, United Arab Emirates 2015, 5,185 m³/d RO
 Al Arish SWRO, Egypt 2015, 5,000 m³/d RO
 DEWA, Al Yassat Island RO Plant, Dubai, United Arab Emirates 2015, 5,000 m³/d RO
 Puerto Deseado SWRO, Santa Cruz, Argentina 2015, 3,000 m³/d RO
 Sidi Barani, Egypt 2015, 1,000 m³/d RO
 Hassi R'Mel, Algeria 2015, 650 m³/d RO
 Jamnagar Reliance, Gujarat, India 2014, 160,000 m³/d RO
 Sadara, Saudi Arabia 2014, 150,000 m³/d RO
 Fujairah 1 expansion, Fujairah, United Arab Emirates 2014, 137,000 m³/d RO
 Mirfa, Abu Dhabi, United Arab Emirates 2014, 120,000 m³/d RO
 Remela, Egypt 2014, 27,600 m³/d Other / Unknown
 Copiapo Exp., Copiapo, Chile 2014, 21,816 m³/d RO
 Jeddah North & SOJECO, Jeddah, Saudi Arabia 2014, 15,160 m³/d Other / Unknown
 Jeddah South Port, Jeddah, Saudi Arabia 2014, 15,000 m³/d RO
 City of Tarpon Springs AWS, Florida, United States 2014, 15,000 m³/d RO
 Venta Alta DWTP, Bilbao, Spain 2014, 14,400 m³/d Other / Unknown
 Curaçao phase 6, Curaçao 2014, 10,500 m³/d RO
 King Abdullah University, Jeddah, Saudi Arabia 2014, 10,000 m³/d Other / Unknown
 Aruba VI, Aruba 2014, 10,000 m³/d Other / Unknown
 Mopco, Damietta, Egypt 2014, 8,160 m³/d RO
 Kebilli, Tunisia 2014, 7,560 m³/d RO
 Souk Lahad, Tunisia 2014, 7,560 m³/d RO
 Shalateen SWRO, Shalateen, Egypt 2014, 7,500 m³/d RO
 Buhairat, Jeddah, Saudi Arabia 2014, 7,500 m³/d RO
 Boujdour, Morocco 2014, 7,000 m³/d RO
 Sogeco expansion, Jeddah, Saudi Arabia 2014, 6,500 m³/d RO
 Djelfa, Algeria 2014, 5,800 m³/d Other / Unknown
 Angamos, Chile 2014, 5,600 m³/d RO
 BP Khazzan, Khazzan, Oman 2014, 5,000 m³/d RO
 Zubair, Iraq 2014, 3,080 m³/d RO
 PP10CC-WTP, Riyadh, Saudi Arabia 2012, 168,000 m³/d Other / Unknown
 Rabigh IWPP Phase 2, Rabigh, Saudi Arabia 2012, 120,000 m³/d RO
 SWRO Jorf Lasfar, Morocco 2012, 75,000 m³/d RO
 SWRO Nungua Ghana, Accra, Ghana 2012, 60,000 m³/d RO
 Tia Juana SWRO, Venezuela 2012, 48,000 m³/d RO

Puerto Rosario SWRO, Fuerteventura, Canary Islands, Spain 2012, 48,000 m³/d RO
Barka Phase 3, Barka, Oman 2012, 45,500 m³/d RO
Point Lisas Plant Extension SWRO, Trinidad and Tobago 2012, 18,000 m³/d RO
Tenerife Oeste SWRO, Tenerife, Canary Islands, Spain 2012, 14,000 m³/d RO
Punjilloyd Polysilicon Plant, Doha, Qatar 2012, 12,000 m³/d RO
Qurayyah IPP CCGT Power Plant, Saudi Arabia 2012, 11,520 m³/d Other / Unknown
Saudi City Project, Saudi Arabia 2012, 9,000 m³/d Other / Unknown
Santa Barbara SWRO, Curaçao 2012, 6,000 m³/d RO
Morro Besudo Plant extension, Maspalomas, Spain 2012, 6,000 m³/d RO
Perth II Phase II, WA, Australia 2011, 153,000 m³/d RO
Copiapó, Chile 2011, 30,000 m³/d RO
Saint Thomas, Saint Thomas, Virgin Islands, United States 2011, 30,000 m³/d RO
St. Croix SWRO, Virgin Islands, United States 2011, 8,000 m³/d RO
Soreq, Israel 2010, 500,000 m³/d RO
UDEM Tènés, Algeria 2010, 200,000 m³/d RO
Aruba 2010, 57,000 m³/d RO
IDAM Sagunto, Valencia, Spain 2010, 23,000 m³/d RO
Mossel Bay, South Africa 2010, 15,000 m³/d RO
Algodor, Spain , 65,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: GRP Filters

Zart SWRO, Tunisia 2020, 100,000 m³/d RO

Dubal SWRO 2020, 41,000 m³/d RO

Arish SWRO, Egypt 2020, RO
Taweelah SWRO, United Arab Emirates 2019, 900,000 m³/d RO
Shuqaiq 3 SWRO, Saudi Arabia 2019, 450,000 m³/d RO
Duqm SWRO, Oman 2019, 150,000 m³/d RO
Ras Al Khaimah SWRO, United Arab Emirates 2019, 100,000 m³/d RO
Sousse SWRO, Tunisia 2019, 50,000 m³/d RO
9 SWRO Plants, Saudi Arabia 2019, RO
Antofagasta SWRO, Chile 2019, RO
Shuqaiq SWRO, Saudi Arabia 2018, 500,000 m³/d RO
Shuaibah SWRO, Saudi Arabia 2018, 250,000 m³/d RO
SWCC Satellite Plants, Saudi Arabia 2018, 240,000 m³/d
Al Khobar SWRO, Saudi Arabia 2018, 210,000 m³/d RO

Hangzhou Creflux Membrane Technology



www.crefluxmembrane.com

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Equipment Supplier: UF Membranes

Oji Holdings Wastewater Reuse, Nantong, Jiangsu Province, China 2014, 40,000 m³/d UF

Hangzhou Water Treatment Technology Development Center Co., Ltd



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EPC Contractor, Membrane and Pretreatment Supplier

Ningbo Seawater Desalination System, Ningbo, Zhejiang, China 2022, 12,000 m³/d RO

Shandong Xinhecheng Chemical Water Treatment System, Weifang, Shandong, China 2022, 9,600 m³/d RO

Xinte Energy Huaidong Industrial Park Demineralization Project, Hami, Xinjiang, China 2022, 5,232 m³/d RO

Shandong Xinhecheng Chemical Water Treatment System, Weifang, Shandong, China 2022, 4,800 m³/d RO

Xinte Energy Huaidong Industrial Park Demineralization Project, Hami, Xinjiang, China 2022, 3,840 m³/d RO

Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station, Zigong, Sichuan, China 2022, 3,600 m³/d RO

Zhonghao Chenguang Organic Fluorine Material Project Deionized Water Station, Zigong, Sichuan, China 2022, 2,520 m³/d RO

Russia Methanol Project Seawater Desalination Station Project, Russia 2020, 5,184 m³/d RO

Shanxi Jinmei Tianyuan Chemical Co., Ltd. Wastewater Zero Discharge Technical Reform Project, Jincheng, Shanxi, China 2020, 3,600 m³/d RO

Zhenjiang New Sodium Acid Wastewater Comprehensive Utilization Project, Zhenjiang, Jiangsu, China 2020, 250 m³/d RO

Harmsco Filtration Products



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www.harmasco.com

SELECTED REFERENCES

Equipment Supplier: Prefiltration and Drinking Water

New York, United States of America, 2,866 m³/d

Colorado, United States of America, 1,642 m³/d

California, United States of America, 8,726 m³/d

Texas, United States of America, 2,722 m³/d

Equipment Supplier: Prefiltration

Italy, 5,520 m³/d RO

Azerbaijan, 3,600 m³/d RO

Czech Republic, 7,200 m³/d RO

Italy, 3,600 m³/d RO

Romania, 3,600 m³/d RO

Washington, United States of America, 2,722 m³/d

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www.membranes.com

SELECTED REFERENCES

Equipment Supplier: RO Membranes and UF Modules

Emicool TSE Polishing, Dubai, United Arab Emirates 2016, 2,900 m³/d RO

Arab Center TSE Polishing, Doha, Qatar 2016, 760 m³/d RO

Majis CETRP, Sohar, Oman 2015, 10,000 m³/d RO

Lusail TSE Polishing, Doha, Qatar 2015, 6,600 m³/d RO

West Bay TSE Polishing, Doha, Qatar 2015, 5,000 m³/d RO

Wafi Mall TSE Polishing, Dubai, United Arab Emirates 2015, 1,000 m³/d RO

Dubai Parks TSE Polishing, Dubai, United Arab Emirates 2015, 1,000 m³/d RO

Emaar DCP3, Dubai, United Arab Emirates 2014, 20,160 m³/d RO

Gulf Cement WWTP, Ras Al Khaimah, United Arab Emirates 2013, 1,000 m³/d RO

Equipment Supplier: GAC

Laguna Lake Drinking Water Treatment Plant, Manila, Muntinlupa, Philippines 2023, 150,000 m³/d RO

Equipment Supplier: Polyelectrolyte Dosing System

The Umm Al Houf desalination plant, Qatar 2015, 284,000 m³/d RO

Equipment Supplier: Polyelectrolyte Equipment

Barka V IWP, Oman 2020, 100,000 m³/d RO

Equipment Supplier: Pressurized MM Filter and GAC Filter, Carbon Steel

East Bay Drinking Water Treatment Plant, Manila, Pakil-Laguna, Philippines 2021, 50,000 m³/d RO

ItN Nanovation



www.itn-nanovation.com

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Equipment Supplier: UF Membranes and Ceramic Flat Membranes (CFM)

Yingkou, Liaoning, China 2018, 100,000 m³/d RO

Kuryk, Mangghystau Oblysy, Kazakhstan 2018, 50,000 m³/d RO

Red Sea Gate, Jeddah, Saudi Arabia, 300 m³/d UF

St Wendel Hotel, St Wendel, Germany, 50 m³/d MBR

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Equipment Supplier: BAF Gravel Support

Putatan water treatment plant 2, Putatan, Philippines 2016, 150,000 m³/d RO

Equipment Supplier: Filter Media (Anthracite)

Al Khobar 2, East Coast, Saudi Arabia 2020, 600,000 m³/d RO

Shuqaiq 3 SWRO, Coast of the Red Sea, Saudi Arabia 2019, 450,000 m³/d RO

Equipment Supplier: Filter Media (Anthracite, Sand, Gravel and Calcite)

SWRO El Alamein, El Alamein, Egypt 2016, 150,000 m³/d RO

Equipment Supplier: Filter Media (Anthracite, Silica Sand and Gravel)

Sousse SWRO, Sousse, Tunisia 2017, 50,000 m³/d RO

Equipment Supplier: Filter Nozzles and Sight Glasses for RO

Nungua Desalination Plant, Accra, Ghana 2015, 60,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: DAF Pretreatment

Daesan SWRO plant, South Korea 2023, 232,200 m³/d RO

Bangkok WTP, Thailand 2023, 115,200 m³/d Other / Unknown

SOPC Oil and Gas, Egypt 2023, 48,000 m³/d Other / Unknown

Sarney WTP, Iran 2022, 129,600 m³/d Other / Unknown

Duqm SWRO plant, Oman 2022, 105,600 m³/d RO

East Bay SWRO plant, Philippines 2022, 58,080 m³/d RO

Ghubrah III SWRO plant, Ghubrah, Muscat, Oman 2021, 748,000 m³/d RO

Yingkou SWRO, Liaoning, China 2021, 456,000 m³/d RO

Chennai SWRO plant, Chennai, Coromandel, India 2021, 375,000 m³/d RO

Barka V SWRO plant, Barka, Al Batinah, Oman 2021, 245,000 m³/d RO

Kuryk SWRO, Mangystau, Kazakhstan 2021, 108,000 m³/d RO

Thangshan SWRO plant, Tangshan, Hebei, China 2021, 100,000 m³/d RO

Jubail 2 SWRO plant, Jubail, Eastern Province, Saudi Arabia 2020, 1,000,000 m³/d RO

Pertamina SWRO plant, Balikpapan, East Kalimantan, Indonesia 2020, 243,000 m³/d RO

Dubal SWRO plant, United Arab Emirates 2020, 99,400 m³/d RO

Jawa SWRO plant, Indonesia 2020, 9,600 m³/d RO

Taweelah SWRO, Abu Dhabi, United Arab Emirates 2019, 909,000 m³/d RO

Desalination plant PROVISUR, Lima, Peru 2018, 8,800 m³/h RO
Spence Copper Mine Desalination Plant, Spence Mine, Chile 2018,
8,800 m³/h RO
Rabigh 2, Saudi Arabia 2014, 9,590 m³/d RO
Al Zawrah SWRO plant, U.A.E, 2012, 139,200 m³/d RO

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Equipment Supplier: Low Pressure Membranes

Marienhospital, Gelsenkirchen, Gelsenkirchen, Germany, 200
m³/d MBR
Municipal WWTP, Israel, 4,000 m³/d MBR
Tuna Cannery, Mexico, 1,150 m³/d MBR

Meidensha Corporation



www.meidensha.com

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Equipment Supplier: MBR Systems

New York, United States 2018, 178 m³/d MBR

Mitsubishi Chemical Corporation



www.m-chemical.co.jp

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Equipment Supplier: MBR Membranes

Dammam Industrial City-1 WWTP MBR unit, Dammam, Eastern
Province, Saudi Arabia 2014, 5,000 m³/d MBR

Nanostone



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SELECTED REFERENCES

Equipment Supplier: Ceramic UF Membranes

Power plant, Xinjiang, China 2023, 15,120 m³/d UF
Power plant, Shandong, China 2023, 6,480 m³/d UF
Electronics plant, Zhejiang, China 2023, 3,480 m³/d UF
Electronics plant, Zhejiang, China 2023, 2,160 m³/d UF
Display manufacturing plant, Anhui, China 2023, 1,848 m³/d UF
Specialty glass plant, Hunan, China 2023, 1,080 m³/d UF
Refinery, Jiangsu, China 2022, 6,182 m³/d UF
Specialty glass plant, Anhui, China 2022, 5,553 m³/d UF
Chemical plant, Zhejiang, China 2022, 5,000 m³/d UF
Power plant, Anhui, China 2022, 4,320 m³/d UF
Power plant, Shandong, China 2022, 3,960 m³/d UF
Wafer plant, Zhejiang, China 2022, 3,600 m³/d UF
PV manufacturing plant, Xinjiang, China 2022, 3,312 m³/d UF
Coal mine, Shanxi, China 2022, 2,112 m³/d UF
Semiconductor fab, Anhui, China 2022, 1,920 m³/d UF
Power plant, Anhui, China 2022, 1,872 m³/d UF
Refinery, Hunan, China 2022, 1,800 m³/d UF
Chemical plant, Zhejiang, China 2022, 1,728 m³/d UF
Semiconductor fab, Anhui, China 2022, 1,440 m³/d UF
PV manufacturing plant, Ningxia, China 2022, 1,392 m³/d UF
Semiconductor fab, Singapore 2022, 1,363 m³/d UF
Power plant, Xinjiang, China 2022, 1,200 m³/d UF
Steel plant, Innermongolia, China 2022, 960 m³/d UF
Display manufacturing plant, Anhui, China 2022, 800 m³/d UF
Chemical plant, Jiangsu, China 2022, 576 m³/d UF
Chemical plant, Shandong, China 2022, 456 m³/d UF
Semiconductor plant, Shanghai, China 2022, 420 m³/d UF
Semiconductor fab, Taiwan, Hsinchu, China 2022, 150 m³/d UF
Semiconductor fab, Shanghai, China 2022, 144 m³/d UF
Xiaojihan coal mining wastewater reuse, Yulin, Shanxi province,
China 2019, 34,848 m³/d UF
Huadian Weifang power plant cooling tower water reuse, Weifang,
Shandong province, China 2018, 9,360 m³/d UF

Huozhou coal electricity group of Ivliangshan Dianping mine water treatment project, Huozhou, Shanxi province, China 2018, 6,000 m³/d UF

Wistron Kunshan grinding waste water & cutting waste water reuse, Kunshan, Jiangsu province, China 2018, 4,400 m³/d UF

Huadian Jurong FGD waste water ZLD project, Jurong, Jiangsu province, China 2018, 4,000 m³/d UF

Huadian Jinxing Power Xiaojiawa coal mine water reuse, Xiaojiawa, Shanxi province, China 2018, 3,900 m³/d UF

SMIC HF waste water ZLD project, Shanghai, China 2018, 3,000 m³/d UF

Wujing power plant cooling tower water reuse, Shanghai, China 2018, 1,440 m³/d UF

Huatian Kunshan electronic waste water phase 2, Kunshan, Jiangsu province, China 2018, 1,000 m³/d UF

Semiconductor manufacturer grinding waste water reuse phase4, East China, China 2018, 800 m³/d UF

Malaysia grinding waste water & cutting waste water reuse project, Malaysia 2018, 480 m³/d UF

Suzhou Power Plant cooling tower waste water reuse phase 1 and 2, Suzhou, Anhui province, China 2017, 7,200 m³/d UF

CNSIC Hongsifang waste water reuse, Hefei, Anhui province, China 2017, 3,600 m³/d UF

Huatian Kunshan grinding waste water & cutting waste water reuse project phase 1, Kunshan, Jiangsu province, China 2017, 1,920 m³/d UF

Semiconductor manufacturer grinding waste water reuse phase3, East China, China 2017, 800 m³/d UF

Qinghai Salt Lake Group Haina Chemical waste water reuse, Xining, Qinghai province, China 2016, 3,120 m³/d UF

Semiconductor manufacturer waste water reuse phase 1, East China, China 2016, 1,200 m³/d UF

Semiconductor manufacturer grinding waste water & cutting waste water reuse project phase2, East China, China 2016, 800 m³/d UF

China Coal Menkeqing Coal mine, Wushen, Inner Mongolia, China, 60,000 m³/d RO

Huadian Yuheng Xiaojihan Coal Mine, Yulin, Shanxi, China, 44,000 m³/d RO

China Coal Muduchaideng Coal mine, Wushen, Inner Mongolia, China, 11,520 m³/d RO

Wistron Corporation (Kunshan) Grinding & Cutting WW Reuse, Kunshan, Jiangsu, China, 5,040 m³/d RO

Datang Linqing BFW Retrofit Project, Shandong, China, 3,960 m³/d RO

Henan Xinlianxin Group, Pingdingshan, Henan, China, 2,880 m³/d RO

Nixi Semiconductor Technology, Shanghai, China, 1,650 m³/d RO

Qingdao Huike Project, Qingdao, Shandong, China, 1,512 m³/d RO

Shanghai Kaihong Project, Shanghai, China, 1,378 m³/d RO

Micron SG Grinding Wastewater reuse, Singapore, 1,363 m³/d RO

Huatian Technology (Kunshan) Electronics Co. Ltd Cutting Waste Water, Kunshan, Jiangsu, China, 1,351 m³/d RO

Zhejiang Jinruihong Grinding Waste Water Project, Ningbo, Zhejiang, China, 1,212 m³/d RO

Huatian Technology (Kunshan) Electronics Co. Ltd Heavy Metal Waste Water, Kunshan, Jiangsu, China, 1,200 m³/d RO

ASE Backgrinding & Dicing Saw Wastewater reuse, Singapore, 1,158 m³/d RO

Global Foundries, Malta, New York, United States, 1,150 m³/d RO

Hangzhou Shilan, Hangzhou, Zhejiang, China, 1,008 m³/d RO

Huatian Technology (Kunshan) Electronics Co. Ltd Grinding Waste Water, Kunshan, Jiangsu, China, 772 m³/d RO

Micron Batu Kawan Ph.2 Wastewater reuse, Seberang Perai, Penang, Malaysia, 600 m³/d RO

Ferrotec (Hangzhou), Hangzhou, Zhejiang, China, 595 m³/d RO

Chinalco Ningxia Yingxing power plant, Yinchuan, Ningxia, China, 480 m³/d RO

Micron Batu Kawan Wastewater reuse, Seberang Perai, Penang, Malaysia, 360 m³/d RO

Jining Birla Carbon High Salinity Wastewater TMF Retrofit, Jinan, Shandong, China, 360 m³/d RO

Wuhan Qianshui Environment Science and Technology, Wuhan, Hubei, China, 336 m³/d RO

Shanxi Energy Shangluo Power Plant, Shangluo, Shanxi, China, 308 m³/d RO

Universal Scientific Industrial (Shanghai) Co. Ltd.(ASE HUANXU), Shanghai, China, 288 m³/d RO

Huawei (Wuhan), Wuhan, Hubei, China, 240 m³/d RO

Shanghai Jita Semiconductor Waste Water Reuse, Shanghai, China, 144 m³/d RO

Nijhuis Industries



www.nijhuisindustries.com

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Equipment Supplier: DAF Pretreatment System

Singapore 2017, 136,380 m³/d RO

Pall Corporation



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www.pall.com

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Equipment Supplier: MF and RO Membranes

Manila, Philippines 2013, 100,000 m³/d RO

Equipment Supplier: MF Membranes

Westside Recycled Water Project, San Francisco, United States 2017, 6,056 m³/d RO

Sohar, Oman 2013, 3,000 m³/d RO

Equipment Supplier: MF Pretreatment System

Barka, Oman 2015, 56,780 m³/d RO

Equipment Supplier: Pretreatment System

Asyut, Egypt 2015, 13,440 m³/d RO

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www.passavant-geiger.com/en/water-intakes-and-pumping-stations

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Equipment Supplier: Water Intake Screening Equipment

Jebel Ali Power and Desalination Plant, Dubai, United Arab Emirates 2020, 181,840 m³/d RO
Marina East Desalination Plant, Singapore 2018, 136,380 m³/d RO
Barka IV Power and Desalination Plant, Oman 2017, 281,000 m³/d RO
Sohar Power and Desalination Plant, Oman 2017, 250,000 m³/d RO
Doha West Power and Desalination Plant, Kuwait 2016, 392,400 m³/d MSF
Ras Abu Fontas A3 Desalination Plant, Qatar 2016, 164,000 m³/d RO
Shoiba Power and Desalination Plant SWCC, Saudi Arabia 2015, 91,200 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Low Pressure Membranes

Offshore SW-UF, Offshore, Brazil 2023, 71,800 m³/d
Offshore SW-UF, Offshore, Angola 2023, 45,000 m³/d
Offshore SW-UF, Offshore, Brazil 2022, 54,600 m³/d
Drinking water UF, Harelbeke, Belgium 2022, 50,000 m³/d
Offshore SW-UF, Offshore, Persian Gulf 2022, 27,800 m³/d
Drinking water UF, Tashkent, Uzbekistan 2022, 26,000 m³/d
SWRO UF, Chennai, India 2021, 340,000 m³/d
Drinking water UF, Trollhättan, Sweden 2021, 28,000 m³/d
Drinking water UF, Gothenburg, Sweden 2021, 6,600 m³/d
SWRO UF, Copiapó, Chile 2021, 74,000 + 49,000 m³/d
Drinking water UF, Gothenburg, Sweden 2019, 186,000 m³/d
Dual mode SWRO & BWRO UF, Singapore 2017, 300,000 m³/d
SWRO UF, Calama, Chile 2017, 19,400 m³/d
SWRO UF, Ras al-Khafji, Saudi Arabia 2016, 175,000 m³/d
WTP Drinking water UF, Kungälv, Sweden 2016, 26,000 m³/d
BWRO UF, Basra, Iraq 2014, 266,000 m³/d
WTP Drinking water UF, Skärholmen, Sweden 2014, 26,000 m³/d
SWRO, Al Jubail, Saudi Arabia 2013, 430,000 m³/d
SWRO UF, Al Jubail, Saudi Arabia 2012, 260,000 m³/d

SWRO UF, Al Jubail, Saudi Arabia 2012, 240,000 m³/d
SWRO UF, Barka, Oman 2012, 110,000 m³/d

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SELECTED REFERENCES

Equipment Supplier: Filters

Shuqaiq 4 IWP, Saudi Arabia 2021, 400,000 m³/d RO
Laguna Lake, Philippines 2021, 100,000 m³/d RO
Jubail 3A SWRO, Saudi Arabia 2020, 600,000 m³/d RO
El Arish, Egypt 2020, 100,000 m³/d RO
Basra, Iraq 2020, 100,000 m³/d Other / Unknown
Sousse, Tunisia 2020, 50,000 m³/d RO
Zarat, Tunisia 2020, 50,000 m³/d Other / Unknown
Barge, Saudi Arabia 2020, 50,000 m³/d Other / Unknown
TRSDC, Saudi Arabia 2020, 12,500 m³/d Other / Unknown
Sukari Gold Mine, Egypt 2020, 2,000 m³/d Other / Unknown
Taweelah, United Arab Emirates 2019, 909,000 m³/d RO
Shuqaiq III, Saudi Arabia 2019, 450,000 m³/d RO
Al Khobar, Saudi Arabia 2019, 250,000 m³/d RO
Marina East SWRO, Singapore 2019, 200,000 m³/d RO
Tseung Kwan O SWRO, China 2019, 135,000 m³/d RO
Antofagasta, Chile 2019, 105,600 m³/d Other / Unknown
Dubal, United Arab Emirates 2019, 41,000 m³/d RO
Duqum, Oman 2019, 36,000 m³/d RO
TRSDC, Saudi Arabia 2019, 12,500 m³/d RO
Desalitech, Malaysia 2019, 6,300 m³/d Other / Unknown

Equipment Supplier: FRP Filter Housings

Jubail 3B, Al Jubail, Saudi Arabia 2021
Sfax, Tunisia 2021
Jorf Lasfar Phase 2, Jorf Lasfar, Morocco 2021
San Diego North RO, San Diego, California, United States 2021, RO
WBII Grand Cayman SWRO, Grand Cayman, Cayman Islands 2021, RO

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SELECTED REFERENCES

Equipment Supplier: Media Filters

Al Yasat Island, United Arab Emirates 2020, 9,500 m³/d RO
Lambayeque, Peru 2020, RO
Saudi Arabia 2020, RO
Bonaire, Netherlands 2020, RO
Bahrain Steel, Bahrain 2020, RO
Kedougou, Senegal 2019, RO
Foundiougne, Senegal 2019, RO
Dakar, Senegal 2019, RO
Dubai, Saudi Arabia 2017, 8,000 m³/d RO
Al Raja, United Arab Emirates 2017, RO
Qatar 2015, RO
Fonsalía (Guía de Isora), Spain 2014, 14,000 m³/d RO
Las Cruces, Seville, Spain 2012, RO

Hebei Taihang Iron and Steel Group Co., Ltd. UF Project, Hebei Province, China 2020, 19,968 m³/d RO

Yangshuihe UF Project of Guizhou Kailin Fertilizer Co., Ltd., Guizhou, China 2020, 15,120 m³/d RO

Chemical Water Updating EPC Project for China Guodian Shenyang Thermal Power Plant, Shenyang, China 2020, 13,680 m³/d RO

Zhenhai Power Plant Boiler Water Supply UF Project of Zhejiang Energy Group Co., Ltd., China 2020, 12,312 m³/d RO

Dry Quenching Plant Desalination Project (2x190), India 2020, 12,024 m³/d RO

UF Project of Chenzhen Energy Chaoan Power Plant, Guangdong, China 2020, 9,600 m³/d RO

Osmoflo Seawater Containerized Purification System for Potable Use, Thailand 2020, 9,000 m³/d RO

Desalinated Water Project of Xinlianxin Fertilizer Co., Ltd., Henan Province, China 2019, 22,680 m³/d RO

Source leakage sewage treatment project, Jiaoyishan Phosphogypsum storage yard, Guizhou Crach-Guiyang Phosphorus Fertilizer Co., Ltd, Guizhou, China 2019, 20,400 m³/d UF

Reclaimed Water Project of Xinlianxin Fertilizer Co., Ltd., Henan Province, China 2019, 19,152 m³/d RO

Laiwu UF Project of Shandong Fulun Steel Company Ltd. of Jiuyang Enterprise Group, Shandong Province, China 2019, 18,860 m³/d RO

Bin Tanzania UF Project of Nanshan Group, Bin Tanzania, Indonesia 2019, 15,480 m³/d RO

UF Project for Expansion Desalting System of Shandong Bin Yang Gasification Co., Ltd., Binyang, Shandong Province, China 2019, 9,720 m³/d RO

Beijing Future Science and Technology City Water Plant, Beijing, China 2012, 80,000 m³/d UF

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SELECTED REFERENCES

EPC Contractor and Equipment Supplier

Beijing Changping New City Regeneration Water Plant, Beijing, China 2015, 22,000 m³/d UF

Equipment Supplier: Low Pressure Membranes

Huaneng Zhengning coal power coal mine wastewater advanced treatment project, Gansu, Qingyang, China 2022, 39,000 m³/d UF
Xintian Coal Chemical biochemical workshop replacement project, Xinjiang, Yili, China 2022, 30,720 m³/d UF
Tisco NO.3 membrane workshop water reuse system project, Taiyuan, Shanxi, China 2022, 25,200 m³/d UF
Shougang Hierro Peru Seawater Desalination expansion project, Peru 2022, 22,464 m³/d UF
Huizhou Pinghai power plant project, Guangdong, Huizhou, China 2022, 12,000 m³/d UF
Baoyi thermal power plant reclaimed water transformation project, Inner Mongolia, Baotou, China 2022, 11,500 m³/d UF
Shihezi sewage treatment system project, Shihezi, Xinjiang, China 2022, 10,080 m³/d UF
China Coal Yulin Energy & Chemical Co., Ltd. Project, Yulin, Gansu, China 2020, 22,656 m³/d RO

Equipment Supplier: Membranes (Replacement)

Pretreatment Plant at APP OKI Pulp & Paper Mills, Indonesia 2020, 66,000 m³/d RO

Submerged UF Replacement Project II of TISCO Shanxi Taigang Stainless Steel Co., Ltd., Shanxi Province, China 2020, 17,556 m³/d RO

UF Replacement Project of Petro-China Lanzhou Petrochemical Company, Lanzhou, Gansu, China 2020, 13,249 m³/d RO

UF Project of Inner Mongolia Wuhai Chemical Industry Co., Ltd., Inner Mongolia, China 2020, 12,816 m³/d RO

Desalination Plant UF Replacement Project for Shuangxin Environment-Friendly Material Co., Ltd., Inner Mongolia, China 2020, 11,760 m³/d RO

HD UF Project of Indonesia Coal-fired Power Plant Project, Indonesia 2020, 1,600 m³/d RO

Aqueous Seawater Desalination Containerized Project, United States 2019, 24,000 m³/d UF

UF Replacement Project of the Cangzhou Power Plant, Cangzhou, Hebei Province, China 2019, 12,000 m³/d RO

Fengnan Steel UF Replacement Project I of Hebei Zongheng Steel & Iron Group Co., Ltd., Hebei Province, China 2019, 12,000 m³/d RO

GE Retrofit Project of Chesapeake Drinking Water Plant, Virginia, United States 2019, 6,280 m³/d UF

Barwon Water Municipal Wastewater Project, Australia 2018, 6,600 m³/d UF

Shenhua Ningxia Coal Group Olefin cleaning water UF workshop, Ningdong, Ningxia province, China 2017, 70,000 m³/d RO

Scinor Water America



www.scinor.com

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Equipment Supplier: MF Membranes

Pure Water Monterey, Monterey, California, United States 2017, 15,140 m³/d RO

Equipment Supplier: UF Membranes

West Basin Edward C. Little Water Recycling Facility, El Segundo, California, United States 2017, 41,639 m³/d RO

Al-Ghubrah, Oman 2012, 190,932 m³/d RO
Carlsbad, United States 2012, 190,000 m³/d RO
Fujairah F1 Expansion, United Arab Emirates 2012, 171,000 m³/d RO
Barka Desalination Plant, Oman 2012, 120,000 m³/d RO
Fujairah II, United Arab Emirates, 640,000 m³/d RO
North Field Expansion Project, Qatar Peninsula, Offshore Qatar, Qatar Offshore, Qatar

Shanghai SafBon Water Service



www.safbonwater.com/safbon-shanghai

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EPC Contractor (Pretreatment)

Taweelah SWRO, Abu Dhabi, United Arab Emirates 2019, 909,000 m³/d RO

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SELECTED REFERENCES

Equipment Supplier: Tube Cleaning Systems and Debris Filters

Umm al Houf IWPP, Qatar 2016, 347,770 m³/d MSF
Barka 1, Oman 2015, 56,780 RO
Ras Abu Fontas A 2, Qatar 2013, 163,656 m³/d MSF
Dubai Aluminium, United Arab Emirates 2013, MSF
SWCC Al Khobar, Saudi Arabia 2012, MSF

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SELECTED REFERENCES

Equipment Supplier: Static Mixers

Collahuasi Mine, Patache Port, Iquique, Patache Port, Chile 2022, 90,720 m³/d

Sorek 2, Tel Aviv, Israel 2021, 548,000 m³/d RO

Yanbu 4, Ar Rayyis, Red Sea Coast, Saudi Arabia 2021, 450,000 m³/d RO

Tseung Kwan O Stage 1, Tseung Kwan O, Hong Kong 2021, 270,000 m³/d RO

Jaffna, Sri Lanka 2021, 24,000 m³/d RO

Doha RO Ph1, Middle East, Kuwait 2017, 189,250 m³/d

Marafiq, Jubail, Middle East, Saudi Arabia 2016, 800,000 m³/d

Aguas Antofagasta, South America, Chile 2016

Unm Al Houf, Qatar 2015, 620,000 m³/d RO

Yanbu Phase 3, Saudi Arabia 2015, 550,000 m³/d Other / Unknown

Ras Abu Fontas A3, Qatar 2015, 136,000 m³/d RO

Az Zour North, Kuwait 2014, 486,000 m³/d RO

Escondida, Chile 2013, 216,000 m³/d RO

Jeddah III SWRO, Saudi Arabia 2012, 240,000 m³/d RO

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Equipment Supplier: Pumice Filtration Media

Desaladora de Escombreras, Escombreras, Murcia, Spain 2016, RO
Aramco, Dammam, Saudi Arabia 2016, RO
Al Jubail, Saudi Arabia 2016, RO
Sur IWP, Sohar, Oman 2015, RO
London, United Kingdom 2015, NF
Mumbai, India 2014, RO
Kempton Park WTW, London, United Kingdom 2014, Tertiary
Muscat, Oman 2014, RO
Paris, France 2014, NF
Al Aweer STP, Dubai, United Arab Emirates 2014, RO
Sur IWP, Sohar, Oman 2014, RO
Helsinki, Finland 2013, Other

San Miguel, AD, Malaga, Spain 2013, Other
Al Qurayat, Muscat, Oman 2013, RO
Utrecht, Netherlands 2013, NF
Fujairah F1, United Arab Emirates 2013, RO
Kindasa Phase A O&M, Jeddah, Saudi Arabia 2013, RO
Geneva, Switzerland 2012, Other
Fujairah 1, United Arab Emirates 2012, RO
Desaladora de Oropesa, Oropesa del Mar, Spain 2012, RO
Kindasa Expansion BOO, Jeddah, Saudi Arabia 2012, RO
Oil & Gas OM, Houston, United States 2012, NF
EPC Baiji/Salahaldeen, Baghdad, Iraq 2012, NF
Al Jubail, Saudi Arabia, RO (Reverse Osmosis)

Tecnoquimica Exterior



www.tecexsa.es/en

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Equipment Supplier: DAF Pretreatment System

Al Ghubrah, Oman 2012, 190,932 m³/d RO

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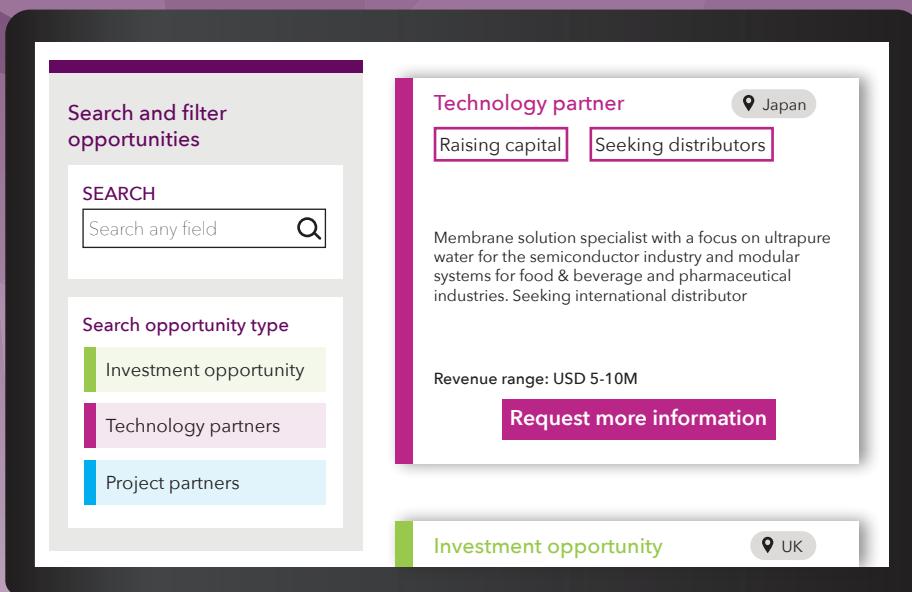


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RPI Antiscalants: ROPUR RPI® Antiscalants for RO system (<https://ropur.com/>)

See pp. 224–234 for Membranes references.

Equipment Supplier: UV/AOP System

Los Angeles, Los Angeles, California, United States 2015, 22,710 m³/d RO

Subcontractor and Equipment Supplier: UV/AOP

San Diego, California, United States 2019, 128,690 m³/d RO

Trojan Technologies



www.trojantechnologies.com

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Equipment Supplier: Disinfection Systems

MWD Regional Recycled Water Scheme, CA (Demo plant), Los Angeles, California, United States 2019, 1,892 m³/d MBR/RO-UV/AOP

Groundwater Reliability Improvement Programme, California, United States 2016, 33,520 m³/d RO

Oceanside IPR, Oceanside, California, United States 2020, 11,355 m³/d RO+AOP

Albert Robles Center for Water Recycling and Environmental Learning, Water Reclamation District, California, United States 2017, 56,775 m³/d UV/AOP

Fresno-Clovis Water Reclamation Facility, Fresno, California, United States 2014, 18,925 m³/d UV/AOP

Groundwater Replenishment System Expansion, Fountain Valley, California, United States 2012, 113,550 m³/d RO

Leo J Vander Lans Avanced Water Treatment Facility Expansion, Long Beach, California, United States 2012, 18,925 m³/d RO

Xylem Inc.



www.xylem.com/en-uk

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Equipment Supplier: Leopold Clari-DAF System

Fujairah, United Arab Emirates 2012, 136,000 m³/d RO

Equipment Supplier: Ozone and UV/AOP

Monterey, California, United States 2017, 15,140 m³/d RO

Equipment Supplier: UV System

Pure Water Project Demo, Agoura Hills, California, United States 2019, 545 m³/d RO

San Francisco, California, United States 2017, 6,056 m³/d RO

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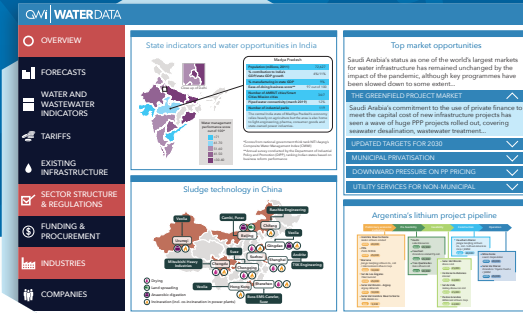
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