A large industrial facility, likely a water treatment plant, featuring rows of white cylindrical components (possibly membrane modules) and complex metal piping systems. The structure is supported by a high, steel truss roof. The perspective is from a low angle, looking down a long aisle between the rows of equipment.

Doosan Heavy Industries & Construction

Integrated solutions for a better life
DOOSAN WATER PLANTS



Building your tomorrow today

INTEGRATED SOLUTIONS FOR A BETTER LIFE

Doosan Heavy Industries & Construction is one of the leading providers of water solutions. Our proven portfolio of RO, MED, MSF desalination technologies enables us to deliver high-efficiency turnkey solutions with the shortest lead times in the industry. With a full range of engineering services within the water & wastewater treatment sector, we provide you with integrated solutions for a better life.



Shuaibah Ph.3 IWPP & Expansion RO, Saudi Arabia

CONTENTS

INTRODUCTION	04
DESALINATION PLANTS	06
- RO PROCESS	07
- MED PROCESS	08
- MSF PROCESS	09
MAJOR REFERENCES	
- DESALINATION PLANT PROJECTS	10
OPERATION & MAINTENANCE	11
DOOSAN ENPURE	12
MAJOR REFERENCES	
- WATER & WASTEWATER TREATMENT PLANT PROJECTS	13
DOOSAN HYDRO TECHNOLOGY	14
MAJOR REFERENCES	
- MEMBRANE SOLUTION PROJECTS	15
RESEARCH & DEVELOPMENT	16
MANUFACTURING FACILITIES	17
REFERENCES	18
GLOBAL NETWORK	20



INTRODUCTION



First water production at Fujairah Hybrid in UAE in 2004

Doosan Heavy Industries & Construction

At Doosan Heavy Industries & Construction, our vision is to be a global leader in power and water. With nearly five decades of experience as a partner for growth and progress around the world, we are committed to helping our customers meet the challenges and opportunities of the future as we act proactively, provide completely, and share passionately to lead tomorrow today.

Revenue
(KRW in billions)



18,128

(2014 figures)

Employees
(Persons)



8,178

(2014 figures)

Credit Rating
(Korea Ratings)



A

(December 2014)

Main Business Portfolio

EPC

Power

Water

Nuclear Power

Castings & Forgings

Business Portfolio

Water Treatment	Desalination	Operation & Maintenance
Advanced Water Treatment Municipal Wastewater Treatment & Reclamation Industrial Water & Wastewater Treatment	Reverse Osmosis (RO) Multi-Effect Distillation (MED) Multi-Stage Flash (MSF)	Desalination Plants Water & Wastewater Treatment Plants

DESALINATION PLANTS

▼ RO (Reverse Osmosis)



JEDDAH PH.3 RO, Saudi Arabia

▼ MED (Multi-Effect Distillation)



MARAFIQ YANBU MED, Saudi Arabia

▼ MSF (Multi-Stage Flash)



SHUWEIHAT S2, UAE

Known for delivering advanced and reliable desalination plants, Doosan is one of the few companies in the world that offers proprietary technologies for all three main desalination processes: Reverse Osmosis (RO), Multi-Effect Distillation (MED) and Multi-Stage Flash (MSF).

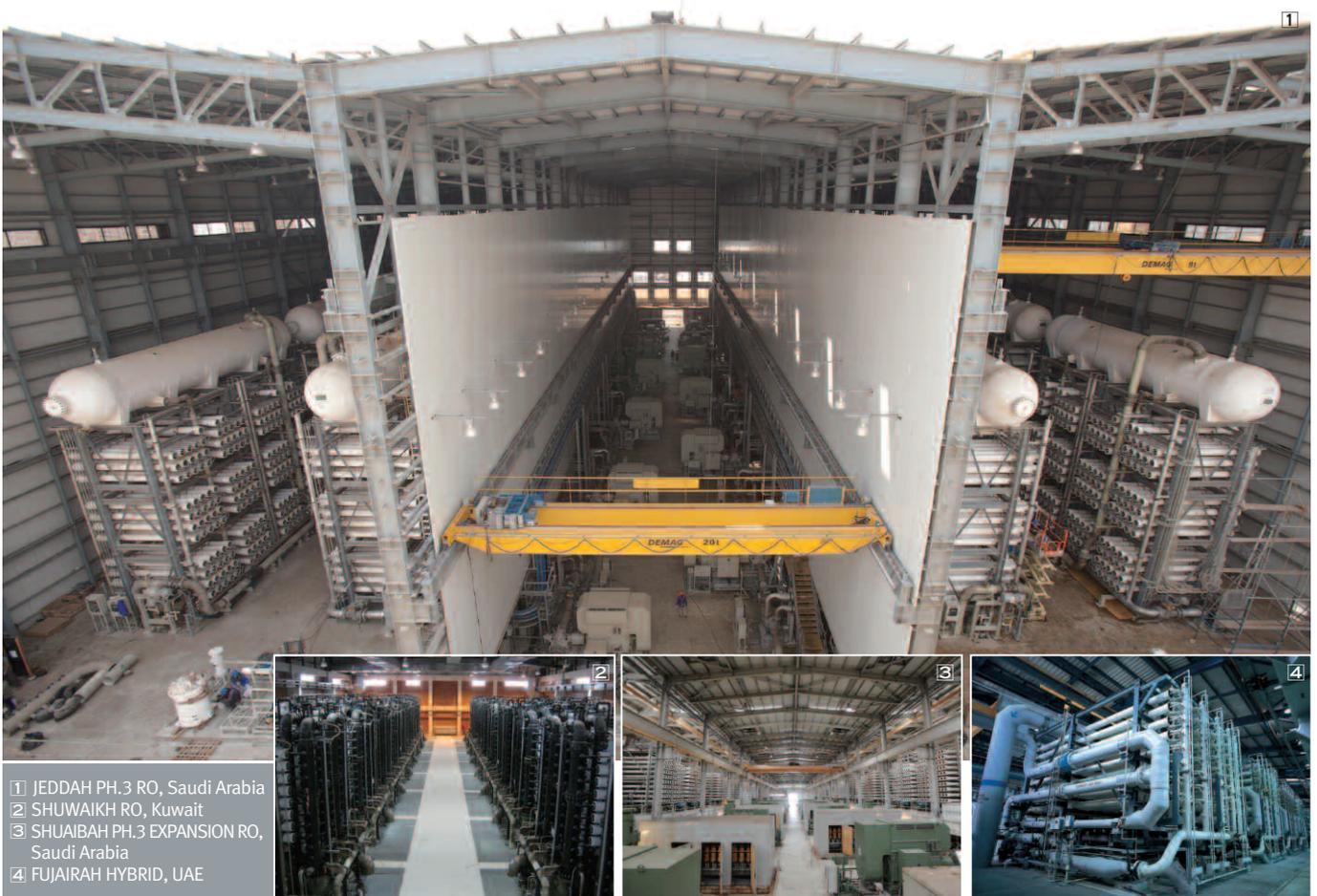
Doosan currently holds a commanding lead in the global desalination market. Since commissioning our first turnkey project in 1989, we have earned a reputation as the leading desalination EPC* contractor by successfully delivering the world's largest and most advanced plants in record time.

In addition to the 410 MIGD** of capacity currently under construction, our desalination plants are producing more than 1,100 MIGD of potable water for daily use by more than 17 million people in communities and industries around the globe.

* Engineering, Procurement and Construction

** Million Imperial Gallons per Day (1 MIGD = 4,546 m³/day)

RO PROCESS



- ① JEDDAH PH.3 RO, Saudi Arabia
- ② SHUWAIKH RO, Kuwait
- ③ SHUAIBAH PH.3 EXPANSION RO, Saudi Arabia
- ④ FUJAIRAH HYBRID, UAE

Reverse Osmosis (RO) is a widely-adopted process in which pressure is applied in order to filter salinity from seawater through membranes as opposed to utilizing steam in thermal processes such as MSF and MED. This allows the RO process to have a broader range of applications beyond seawater desalination.

By actively conducting engineering studies and R&D activities, Doosan maintains an extensive RO track record with its EPC contracts for large-scale RO plant projects since 2007.

As of October 2014, we have successfully completed the Shuaibah Ph.3 Expansion RO plant (33 MIGD) as well as Jeddah Ph.3 RO (52.8 MIGD), which is currently the largest operating RO desalination plant in the Middle East. In addition to carrying out works for the Ras Al Khair Ph.1 hybrid desalination project, whose capacity for the RO plant is 68 MIGD, we are providing O&M services for the Shuwaikh RO plant (30 MIGD) in Kuwait, for which we were the EPC contractor.

MED PROCESS



- 1 YANBU PH.2 EXPANSION MED, Saudi Arabia
- 2 BENGHAZI NORTH MED, Libya
- 3 ZAWIA MED, Libya
- 4 MARAFIQ YANBU MED, Saudi Arabia

With advanced technologies in scale control and material selection, Multi-Effect Distillation (MED) is now playing a major role in large-scale desalination projects in addition to its traditional application for industrial captive use.

MED allows for lower electricity consumption and easier operation at relatively lower costs. The minimum losses of the process contribute to higher production per unit input of heat to the plant.

Contributing to further development of the MED field, Doosan signed on as the EPC contractor in 2011 for the Yanbu Ph.2 Expansion MED project, in Saudi Arabia, which will feature the world's largest MED distiller unit with a production capacity of 15 MIGD. In addition, we won the EPC contract to supply 2 MED units, with a total production capacity of 12 MIGD, which will add to potable and process water production in the Yanbu Industrial City in Saudi Arabia.

MSF PROCESS



Accounting for approximately 80% of the solutions provided by the seawater desalination industry, Multi-Stage Flash (MSF) has been playing a major role in providing fresh water resources in the Middle East. The MSF process generates potable water from seawater using a flashing method, which creates instantaneous discharging of water vapor.

MSF utilizes energy more efficiently by continuously generating flashing of seawater at low steam pressure without additional heat source. Also, its large evaporator unit simplifies the plant layout as well as operation and maintenance.

Doosan is currently leading the MSF desalination field with a global market share of over 40%. Our recent EPC contract in 2010 to build the world's largest desalination plant, Ras Al Khair Ph.1 in Saudi Arabia, features the world's largest evaporator unit production capacity of 20 MIGD and adopts a hybrid method that will produce a total capacity of 228 MIGD (MSF 160 MIGD + RO 68 MIGD).

MAJOR REFERENCES

DESALINATION PLANT PROJECTS

	Project Name	Country	Award	Capacity	Configuration
RO	Fujairah (<i>Hybrid</i>)	UAE	2001	170,470m ³ /d	Gravity-type DMF
	Shuaibah Ph.3 Expansion RO	Saudi Arabia	2007	150,020m ³ /d	Pressurized DMF
	Shuwaikh RO	Kuwait	2008	136,380m ³ /d	DAF+UF
	Jeddah Ph.3 RO	Saudi Arabia	2009	240,030m ³ /d	Gravity-type DMF
	Ras Al Khair Ph.1 (<i>Hybrid</i>)	Saudi Arabia	2010	309,130m ³ /d	DAF+Gravity-type DMF
	Busan Gijang RO	Korea	2011	45,460m ³ /d	DABF+Pressurized DMF+UF
	Escondida Water Supply	Chile	2013	220,000m ³ /d	Pressurized DMF
MED	Benghazi North	Libya	2004	5,000m ³ /d	0.55 MIGD x 2 Units
	Zawia	Libya	2005	5,000m ³ /d	0.55 MIGD x 2 Units
	Yanbu Ph.2 Expansion	Saudi Arabia	2011	68,190m ³ /d	15 MIGD x 1 Unit
	Marafiq Yanbu	Saudi Arabia	2011	54,550m ³ /d	6.07 MIGD x 2 Units
MSF	Farasan Power & Desal MSF Unit	Saudi Arabia	1978	2,270m ³ /d	0.5 MIGD x 1 Unit
	Yanbu Power & Desal MSF Unit	Saudi Arabia	1982	27,280m ³ /d	6 MIGD x 1 Unit
	Assir Ph.1	Saudi Arabia	1985	95,470m ³ /d	5.2 MIGD x 4 Units
	Jebel Ali Station 'E'	UAE	1986	109,100m ³ /d	7 MIGD x 4 Units
	Shuaibah Ph.2	Saudi Arabia	1993	454,600m ³ /d	10 MIGD x 10 Units
	Al Taweelah A2 IWPP	UAE	1998	227,300m ³ /d	12.5 MIGD x 4 Units
	Az Zour South Ph.3	Kuwait	1999	130,920m ³ /d	7.2 MIGD x 4 Units
	Umm Al Nar Station 'B'	UAE	2000	284,130m ³ /d	12.5 MIGD x 5 Units
	Fujairah (<i>Hybrid</i>)	UAE	2001	284,130m ³ /d	12.5 MIGD x 5 Units
	Sabiya Stages 1&2	Kuwait	2004	227,300m ³ /d	12.5 MIGD x 4 Units
	Sohar IWPP	Oman	2004	150,020m ³ /d	8.25 MIGD x 4 Units
	Ras Laffan 'B'	Qatar	2005	272,760m ³ /d	15 MIGD x 4 Units
	Sabiya Stage 3	Kuwait	2005	227,300m ³ /d	12.5 MIGD x 4 Units
	Shuaibah Ph.3 IWPP	Saudi Arabia	2006	895,562m ³ /d	16.42 MIGD x 12 Units
	Shuweihat S2 IWPP	UAE	2008	454,600m ³ /d	16.7 MIGD x 6 Units
	Qurayyah Add-on CAPP MSF Unit	Saudi Arabia	2009	6,000m ³ /d	0.44 MIGD x 3 Units
	Rabigh Power No.2 MSF Unit	Saudi Arabia	2010	9,820m ³ /d	0.72 MIGD x 3 Units
	Ras Al Khair Ph.1 (<i>Hybrid</i>)	Saudi Arabia	2010	727,360m ³ /d	20.37 MIGD x 8 Units
	Yanbu Ph.3	Saudi Arabia	2012	550,000m ³ /d	20.18 MIGD x 6 Units
O&M	Project Name	Country	Award	Capacity	Description
	Dokdo Island RO O&M	Korea	2007	27m ³ /d	Concluded
	Shuwaikh RO O&M	Kuwait	2011	136,380m ³ /d	On-going
	Ras Al Khair O&M	Saudi Arabia	2013	1,036,490m ³ /d	On-going
Others	Busan Gijang RO O&M	Korea	2013	45,460m ³ /d	On-going
	Shuaiba South MSF Rehabilitation	Kuwait	2004	163,660m ³ /d	20% capacity increase
	Shoaibah Pumping Station 'C'	Kuwait	2005	197,750m ³ /d	EPC for the station

OPERATION & MAINTENANCE

Shuwaikh RO / Kuwait



Kuwait's First SWRO Desalination Plant

Challenging conditions including frequent red tides events and high TDS

- Capacity : 30MIGD (136,380m³/day)
- Pretreatment : DAF+UF
- TDS : 45,000 mg/L
- O&M Period : 4 years ('11.10~'15.10)
- Client : Ministry of Electricity & Water

Ras Al Khair Ph.1 / Saudi Arabia



World's Largest Desalination Plant (Hybrid (MSF+RO))

Simultaneous service for both thermal (MSF) and SWRO plants

- Capacity : 228MIGD (1,036,488m³/day)
- Pretreatment : DAF+DMF+Cartridge filters
- TDS : 45,000 mg/L
- O&M Period : 29 months ('13.12~'16.4)
- Client : SWCC

Busan Gijang RO / Korea



Korea's First Large-scale Desalination Plant

Service for the world's largest capacity RO train (8MIGD) with 16-inch membranes

- Capacity : 10MIGD (45,460m³/day)
- Pretreatment : DABF+UF/DABF+DMF+C.F.
- TDS : 34,000 mg/L
- O&M Period : 20 years ('14.7~'34.6)
- Client : Busan Metropolitan City

On top of over 20 years of construction and commissioning experience, Doosan Heavy Industries & Construction also provides O&M service. By providing integrated solutions from EPC to O&M, Doosan offers reduce life-cycle costs and enhanced plant reliability. In addition, Doosan is applying ICT-based Big Data analysis techniques towards improving desalination plant operations, lowering maintenance costs and strengthening engineering capabilities. Through constant monitoring for abnormalities in the plant, we are developing ICT based applications and preventative measures which will improve plant capacity utilization.

DOOSAN ENPURE



The UK-based subsidiary Doosan Enpure is a process engineering company with proven design, technology and project delivery credentials in the water and wastewater sectors.

Doosan's water treatment business provides a full range of services for water and wastewater treatment: engineering, procurement, construction as well as operation and maintenance. Through our accumulated know-how in membrane technologies and EPC experiences around the globe, we offer differentiated solutions to satisfy clients' various needs.

- **Advanced Water Treatment**

- Advanced water treatment solutions including membrane technologies and also in-house technologies such as Dissolved Air Flotation (DAF)

- **Municipal Wastewater Treatment and Reclamation**

- Advanced treatment & reclamation solutions including media and membrane filtration
- Biological Nutrient Removal (BNR) process
- Membrane Bioreactor (MBR) process

- **Industrial Water & Wastewater Treatment**

- Pre-treatment and wastewater treatment systems for RO desalination plants
- Water supply and wastewater treatment systems for power plants
- Produced water treatment solutions for the oil & gas industry
- Zero Liquid Discharge (ZLD) system

MAJOR REFERENCES

WATER & WASTEWATER TREATMENT PLANT PROJECTS

Water Treatment

Project	Country	Process	Completion Year	Capacity
Liuzhou WTW	China	Eng	1997	300 MLD
Ipoh WTW	Malaysia	DAF	1999	275 MLD
Handois WTW	Jersey	UF, RO	1999	20 MLD
Mount Grand WTW	New Zealand	DAF	2000	44 MLD
Seedy Mill WTW	UK	GAC, UF	2003	148.4 MLD
Barrow WTW	UK	Ozone, DAF, DMF, DWWSettling	2004	120 MLD
Maundown WTW	UK	DAF, Filt, GAC	2005	82.4 MLD
Longue Hogue WTW	Guernsey	UF	2008	15 MLD
Boughton WTW	UK	DAF, GAC, MnFilt	2008	37MLD
Marchbank WTW	UK	DAF	2009	62 MLD
Madbury	USA	DAF	2010	13.3 MLD
Homsey WTW	UK	DAF, DMF, GAC	2010	53 MLD
Assynt WTW	UK	UF	2010	20.4 MLD
Croton	USA	Eng (DAF)	2012	1,101 MLD
Bristol Water UV Scheme	UK	UV	2012	165MLD
Ras Al Khair Ph.1	Saudi Arabia	DAF, DMF	2013	1,010 MLD
Midland	USA	DAF	2015	114MLD
Escondida Water Supply	Chile	DAF	2015	300 MLD

Wastewater Treatment

Project	Country	Process	Type	Completion Year	Capacity (FFT) (m ³ /d)
Moa Point	New Zealand	Lam, MBBR, CSP	Sewage	1998	345,600
Pyewipe STC	UK	AD, SD	Sludge	1999	39.7 tDS/d
Great Billing WwTW	UK	ASP, BNR	Sewage	2000	91,000
Falmouth STC	UK	EASP, TertFilt, UV	Sewage	2000	23,587
Bromborough	UK	BAFF, AD	Sewage & Sludge	2000	60,912
Luggage Point WwTW	Australia	ASP, BNR	Sewage	2001	864,000
Quillota WwTW	Chile	IBA, Disinf	Sewage	2002	63,590
Lowestoft WwTW	UK	SLamS, MBBR, MBR, ASP, Past, AD, CHP, DAF	Sewage & Sludge	2002	60,480
Avlon Effluent Treatment	UK	MBBR, DAF	Industrial	2006	2,600
Ringsend WwTW Sludge Extension	Ireland	THP, AD	Sludge	2009	120 tDS/d
Jebel Ali Thermal Sludge Dryer	UAE	SD	Sludge	2009	70.8 tDS/d
Waterford WwTW	Ireland	ASP, Past	Sewage	2009	82,426
Brighton & Hove WwTW	UK	AD, CAS, Lam, BAFF, SD, CHP	Sewage & Sludge	2012	218,160
Bellozane WwTW Phase II	UK	Anaerobic Digestion	Sludge	2015	10.6 tDS/d

DOOSAN HYDRO TECHNOLOGY



- 1 Doosan Hydro Technology Office in Tampa, Florida
- 2 RO train
- 3 UF
- 4 Ion Exchanger



In 2005, Doosan established its US-based subsidiary, Doosan Hydro Technology Inc. (DHT) in Tampa, Florida. DHT's exceptional position as a leading membrane solution provider has helped maintain an impressive portfolio of successful seawater and brackish water Reverse Osmosis (RO) and Nano-Filtration (NF) projects for municipal and industrial clients:

- Over 50 municipal Reverse Osmosis (RO) & Nano-Filtration (NF) plants, including plant retrofits and upgrades
- Over 60 water reclamation & wastewater treatment plants, including Zero Liquid Discharge (ZLD) and packaged aeration
- Over 60 integrated industrial treatment systems for various sectors

For more information on DHT and its services and products, including Pre-Engineered Systems, visit <http://www.doosanhydro.com> today.

MAJOR REFERENCES

MEMBRANE SOLUTION PROJECTS

Municipality

Project	Country	Process	Type	Completion	Capacity
Chino II Desalter Expansion	USA	DMF- BWRO	EP	2011	5.0 MIGD
Coral Springs BWRO WTP	USA	BWRO	EP	2011	5.625 MIGD
Ground Water Replenishment System (GWRs) Project	USA	BWRO	EP	Ongoing - (Expected2014)	4.163 MIGD
North Springs Improvement District-RO WT	USA	BWRO	EP	Ongoing - (Expected2014)	5.625 MIGD
Clearwater Water Treatment Plant No.2- Contract 4: RO Plant Site Expansion Pjt.	USA	BWRO	EP	Ongoing - (Expected2014)	4.372 MIGD

Waste Water and Reuse

Project	Country	Process	Type	Completion	Capacity
Lake City	USA	STP	EP	2001	0.0412 MIGD
GE Engine Services	China	STP	EP	2001	0.021 MIGD
Costa Azul, LNG Plant	Mexico	STP	EP	2006	0.004 MIGD
SCVWD - SouthBay Advance Recycled Water Treatment Facility (Santa Clara)	USA	BWRO	EP	Ongoing - (Expected2014)	6.661 MIGD
Palm Coast _ Water Treatment Plant No.2- Concentrate Zero Liquid Discharge	USA	WWT, ZLD	EP	Ongoing - (Expected2014)	1.499 MIGD
Western Corridor, Luggage Point AWT	Australia	BWRO	EP	2010	15.40 MIGD

Industrial

Project	Country	Process	Type	Completion	Capacity
Mulberry Phosphate Pond	USA	BWRO	EP	2005	0.15 MIGD
Ecopetrol Advanced Water Treatment Plant	Colombia	UF,BWRO	EP	2013	UF:8.33MIGD; BWRO:4.91MIGD
Ammonia and Urea Plants ,Mary	Turkmenistan	WTP, BWRO,DM	EP	Ongoing - (Expected2014)	16.67 MIGD
Ras Al Khair	Saudi Arabia	WWT,Chemicaldosing	EP	Ongoing - (Expected2014)	7.85 MIGD
RPLC (Refiner.a Puerto La Cruz) Deep Conversion Project - Utility Units- WWT	Venezuela	WWT, MBR UFmodules, ROmembraneselements	EP	Ongoing - (Expected2015)	UF:1.182 MIGD
Karbala Refinery Project	Iraq	WWT (API Separator, DAF, MBR, RO)	EP	Ongoing - (Expected2016)	3.6MIGD

Power

Project	Country	Process	Type	Completion	Capacity
Chihuahua Combined Cycle Power Plant	Mexico	WTP, BWRO,DW, WWTP,ZLD	EP	2001	0.104 MIGD
Canyon Power Plant	USA	BWRO	EP	2011	0.417 MIGD
Bayonne Power Plant	USA	UF,BWRO,EDI	EP	2012	1. MIGD
Mong Doung II - WT + WWTP	Vietnam	WT, BWRO,DM, WWTP	EP	Ongoing - (Expected2014)	1.0 MIGDTampa
Shoiba II Combined Cycle Power Plant	Saudi Arabia	SWRO	EP	Ongoing - (Expected2014)	0.71 MIGD
Electric Polk Power Station-Reclaimed Water Pjt (TECO RTP)	USA	BWRO	EP	Ongoing - (Expected2014)	4.0 MIGD

Desalination

Project	Country	Process	Type	Completion	Capacity
Taba & Noeiba Desalination Plant	Egypt	DMF, SWRO	EP	2002	1.1 MIGD
Ghana SWRO	Ghana	SWRO	EP	TBD	4.167 MIGD
Minera Milpo Cerro Lindo	Peru	DMF, SWRO	EP	2012	0.9 MIGD
Desalcott Seawater Desalination Expansion Project	Trinidad	SWRO	EP	2014	8.3 MIGD

Military

Project	Country	Process	Type	Completion	Capacity
US Navy- Guantanamo Bay Containerized RO System	Cuba (USAOverseasTerritory)	SWRO	EP	2003	0.05 MIGD
US Embassy Baghdad	Iraq (USATerritory)	UF, BWRO	EP	2010	UF/RO 0.1 MIGD
Potable Water Plant Modernization, U.S. Navy Support Facility, Diego Garcia	Diego Garcia Island (British(OverseasTerritory in theIndian Ocean)	DMF, NF UV	EP	Ongoing- Expected2015	1.069 MIGD
P1044 Camp Pendleton Advanced Water Treatment Plant - RO System	USA	RO	EP	Ongoing-Expected2014	1.499 MIGD

RESEARCH & DEVELOPMENT



1



2



3



4



5



6

- 1 Zero Liquid Discharge (ZLD)
- 2 High-efficiency SWRO System
- 3 Low-energy Membrane Bioreactor (MBR)

- 4 Once-Through Long-Tube pilot Plant
- 5 Damman R&D Center
- 6 Birmingham R&D Center

Doosan actively conducts its water-related research and development activities at its four dedicated R&D centers in Seoul and Changwon, Korea; Dammam, KSA; and Birmingham, UK. The main goal of our R&D centers is to create and launch needs-driven water systems that will introduce brand-new solutions to the water market. Main R&D topics include:

- Eco-friendly process including ZLD systems
- High-efficiency water reuse technologies
- Concentrated Solar Power (CSP) Desalination
- Doosan Fiber Filter system
- Low-energy MBR technologies
- Sludge treatment technologies
- Technologies for optimal operation & maintenance of desalination processes
- New Bubble Generation Dissolved Air Flotation (NBG-DAF)

MANUFACTURING FACILITIES



Changwon Plant

Doosan's world-class manufacturing capabilities and cost competitiveness come from our two manufacturing plants located in Changwon, Korea and the Dung Quat Economic Zone in Vietnam.

Our Changwon plant on Korea's southeastern coast is home to 15 specialized shops that enable us to manage every step of production while ensuring the highest level of quality. Also, Doosan VINA in Vietnam, established in February 2007 on a site of 110 hectares of land, has successfully integrated the competitive local labor force of Vietnam with the advanced technologies of Doosan.



Doosan VINA

REFERENCES

Major Referencess



Fujairah Hybrid
World's First Hybrid Desalination Plant

- Project : Fujairah Hybrid
- Process : MSF+RO (Hybrid)
- Capacity : 100MIGD (454,600m³/d)
- Award & Country : 2001, UAE



Jeddah Ph.3 RO
Largest RO Plant in the Middle East

- Project : Jeddah Ph.3 RO
- Process : RO
- Capacity : 52.8MIGD (240,030m³/d)
- Award & Country : 2009, SAUDI ARABIA



Ras Al Khair Ph.1
World's Largest Desalination Plant

- Project : Ras Al Khair Ph.1
- Process : MSF+RO (Hybrid)
- Capacity : 228MIGD (1,036,490m³/d)
- Award & Country : 2010, SAUDI ARABIA



- Project : Assir Ph.1
- Process : MSF
- Capacity : 21MIGD (95,470m³/d)
- Award & Country : 1985, SAUDI ARABIA



- Project : Jebel Ali Station 'E'
- Process : MSF
- Capacity : 24MIGD (109,100m³/d)
- Award & Country : 1986, UAE



- Project : Shuaibah Ph.2
- Process : MSF
- Capacity : 100MIGD (454,600m³/d)
- Award & Country : 1993, SAUDI ARABIA



- Project : Al Taweelah A2 IWPP
- Process : MSF
- Capacity : 50MIGD (227,300m³/d)
- Award & Country : 1998, UAE



- Project : Sabiya Stages 1 & 2
- Process : MSF
- Capacity : 50MIGD (227,300m³/d)
- Award & Country : 2004, KUWAIT



- Project : Benghazi North MED
- Process : MED (Captive)
- Capacity : 1.1MIGD (5,000m³/d)
- Award & Country : 2004, LIBYA

Modern water projects are incredibly large and complex. It takes a huge amount of experience and expertise spanning a broad range of technical disciplines to engineer, manufacture, and build plants capable of efficiently and reliably meeting not only today's needs, but also tomorrow's. At Doosan, we have strategically cultivated our capabilities over the past five decades as we have transformed ourselves into a full-service EPC contractor capable of taking on the world's largest and most challenging water projects.



- Busan Gijang RO**
Korea's First Large-scale Desalination Plant
- Project : Gijang RO
 - Process : RO
 - Capacity : 10MIGD (45,460m³/d)
 - Award & Country : 2011, KOREA



- Yanbu Ph.2 Expansion MED**
World's Largest MED Distiller
- Project : Yanbu Ph.2 Expansion MED
 - Process : MED
 - Capacity : 15MIGD (68,190m³/d)
 - Award & Country : 2011, SAUDI ARABIA



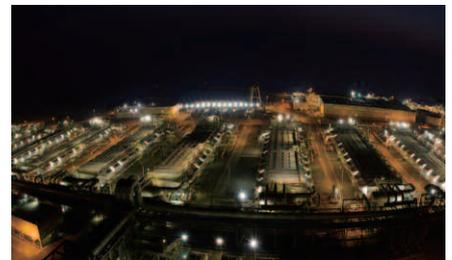
- Escondida Water Supply**
Largest Desalination Plant in South America
- Project : Escondida Water Supply
 - Process : RO
 - Capacity : 47.5 MIGD (215,935m³/d)
 - Award & Country : 2013, CHILE



- Project : Ras Laffan 'B'
- Process : MSF
 - Capacity : 60MIGD (272,760m³/d)
 - Award & Country : 2005, QATAR



- Project : Zawia MED
- Process : MED (Captive)
 - Capacity : 1.1MIGD (5,000m³/d)
 - Award & Country : 2005, LIBYA



- Project : Shuaibah Ph.3 IWPP
- Process : MSF
 - Capacity : 197MIGD (895,562m³/d)
 - Award & Country : 2006, SAUDI ARABIA



- Project : Shuaibah Ph.3 Expansion RO
- Process : RO
 - Capacity : 33MIGD (150,020m³/d)
 - Award & Country : 2007, SAUDI ARABIA

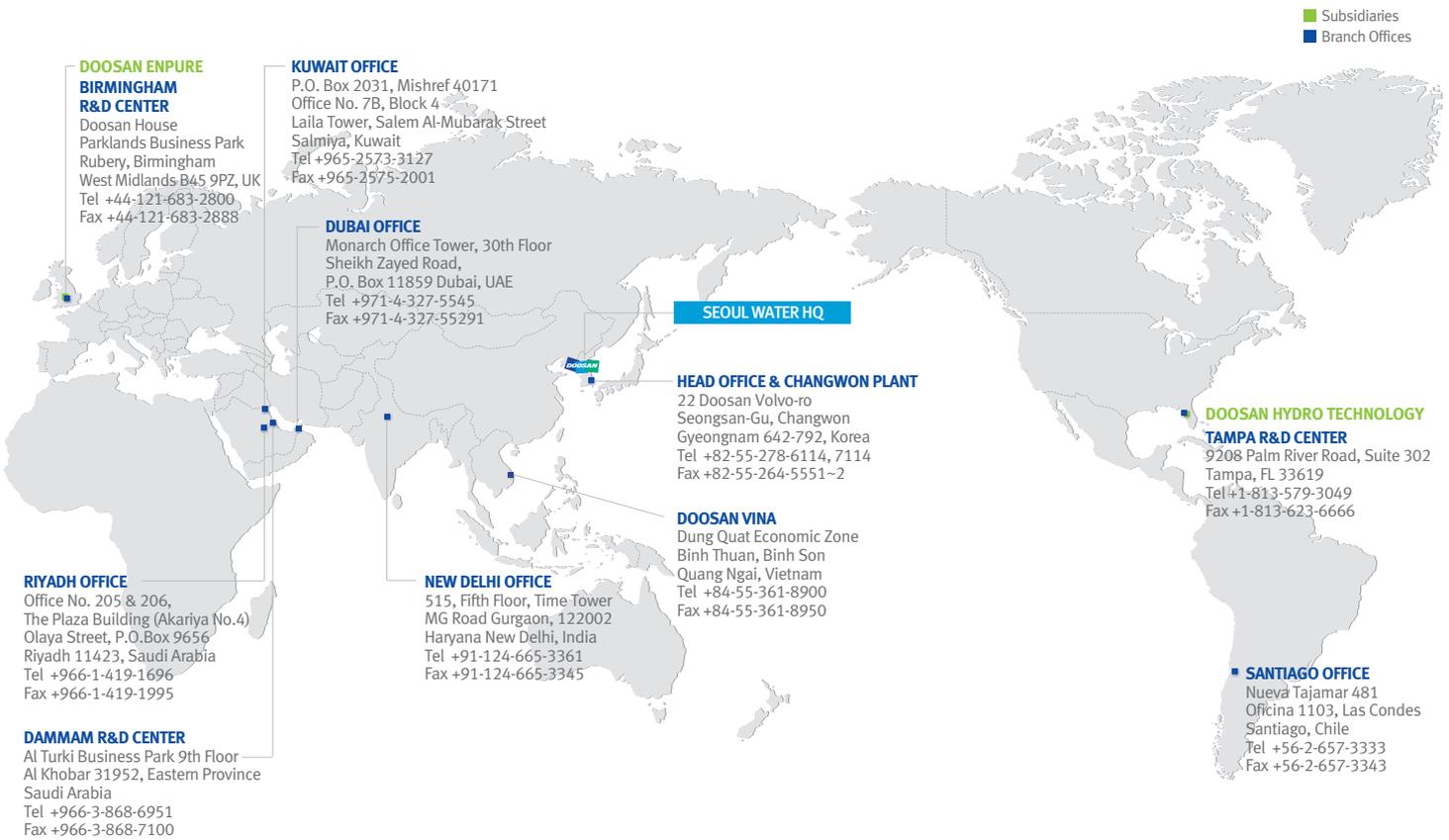


- Project : Marafiq Yanbu MED
- Process : MED
 - Capacity : 12MIGD (54,550m³/d)
 - Award & Country : 2011, SAUDI ARABIA



- Project : Yanbu Ph.3
- Process : MSF
 - Capacity : 121MIGD (550,000m³/d)
 - Award & Country : 2012, SAUDI ARABIA

WATER NETWORK



CORPORATE NETWORK

Overseas Subsidiaries

DOOSAN ENPURE
 Birmingham, UK

DOOSAN HYDRO TECHNOLOGY
 Tampa, USA

DOOSAN POWER SYSTEMS
 Crawley, UK

DOOSAN POWER SYSTEMS INDIA
 Haryana, India

DOOSAN POWER SYSTEMS (EUROPE)
 Ratingen, Germany

DOOSAN POWER SYSTEMS (NORTH AMERICA)
 Atlanta, USA

DOOSAN POWER SYSTEMS (LATIN AMERICA)
 Sao Paulo, Brazil

DOOSAN BOBCKOCK
 Renfrew, UK

ŠKODA POWER
 Plzen, Czech

DOOSAN CHENNAI WORKS
 Chennai, India

DOOSAN HF CONTROLS
 Carrollton, USA

DOOSAN IMGB
 Bucharest, Romania

DOOSAN ENGINEERING & SERVICES
 Montvale, USA

DOOSAN VINA
 Dung Quat, Vietnam

DOOSAN VINA HAIPHONG
 Haiphong, Vietnam

HANJUNG POWER
 NCD, Papua New Guinea

DOOSAN LENTJES
 Ratingen, Germany

Overseas Branches

AMERICAS

SANTIAGO OFFICE
 Santiago, Chile

DOOSAN HEAVY INDUSTRIES AMERICA
 New Jersey, USA

PITTSBURGH OFFICE
 Cranberry, USA

SCHENECTADY OFFICE
 Schenectady, USA

NEWINGTON OFFICE
 Newington, USA

TAMPA R&D CENTER
 Tampa, USA

ASIA

BEIJING OFFICE
 Beijing, China

NEW DELHI OFFICE
 New Delhi, India

DOOSAN HEAVY INDUSTRIES JAPAN
 Tokyo, Japan

BANGKOK OFFICE
 Bangkok, Thailand

HANOI OFFICE
 Hanoi, Vietnam

JAKARTA OFFICE
 Jakarta, Indonesia

MUMBAI OFFICE
 Mumbai, India

SHANGHAI OFFICE
 Shanghai, China

TAIPEI OFFICE
 Taipei, Taiwan, R.O.C.

EUROPE

FRANKFURT OFFICE
 Frankfurt, Germany

BIRMINGHAM R&D CENTER
 Birmingham, UK

MIDDLE EAST & AFRICA

RIYADH OFFICE
 Riyadh, Saudi Arabia

KUWAIT OFFICE
 Salmiya, Kuwait

DUBAI OFFICE
 Dubai, UAE

ABU DHABI OFFICE
 Abu Dhabi, UAE

MIDDLE EAST OPERATIONS CENTER
 Dubai, UAE

NORTH AFRICA OFFICE
 New Cairo, Egypt

DAMMAM R&D CENTER
 Al Khobar, KSA

[as of May 2015, 12th Edition]



Doosan Heavy Industries & Construction

SEOUL OFFICE
 Mail Code 137-920
 465 Gangnam-daero, Seocho-Gu, Seoul Korea
 Tel. +82-2-513-6114 Fax. +82-2-513-6200

www.doosanheavy.com

HEAD OFFICE AND CHANGWON PLANT
 Mail Code 642-792 22 DoosanVolvo-ro,
 Seongsan-Gu, Changwon, Gyeongnam Korea
 Tel. +82-55-278-6114, 7114 Fax. +82-55-264-5551~2