



MOBILE WATER

OIL & GAS

MUNICIPAL

DESALINATION

POWER

MINING & RESOURCES

UTILITIES MANAGEMENT



Overview

- SHL Global Investments
- Investment Board
- New Water Corporation
- The Team Behind the Success
- Corporate Structure
- Integrated Global Business
- Global Success
- Certificates & Registration

Mobile Water Technology

Industry Solutions

- Oil and Gas
- Mining and Resources
- Desalination
- Power
- Municipal

Utilities Management

Wastewater

Project Profiles



SHL Global Investments is a leading investor operating in the global growth markets across Asia, Africa, Latin America and the Middle East. Since inception, over 21 years ago; **SHL** completed the acquisition of industry recognised brands including **Septech**, **New Water Corporation (NWC)** and a number of specialised engineering, manufacturing and technological companies across the G.C.C, thus creating the deepest benchmark of engineering experience across competitive global growth markets.

- Employing over 500 people and counting; the group has offices across 10 different countries and 7 manufacturing facilities spread across 3 regional hubs in Australia, Spain and the United Arab Emirates.
- Local presence across these markets provides the group with unmatched expertise, know-how, proprietary transactional access and the ability to grow partner businesses across borders.
- **SHL Global Investment's** industry leading shareholders and management teams currently manage sector and in-country value (ICV) specific investments across: -

- Manufacturing
- Water Infrastructure
- Engineering
- Oil and Gas

Employing over 500 people, the Group has 10 country offices and 7 manufacturing facilities spread across 3 regional hubs in Australia, Spain and the United Arab Emirates.

SHL Global Investments has set the standard for infrastructure through its investment into a regionally built infrastructure wastewater business which started in 1997 and has: -

- Over 21 years of proven track records for delivering projects on time and within budget
- Market leader in innovative water solutions
- A wealth of capabilities to take on projects of almost any calibre
- End to end bespoke turnkey solutions to meet individual project needs from design, implementation through to management
- Outstanding team drawn from a global pool of talent
- Highest environmental stakeholder engagement and corporate governance standards
- Industry compliant, leading, industry recognised certifications and registrations
- The group has supported best in class organizations focused on entrepreneurship, community engagement & impact on economic landscape.

Expanding on this investment, **SHL Global Investments** further invested in **New Water Corporation (NWC)** and its world class recognised team to cement its position as one of the most advanced integrated water and wastewater engineering companies globally.

New Water Corporation currently holds some of the most advanced Intellectual Property available in the market. Through this investment, the formation of **New Water Corporation** was integrated into the portfolio of **SHL** and a globally recognised team has emerged today, capable of handling a wider range of the world's challenges in the water industry globally.





David Heffernan, Group Chief Executive Officer, Septech

David Heffernan is the Co-founder and Group Chief Executive Officer of Septech Holdings Limited. David completed his studies in Melbourne, Australia, securing qualification with the highest level of accreditation in both building studies and business management. In addition, he is an Alumni graduate at the prestigious London Business School. With over 3 decades of global business and operational experience across diverse arrays of industries: including, but not limited to water, wastewater, infrastructure manufacturing, engineering and construction and property development. Septech Group is widely recognised as a pioneer of water and water related infrastructure with over 10 offices, including 3 regional hubs in Australia, Indonesia, Mexico, Spain, Saudi Arabia and United Arab Emirates. Mr. Heffernan has contributed his experience of investing and developing commercial, residential and prestigious Marina waterfront development properties and led the group's investment strategy, resulting in some of the most notable developments across the Middle East and Australia over the last two decades.

David holds Director positions for all the Groups' operating subsidiaries and investment companies in Australia, Europe, Indonesia, across the Middle East and Mexico, as well as the position of chairman for Heffernan Investments Inc. In 2008, David was awarded 'Australian Business Man of the Year' from the Australian Business Council and led the company to its 'Engineering Company of the Year' award in 2010 and more recently the company has also won the GCC Oil and Gas project of the year in 2015. As a dedicated member of the Young Presidents Organization for over 18 years in both UAE and Australia, David actively contributes to the development of international business practices, standards and emerging talent through the YPO Mentoring programme.

Sharon Bartlett, Group Chief Operating Officer, Septech

Sharon Bartlett holds dual degrees in Marketing and Psychology earned with Honors at Chisholm Institute of technology. In 1997, she co-founded and launched Septech. For the past 21 years, Bartlett has been responsible for the diversification of the company's portfolio which today, caters to four submarkets: water, wastewater, marina and precast infrastructure. Bartlett has steered the company towards partnering with the leaders of international business. Committed to the growth of the economy and industry of the Middle East, Bartlett is an active member of the Young Presidents Organization Emirates Chapter.

Ashruf Kamel, General Manager - MENA, New Water Corporation

Ashruf Kamel holds a double degree with honors in both economics and management in Australia. He is internationally experienced in the generation, setup and establishment of utilities infrastructure companies. Ashruf moved to the Middle East nine years ago to launch a multinational manufacturing company which in June 2006 was bought out by Septech. Acquired as part of the sale, Ashruf moved into the company and today serves as General Manager for NWC MENA. Ashruf is responsible for Septech's strategic growth throughout the MENASA region including regional management, corporate governance and transparency.

Fawad Tariq Khan, Board Director & General Manager, SHUAA Capital

Fawad joined SHUAA Capital as its General Manager in May 2017 and has served on the Board of Directors since March 2017. His primary mandate is to spearhead the Group's transformation and growth initiatives, and ensure a sustained and profitable path as part of the company's evolution. Fawad joined from Abu Dhabi Financial Group, the controlling shareholder of SHUAA Capital, where he led the investments team focusing on devising and implementing alternative investment strategies globally. Fawad sits as Director on the Boards of key SHUAA Capital subsidiaries and also serves on the Board of Directors of Northacre, a leading developer of high-end luxury residential schemes in London. Fawad started his career with Deloitte based out of London before joining the Dubai office where he helped set up its Middle East debt advisory practice. He holds an MSc in Business Studies from University College Dublin and a BSc in Computer Science from University College Cork.

Natasha Hannoun, Board Member, SHUAA Capital

Natasha is Director at Integrated Alternative Finance and has broad experience across a range of advisory services and sectors including education, logistics, energy and real estate. She started her career in the M&A and debt advisory team at Deloitte, where her transaction experience included acquisition financing for shipping assets, sale and leaseback structures, corporate debt issues including a US\$200m hybrid Sukuk offering in 2013. Natasha holds an MSc in Physics and Mathematics from the University of Bristol in the UK.





NWC which has been operating in the APAC, Europe and the Middle East since 1997 has a proven track record for executing projects within these regions and is primarily focused on executing a range of end to end solutions through new and existing clients, and is focused on the design, engineering, procurement, manufacturing, installation, commissioning, operations and systems integration of products and services in a number of highly specialised industrial sectors. These include Mining and Resources, Power Generation and the Oil and Gas sector. The group currently operates in Asia, Australia, Europe and Middle East providing turn-key solutions in the following industries using proprietary water and wastewater technology: -

- **Oil and Gas,**
- **Mining and Resources,**
- **Desalination,**
- **Municipal and Power industries.**

Having a primary focus on addressing the world's water shortages and related infrastructure requirements in developed and emerging markets; **NWC** is poised to provide a number of specialised solutions to both primary and secondary markets. **NWC** draws upon the global pool of resources operating in Asia, Australia, Europe and the Middle East to offer solutions in the following sectors: -

- **Water/ Wastewater**
- **Mobile Water**
- **Precast**
- **Marine**
- **Specialised infrastructure pipes**

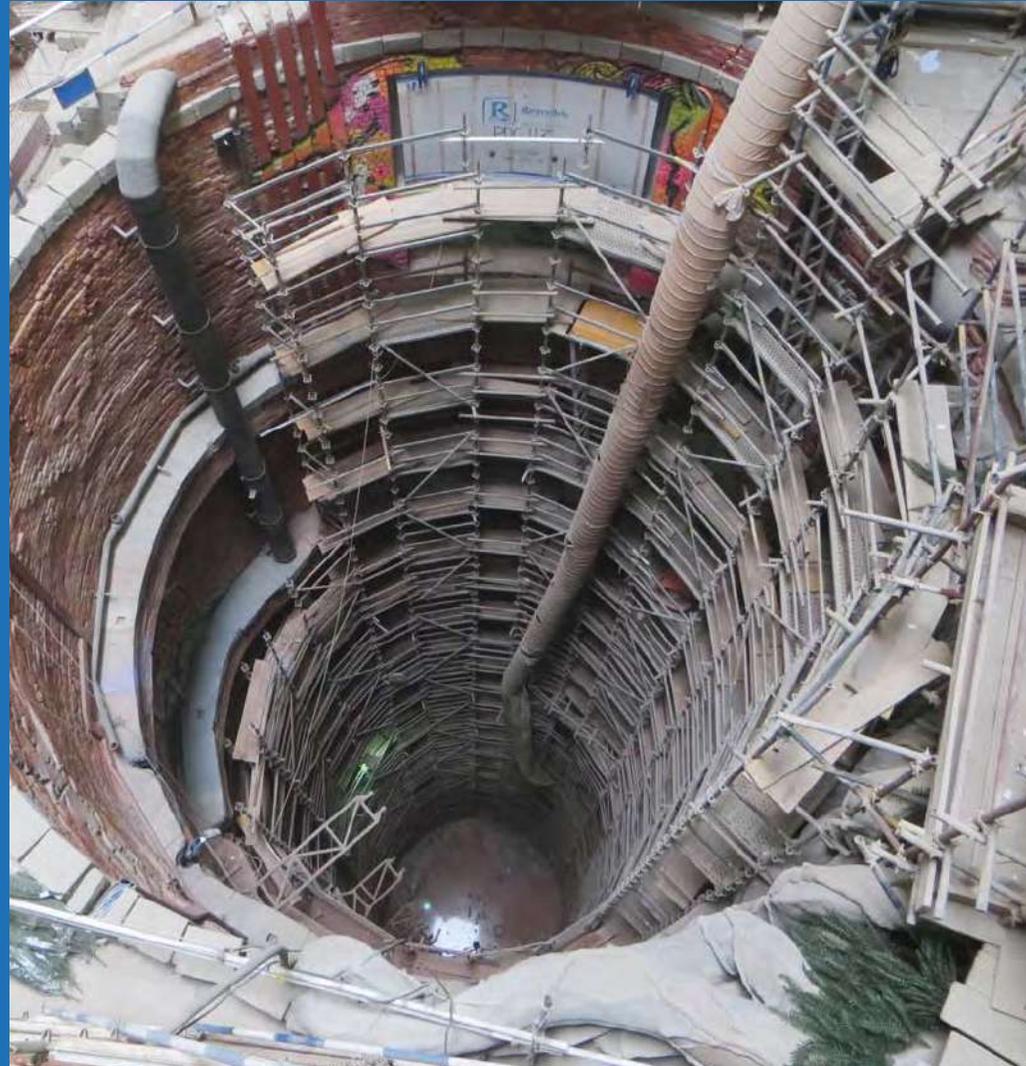
With over a decade of successful operations and project execution; **NWC** partnered with the Middle East region's largest and most prominent Investment Bank; Shuaa Capital. Attracted by **NWC's** rapid growth and value creation across all business units; **Shuaa Capital** decided to take a strategic investment in **NWC** in 2008. The successful partnership has allowed **NWC** to vigorously explore global opportunities in the water and wastewater markets and make strategic investments in countries that offer future growth potential. **NWC's** global footprint demonstrates the ability to provide solutions in almost every industry sector whilst also ensuring that the countries suffering the highest water scarcity and water stress concerns are able to call upon the resources of the group for almost any application. The group's successful track record to date has been attributed to: -

- Ability to provide highly advanced technological solutions to manage water and wastewater; catering to a range of industries.
- The company has established its presence as a market leader in a market that requires specialised capabilities with a proven track record.
- Support of leading infrastructure and financial specialists providing directional support.
- The quality of our outstanding people who have been drawn from a global pool of talent & the vision of its founders.
- **New Water Corporation** strives to excel and maintain its position as a leading water and related infrastructure company through a highly focused approach.

New Water Corporation introduces an entire management solution coupled with an intelligent operating platform to ensure clients are able to actively review and monitor plants located across their project. **NWC** was established to introduce the specialised engineering capabilities needed within Mining and Resources, Petroleum and Oil & Gas sectors of the Australian marketplace. The future success of New Water Corporation is driven by the committed and combined vision of its founders, allowing the group to further cement its position as the market leader in innovative water solutions.

Core Capabilities

- Reverse Osmosis, Nanofiltration, Ultrafiltration and Microfiltration membrane systems for removing suspended and dissolved solids from fresh water, waste water and sea water;
- Electrodeionization (EDI) for producing ultrapure water without chemical regenerants;
- Electrodialysis reversal (EDR), widely used to treat water supplies which are challenging for other technologies to process and where water recovery up to 95%;
- Mobile water treatment solutions for short-term and emergency use including deionization, filtration, Reverse Osmosis and EDI trailers;
- Produced water treatment solutions: for the management, re-use and discharge of produced water on upstream sites;
- Service agreements to Design, Build, Own, Operate and Maintain water treatment systems, allowing customers to focus their resources on their key operations;
- Water treatment chemicals and application engineering for raw and wastewater clarification, process water and industrial boiler and cooling water;
- Process chemicals and additives for improved performance in refining applications.





The Team Behind the Success

The **NWC** team is comprised of both an investment and management team which manage the companies' regional offices and day-to-day management operations. With a combined talent pool of over 100 years of experience, **NWC** introduces to its clients the unmatched experience profile in engineering, project and management contracting, quality and control, health and safety and operations.

NWC's effectiveness depends as much on our local roots as our technological knowledge and expertise. Our company is organised to keep us close to our public authority and industrial clients. To that end, we set up permanent operations in our service territories and adapt to local requirements, converting them into opportunities for innovation and development. **NWC** has developed the necessary tools to assess its sustainable development performance both at each individual site as well as for the company as a whole. An assessment is made of the social and environmental results. This enables corporate social responsibility agencies to assess the work that has been carried out.

In the area of sustainable development **NWC** strives to deliver on the goals it has set itself and those decided contractually with its clients to best meet their demands. Steps have been taken to make improvements at all of **NWC's** operating sites in order to achieve this. Results are measured and audited by independent experts and are used to continuously improve operational activities. Sustainable water management requires the participation and commitment of all stakeholders, especially citizens. Hence our involvement, as a local operator, in the life of municipalities, by listening to their concerns and fostering clear, transparent dialogue with all stakeholders. In the areas we serve, this allows us to provide the information and advice necessary for everyone to make choices in support of sustainable water management.

Corporate Management Team



David Heffernan
Group Chief Executive
Officer



Sharon Bartlett
Group Chief
Operating Officer



Ryan Fielding
Commercial Manager



Michelle Bartlett
Group Operations
Manager



Ashruf Kamel
General Manager
- Mena



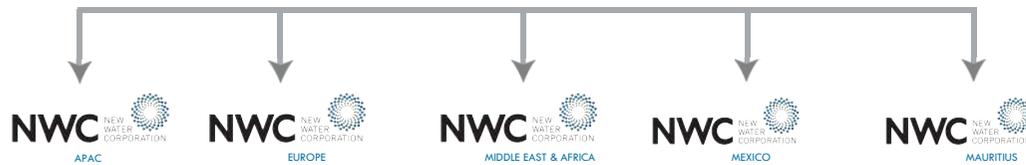
Syed Mehdi
Finance Manager



Paul Hutton
Execution & Commissioning
Manager



WATER AND WASTEWATER

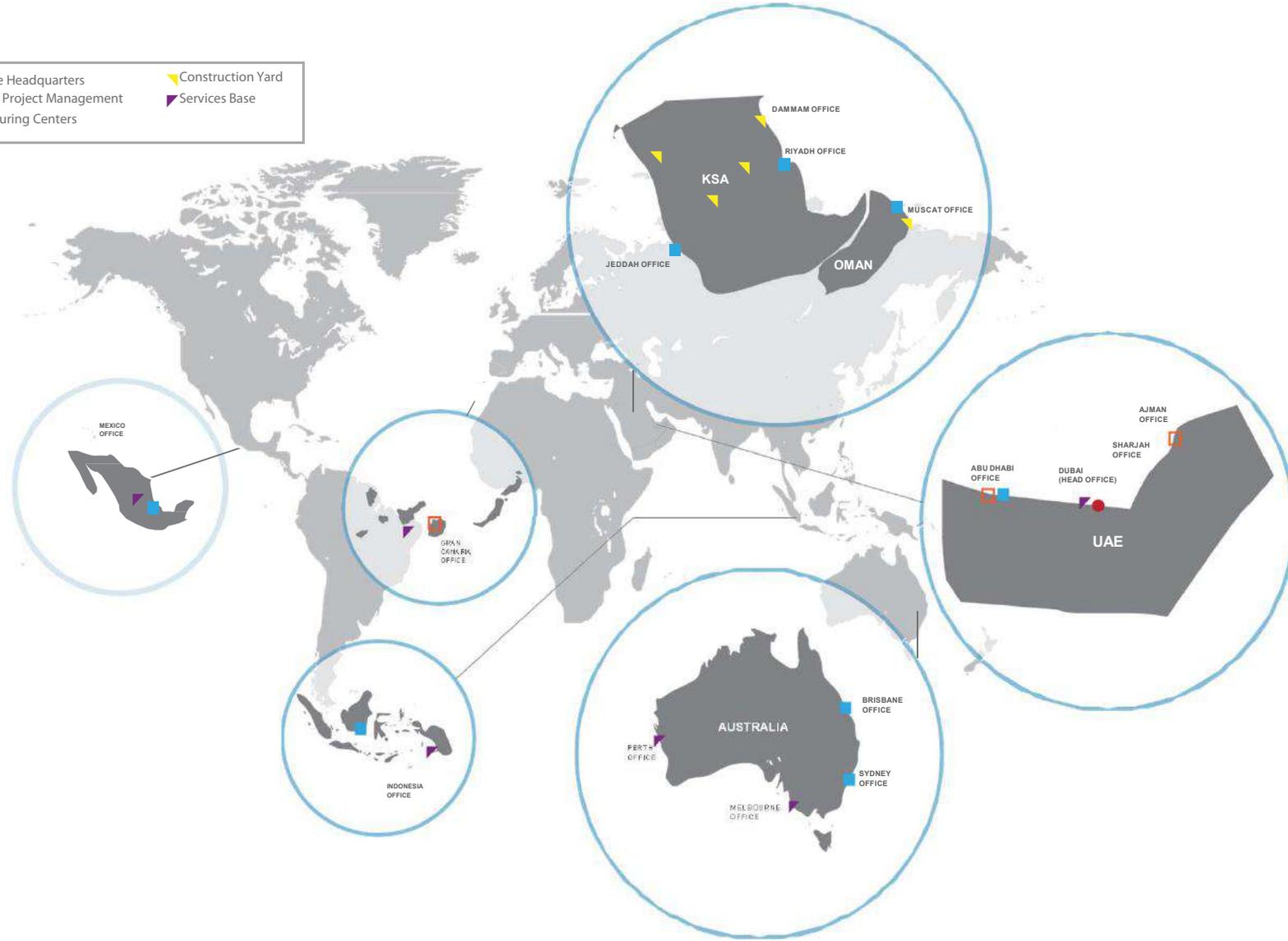


INFRASTRUCTURE AND MARINA





- Corporate Headquarters
- Sales and Project Management
- Manufacturing Centers
- ▲ Construction Yard
- ▼ Services Base



Global Success

Signature Water Projects

Atlantis,
The Palm,
Dubai, UAE

Al Ghubrah
5MIGD Mobile
Water Plant
Muscat, Oman

Oxy Oil Field
Mukhaizna,
Oman

Saadiyat Island
Abu Dhabi,
UAE

The Tiger
Woods
Dubai, UAE

Iberdrola
Power Plant
Doha, Qatar

Domestic Solid
Waste
Management
Center
Doha, Qatar

Largest provider of mobile
rental systems in the world

Over **1,000,000**
cubic metres of treated
water produced

Use of sustainable
programme for lowest
market energy consumption

Successfully built over **200**
Wastewater Treatment
Facilities



Signature Wastewater Projects

Kalba , Sharjah
Municipality
Capitox
STP Plant
Sharjah, UAE

Yas Island
MBBR STP Plant
Abu Dhabi,
UAE

Al Reef Villas
MBBR STP Plant
Abu Dhabi,
UAE

Prince Mohd
University,
MBBR Plant,
KSA

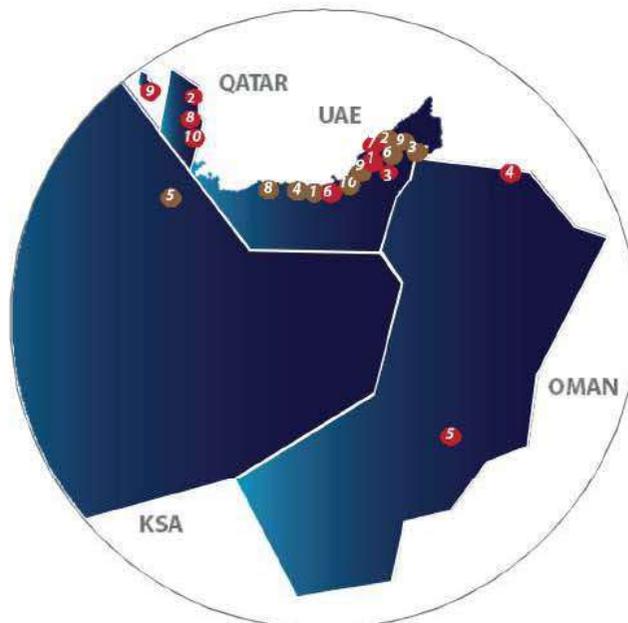
Sharjah Expo
Centre
UTB Plant
Sharjah, UAE

Sir Bani Yas
Island
UTB Plant
Abu Dhabi,
UAE

Al Maha Desert
Resort
UTB Plant
Dubai, UAE



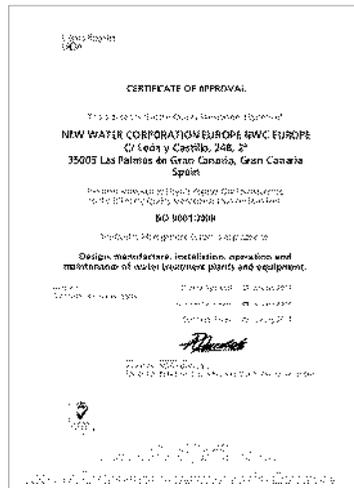
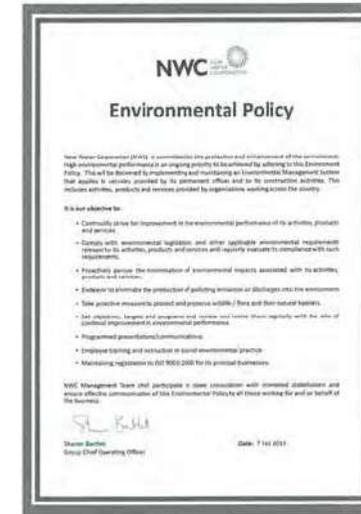
GCC Water and Wastewater Projects Map



- 1 990,000m³/day**
Pre-Treatment Plant
Atlantis
Dubai, UAE
Sand filters, heat exchangers, pumps, strainers, ozone generating equipment, compressors, chemical dosing, foam fractionators, UV/C pipe systems ranging from 1" through to 24", valves and fittings.
- 2 90,000m³/day**
Pre-Treatment Plant
ASR Schlumberger
Qatar
Pre-treatment media filtration system, seawater reverse osmosis desalination system, energy recovery, piping support network, design engineering, manufacturing and commissioning.
- 3 74,400m³/day**
Pre-Treatment Plant
Pearl Dive Pool
Dubai, UAE
Construction of an indoor scuba diving facilities including design, fabrication, delivery, factory testing, site assembly, installation, site testing, commissioning of the aquatic system for the pearl diving pool.
- 4 22,700m³/day**
SWRO Plant
Al Ghubrah Mobile Water Plant
Muscat, Oman
Sea Water System, Media Filters, Chemical Dosing Units, Sea Water RO plant
- 5 12,000m³/day**
SWRO Plant
Occidental Petroleum
Mukhaizna, Oman
Sea Water System, Media Filters, Chemical Dosing Units, Sea Water RO plant
- 6 10,000m³/day**
SWRO Plant
Saadiyat Island
Abu Dhabi, UAE
Sea Water System, Media Filters, Chemical Dosing Units, Sea Water RO plant
- 7 5,000m³/day**
BWRO Plant
The Tiger Woods
Dubai, UAE
Low velocity Filtration Systems, Chemical Dosing Units, BWRO plant with fouling resistant membranes
- 8 4,500m³/day**
BWRO Plant
Iberdrola Power Plant
Doha, Qatar
Brackish Water Systems, Media Filters, Chemical Dosing Units, Brackish RO plant
- 9 2,250m³/day**
BWRO Plant
Tatweer Petroleum Awali
Oil Field, Bahrain
Brackish Water Systems, Media Filters, Chemical Dosing Units, Brackish RO plant
- 10 720m³/day**
BWRO + DM Plant
(DSWMC) Domestic Solid Waste Management Center
Doha, Qatar
1 No. Mobile Brackish Water RO Unit and
1 No. Demineralisation Unit

- 1 3,000m³/day**
STP by MBBR Process
Yas Island
Abu Dhabi, UAE
STP with Moving Bed Biological Reactor (MBBR) producing water suitable for irrigation purposes
- 2 1,100m³/day**
STP by EAP Process
Sharjah Municipality, Kalba
Sharjah, UAE
Capitox Extended Aeration Sewage Treatment Plant
- 3 1,100m³/day**
STP by SBR Process
Sharjah Municipality, Khorfakkan
Sharjah, UAE
Sequencing Batch Reactor Plant
- 4 1,000m³/day**
STP by MBBR Process
Al Reef Villas
Abu Dhabi, UAE
STP with Moving Bed Biological Reactor (MBBR) producing water for irrigation purposes
- 5 1,000m³/day**
STP by MBBR Process
Prince Mohammed University
KSA
STP with Moving Bed Biological Reactor (MBBR) producing water for irrigation purposes
- 6 1,000m³/day**
STP by MBBR Process
Ali Moosa & Sons Labour Camp
Sharjah, UAE
STP with Moving Bed Biological Reactor (MBBR) producing water for irrigation purposes
- 7 300m³/day**
STP by UTB Process
Sharjah Expo Centre
Sharjah, UAE
Underground Trickling Biofilter (UTB)
- 8 200m³/day**
STP by UTB Process
Sir Baniyas Island
Abu Dhabi, UAE
Underground Trickling Biofilter (UTB)
- 9 140m³/day**
STP by UTB Process
Wadi Al Halou Villas
Sharjah, UAE
Underground Trickling Biofilter (UTB)
- 10 120m³/day**
STP by UTB Process
Al Maha Desert Resort
Dubai, UAE
Underground Trickling Biofilter (UTB)

Certificates & Registration



Quality Management System
ISO 9001:2008
LRQA - Gran Canaria



OHS Management System
AS/NZS 4801:2001
OHSAS 18001:2007



Quality Management System
AS/NZS 9001:2008



Environmental Management System
AS/NZS 14001:2004

Mobile Water Technology Overview

The Mobile Water Treatment unit from **New Water Corporation** is the most advanced self-contained system in the world that employs the latest **pre-treatment** and **Reverse Osmosis (RO)** capabilities in a fully containerised solution. It has up to **20% less power consumption** than the competitors and has up to **30% less footprint**. **NWC** offers Remote Operation and Monitoring System (ROAM) tailored to customers needs.

- Our Mobile Water Treatment Units (SeaCON & BraCON models) produce between 950 m³ to 5,000m³/day
- Versatile systems are capable of being rapidly deployed in remote and off-grid locations anywhere in the world
- Designed to provide a simple, reliable solution to provide quantity and quality of water
- 24/7 operation on long-term water sites, emergencies and scheduled operations.

Emergency:

- Ensuring the continuity of your production
- Commissioning in a few hours or days
- Guaranteed water quality and quantity
- Complete facility, immediately operational
- Compliance with regulations and your safety rules

Long term rental:

- Producing water with no capital investment
- Deconsolidation of your capital investment
- Leasing period to suit your needs
- Faster setup than a construction
- Training of your teams by our experts

Scheduled operations:

- Planning your pure water requirements
- Securing maintenance or start-up periods
- Adapting to seasonal requirements or temporary deterioration of the water resources
- Carrying out pilot tests
- Turnkey facility (teams, consumables)

Quick Facts - Mobile Water Technology

Services

- 24 hour - 365 days a year water production capabilities logistics and technical support
- Concept design development and early planning stage involvement
- Independently tailored solutions
- Meeting a diversity of water quality specifications
- 24 hour a day installation, service and management
- Total water treatment capability
- Reliable emergency, short and long-term treated water supply
- The fast delivery and provision of pure water in unforeseen emergency, short or long-term situations
- An alternative when installed plant redundancy is too expensive
- Mobile fleet of water treatment units available for rapid, emergency dispatch
- A 24 hour worldwide dispatch centre, manned by a field of experienced logistics specialists
- Available any time of day
- Allows for planned maintenance of permanent water facilities without disruption
- Supports new plant start-up or commissioning
- Provision of pure water during periods of heavy demand needs or when there is a change in feed water quality

Technologies

- Containerised and skid mounted water treatment technology and service units
- Seawater Reverse Osmosis (SWRO)
- Brackish Water Reverse Osmosis (BWRO)
- Multimedia Filtration (MMF)
- Ion Exchange (IX)
- Membrane separation
- MobileFlow demineralised (MBF)
- DEOX process



Mining



Power Generation



Chemical Processing



Industrial Water



Pulp and Paper



Oil / Petroleum



Gas



Coal Seam Gas



Industry Solution

Oil and Gas

With over a decade of experience, our worldwide team supports developments for both **upstream (onshore and offshore)** and **downstream** clients. Focusing on **system performance, compliance** with process and **environmental requirements** and long-term **cost-effectiveness**, we are able to meet the most demanding standards of reliability, safety and quality

Upstream

- Offshore
- Water injection
- Sulphate Removal Package
- Produced water treatment
- SWRO for washwater
- Ballast Water Treatment

Downstream

- Raw water treatment
- Wastewater treatment
- Groundwater remediation
- Recycling, reuse & ZLD

Onshore

- Water injection
- Produced water treatment
- Produced water treatment for SAGD processes
- Water treatment for unconventional gas production



Quick Facts



Services

- Total validated system lifecycle compliance
- Service contracts
- 24/7 service and support infrastructure
- Remote monitoring of installations
- Local support staff
- Spare parts and consumables
- Replacement media
- Water analysis service
- Equipment leasing
- Service Deionization
- Expansion and modification of treatment plants
- Site audits
- Mobile and temporary solutions

An integrated approach ensures short lead times, reliable solutions, minimum risk and proactive services which include:-

- Supply of major and ancillary process equipment
- Global design-build capabilities
- System start-up, staff training and commissioning
- Extension and improvement of existing plants
- Integration of systems and processes
- Pilot & laboratory testing
- Temporary & emergency mobile water treatment solutions
- Remote monitoring & control
- After sales services (spare parts & consumables, water treatment chemicals, maintenance, etc.)



NWC is dedicated to providing solutions for the specific challenges of water and wastewater treatment in the oil and gas industry.

Decades of experience in all types of water treatment and applications have allowed NWC to develop premium quality services for our industrial clients. Services for creating water solutions for the mining industry.

Through a network of over global offices, NWC experts manage complex water treatment projects for the oil and gas industry at a local level.

Industry Solution Mining and Resources

We provide a full range of services including preliminary and detailed engineering, standard and custom **water treatment equipment**, project management, **design-build** and **maintenance services** as well as long-term operation.

- NWC partners with exploration, engineering, and mining companies to solve their water issues from production of potable water or desalinated water in remote locations to **process water and wastewater solutions for all types of hard and soft rock mining sites**

- **Focusing on system performance, compliance with process and environmental requirements and long-term cost-effectiveness, we are able to meet the most demanding standards of reliability, safety and quality**

- **Water is an essential component of every mining project in the world**
- **We understand the unique requirements of mine operations and our worldwide expertise in mine water issues allows us to offer specialized water treatment solutions that treat water and efficiently remove a wide range of contaminants**



Quick Facts

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- Equipment leasing
- Service Deionization
- Expansion and modification of treatment plants
- Site audits
- Mobile and temporary bespoke solutions
- Tailings pond water treatment for re-use or discharge
- Gold / Silver cyanide solution treatment
- Treatment of contaminated pit and underground mine water
- Reuse of mine water for irrigation
- Heavy Metals removal / Metal recovery
- Biological Nitrification / De-nitrification
- Brackish and sea water desalination with associated pipelines
- Effluent treatment
- Sulfate reduction
- Temporary Potable water and sanitary systems (mining camp)

Technology

- Product Recovery and Water Re-Use
- Evaporation and Crystallisation
- Mineral Precipitation Management
- Ion Exchange
- Advanced Membrane Technologies
- Liquid to Liquid Extraction
- Sludge De-watering and Sludge Drying



Focusing on system performance, compliance with process and environmental requirements and long-term cost-effectiveness, we are able to meet the most demanding standards of reliability, safety and quality to treat contaminated pit and underground mine water, reuse of mine water for irrigation, De-nitrification, Brackish and sea water desalination with associated pipelines, Effluent treatment and Potable water and sanitary systems (mining camp).

Access to a fleet of mobile water treatment units, that may be deployed as stand-alone units or combined to form complete systems: trailers, containers and skid-mounted systems for emergency response, planned response and preventive maintenance contracts for all mining and resource projects.

Optimised water site management to address suspended solids and colour removal, colloids removal, removal of heavy metals (iron, lead, cadmium, zinc, etc.), manganese and nitrate reduction, chlorine removal, organic pesticides and COD reduction, recycling of treated wastewater and water conditioning.

Industry Solution Desalination

NWC assumes responsibility for ensuring continuous, efficient water services. Strongly focused on **retail customers** and attentive to the concerns of **public authorities** and **industrial operators**, we provide our clients with services that meet their high standards and solutions that anticipate their changing needs.

- **NWC combats water shortages by deploying seawater, brackish water and wastewater desalination procedures.**
- **NWC provides solutions for drinking water, desalination, water reuse and plant automation. - especially to extend plant lifetime, minimize operating costs, and meet new requirements.**

- **Municipalities and industries around the globe have come to rely on our innovative products and services designed for operational efficiencies and cost-effectiveness.**
- **From conventional to state-of-the-art membrane filtration and disinfection technologies, we offer water solutions that benefit industries and communities alike.**

- **Leveraging our expertise, NWC work with the principal industrial operators in all sectors.**
- **We manage all or part of our clients' water cycle, by supplying them with end-to-end solutions to optimize their processes.**
- **We are thus players in an industrial environmental process, minimizing their carbon budgets and recovering their effluents and treatment channel products for use as new resources or to produce lower-cost energy.**



Quick Facts



New Water
Corporation
Desalination

We work in a number of areas:

Drinking water production and distribution NWC aims to make water drinkable, that is, in line with the World Health Organization's (WHO) public health safety standards and each country's laws.

Seawater desalination. Desalination is a major means of combating water scarcity in arid coastal regions.

Production and treatment of industrial process water. Our company offers industrial operators water cycle management solutions, for process, boiler, cooling and washing water, so that they can concentrate on their core business.

Technology

- Total validated system lifecycle compliance
- Service contracts
- 24/7 service and support infrastructure
- Remote monitoring of installations
- Local support staff
- Spare parts and consumables
- Replacement media
- Water analysis service
- Equipment leasing
- Service Deionization
- Expansion and modification of treatment plants
- Site audits
- Mobile and temporary solutions

Customized technological solutions to design, build and operate industrial water treatment networks and plants.

A wide range of dedicated, customizable services, for all types of needs and involving various levels of integration.

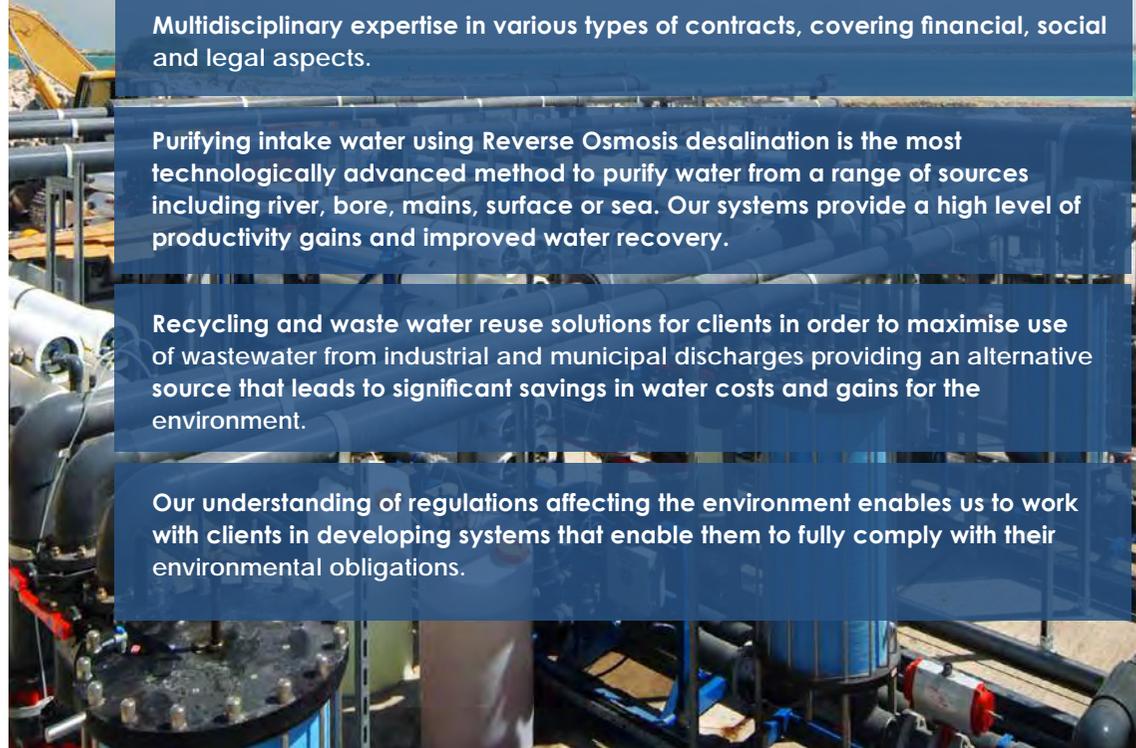
The knowledge and skills of local service providers, backed by an international network of researchers and experts.

Multidisciplinary expertise in various types of contracts, covering financial, social and legal aspects.

Purifying intake water using Reverse Osmosis desalination is the most technologically advanced method to purify water from a range of sources including river, bore, mains, surface or sea. Our systems provide a high level of productivity gains and improved water recovery.

Recycling and waste water reuse solutions for clients in order to maximise use of wastewater from industrial and municipal discharges providing an alternative source that leads to significant savings in water costs and gains for the environment.

Our understanding of regulations affecting the environment enables us to work with clients in developing systems that enable them to fully comply with their environmental obligations.



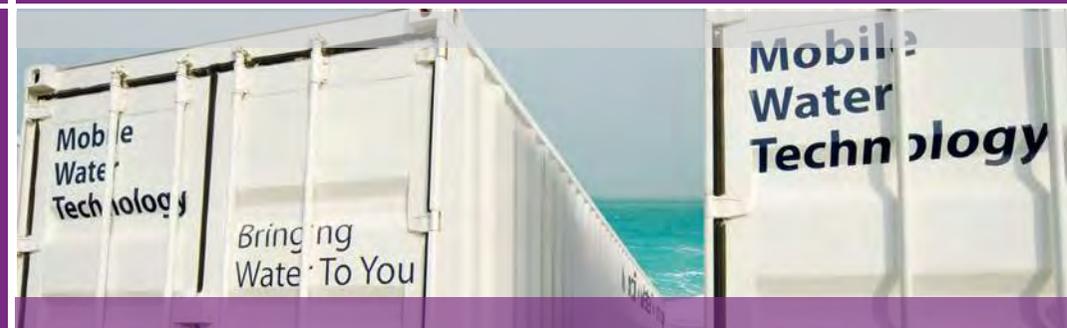
Industry Solution Power

The Mobile Water Systems, a proprietary offering from NWC, provides an **economical** and **efficient** treatment system for **wastewater** resulting from **coal-fired power generation**. Utilizing **proven evaporation and crystallization technology**, these Mobile Water systems produce clean water and stable solids to achieve **Power Industry product water** requirement.

- NWC's expertise and technologies for the power generation industry cover the complete water and wastewater cycle
- We have over 300 power generation references throughout the world

- Through a network of 135 business units worldwide, NWC experts manage complex projects for power generation clients at a local level
- An integrated approach ensures short lead times, reliable solutions, minimum risk and proactive service. Project Development

- Focusing on system performance, compliance with process and environmental requirements as well as long-term cost-effectiveness, we are able to meet the most demanding standards of reliability, safety and quality using the most advanced technology currently available.



Quick Facts

Services

- Total validated system lifecycle compliance
- Service contracts
- 24/7 service and support infrastructure
- Remote monitoring of installations
- Local support staff
- Spare parts and consumables
- Replacement media
- Water analysis service
- Equipment leasing
- Service Deionization
- Site audits
- Mobile and temporary solutions (SEACON)
- Re-validation of existing plant
- Expansion and modification of treatment plants
- Refurbishment & update of systems
- Mobile and temporary solutions
- Water treatment chemicals
- Complete water cycle management & outsourcing

Technologies

- Pre-treatment
- Boiler feed water
- Condensate polishing
- Cooling tower side stream
- Cooling tower blow down
- Wastewater treatment
- In addition, emergency or planned temporary water treatment services are also available in many countries.



NWC's water treatment engineers develop solutions for power generation clients that focus on this industry's key requirements:

Reliability - avoiding costly downtime through proven technologies and local service

Efficiency - developing solutions that help the client generate the maximum amount of electricity using the minimum amount of resources

Compliance - engineering systems that ensure compliance with environmental legislation while reducing the plant's water footprint

Dependability - delivering the project on time avoids additional costs

Industry Solution Municipal

At **NWC**, operating and managing utility needs for our clients is part of our core expertise. Our industrial engineers combine that expertise with years of operational experience in the **water/wastewater** to manage water and wastewater collection and **treatment systems** efficiently, we have devised a comprehensive approach to assist public authorities, **tailored to their size and technical and regulatory challenges.**

- The success of wastewater projects is ensured through clearly defined steps, including needs assessment, a local strategy, a quality guarantee, service performance measurements and communicating to residents about the impact of the service.
- The technical services provided by our staff of field engineers, O&M specialists and process engineers are

We offer the following services to our industrial clients:

- Operations and maintenance programs that utilise industrial water, wastewater and utility experts to solve challenges and improve processes with long-term performance guarantees.
- NWC work on-site with your operations staff to understand the core issues affecting operations and develop a plan that we can implement to accomplish your goals.

Upgrade Solutions

- Our upgrade solutions add equipment, technology or processes to existing facilities that can result in cost savings, optimizing target performance levels or environmental compliance improvement.
- NWC's practical approach to upgrading, operating and maintaining facilities leverages your existing operation's assets, labor and technology with our resources, allowing you to focus on your production output.



Quick Facts



Benefits

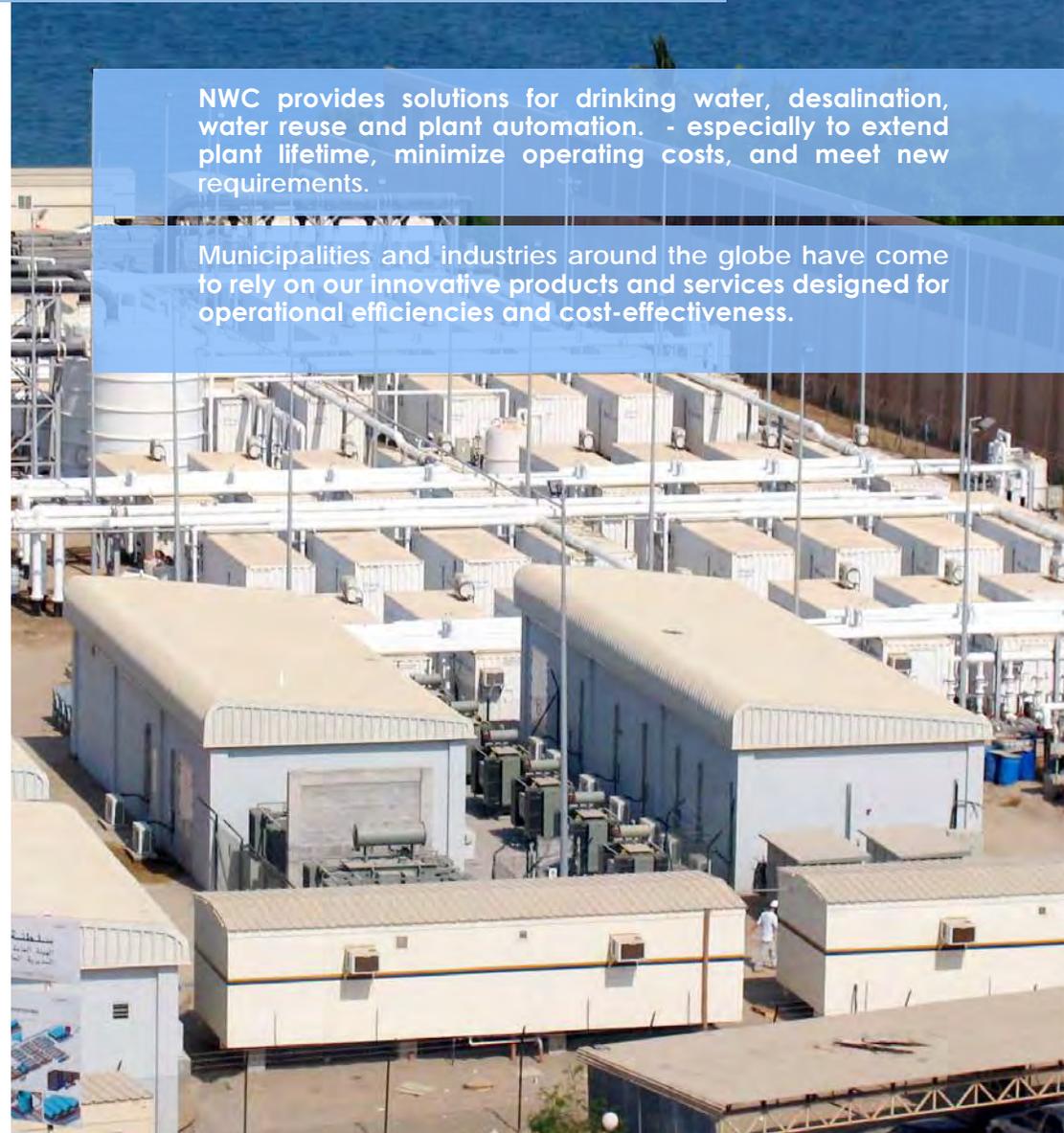
- Total validated system lifecycle compliance
- Service contracts
- 24/7 service and support infrastructure
- Remote monitoring of installations
- Local support staff
- Spare parts and consumables
- Replacement media
- Water analysis service
- Equipment leasing
- Service Deionization
- Expansion and modification of treatment plants
- Site audits
- Mobile and temporary solutions

Applications

- Arsenic Removal
- Disinfection
- Disinfection By-Products Removal
- Groundwater Remediation
- Taste and Odor Control
- Featured Products and Services
- Granular Activated Carbon
- Chemical Feed & Disinfection
- Membrane Filtration
- Separation & Clarification

NWC provides solutions for drinking water, desalination, water reuse and plant automation. - especially to extend plant lifetime, minimize operating costs, and meet new requirements.

Municipalities and industries around the globe have come to rely on our innovative products and services designed for operational efficiencies and cost-effectiveness.



New Water Corporation Utilities Management

The **NWC Utilities Consortium** offers **Governments, municipalities, national water utilities and private companies**, world class expertise in all aspects of **water supply, sanitation and sewerage treatment**.

- NWC offers **Operations & Maintenance; Operator and Management Training; Asset Management and life cycle planning Government regulatory development and system implementation; Water and Wastewater Planning; Retailing (billing and metering) Community Consultation and Awareness; Water Recycling (sewer mining, and or TSE polishing) Process design and detailed engineering; Contract management and development**

- **Infrastructure Requirements: Intake System; Pumping Facilities Pretreatment; Water Treatment Infrastructure; Membrane Treatment; Post treatment; Product Water Facility; Network Design; Network Infrastructure; Metering Infrastructure; CRM and Billing System; Geographical Information System; Enterprise Asset Management; Operations and Maintenance Infrastructure**

- Due to the regulated nature of our business our asset management processes need to be well documented and exceed industry best practice.



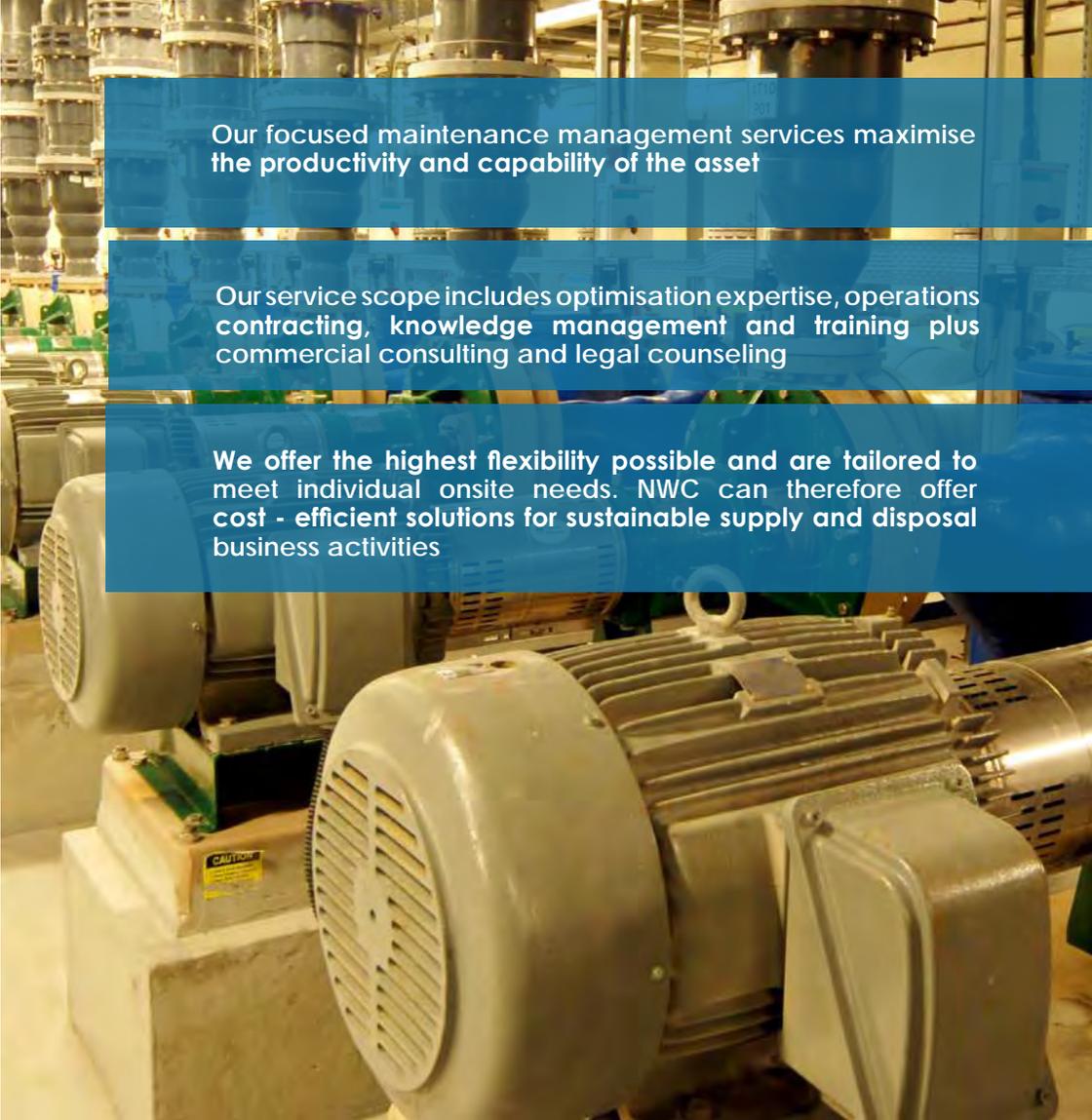
Quick Facts

Services

- Operations & Maintenance
- Operator and Management Training
- Asset Management and life cycle planning
- Government regulatory development and system implementation
- Water and Wastewater Planning
- Retailing (billing and metering)
- Community Consultation and Awareness
- Water Recycling (sewer mining, and or TSE polishing)
- Process design and detailed engineering
- Contract management and development
- Engineering , Procurement and Construction (EPC)
- Continual Improvement in Utility Management Best practices

Capabilities

- Strong Experience and Knowledge of the Region (GCC)
- Alliance (Public-Private-Partnerships) Expertise
- Critical Public Asset Management
- Risk/Opportunity Management (performance driven culture through KPI's)
- Enterprise Development, from a Government perspective
- This is a unique synergy between the NWC Consortium- Transitional changes, commercialization, and knowledge transfer through in house training programs
- Customer Service
- Asset Base and Asset Management System
- Asset Management Benchmarking
- Business Systems and Control Systems
- Maintenance Management System
- Training and Knowledge Transfer
- Continuous Improvement



Our focused maintenance management services maximise the productivity and capability of the asset

Our service scope includes optimisation expertise, operations contracting, knowledge management and training plus commercial consulting and legal counseling

We offer the highest flexibility possible and are tailored to meet individual onsite needs. NWC can therefore offer cost - efficient solutions for sustainable supply and disposal business activities

New Water Corporation Wastewater

Whether packaged, centralised or at point of source, **NWC** has 18 years of regional experience and a portfolio of more than 20 years in treating **municipal** and **industrial wastewater**.

- NWC is in a unique position of being both a provider of advanced technologies for the treatment of wastewater and also the **downstream membrane-based treatment systems for the production of high quality water**
- **The water produced from the combination of both processes can then be used in water re-use or re-cycling applications**

- **This standard indicates compliance in the removal of both nutrients and suspended solids to a low level and the removal of biodegradable organics.**
- **Odorous constituents are also converted in the process. Through disinfection of the treated wastewater, re-use strategies have been adopted for water to be distributed to downstream users including irrigation, farming, energy and industrial applications.**

- **Advanced wastewater treatment plants offer higher performance and operational efficiencies with reliabilities that have set new standards in wastewater treatment**
- **The expertise and experience of NWC is targeted to the delivery of the highest quality water outcomes whilst maintaining optimum plant reliabilities**
- **Modern treatment plants deliver performance to the tertiary level of treatment standards.**



Quick Facts



Products

- Membrane Bioreactor (MBR)
- Moving Bed Bioreactor (MBBR)
- Sequence Batch Reactor (SBR)
- Underground Trickling Biofilter (UTB)
- Extended Aeration Plant (Capitox)
- Packaged sewage treatment
- Greywater treatment
- Sludge dewatering
- Thermal processing



Underground Trickling Biofilters



Moving Bed BioReactor (MBBR)



Membrane BioReactor (MBR)



Extended Aeration Plant(Capitox)



Thermal Processing



Sequence Batch Bioreactor (SBR)



Packaged Sewage Treatment



Greywater Treatment



Sludge Dewatering

Our Expertise

- BO, BOO, BOOT, DBOOT schemes
- Collection, pumping and treatment systems
- Storm Water collection, retention and treatment systems
- Municipal & industrial wastewater
- Disinfection
- Solid / liquid separation
- Sludge treatment and disposal
- Recycling and re-use
- Tariff development
- Operation and maintenance

PROJECT PROFILES



Desalination Water Treatment for Injection, Qatar



Desalination Water Treatment for Injection, Qatar

CASE STUDY

PROJECT NAME:	Desalination Water Treatment for Injection
PROJECT LOCATION:	Qatar
PROJECT SIZE:	90,000m ³ /day of product water
SERVICES PROVIDED:	The Design, engineering, Manufacturing and Commissioning and operations. Pre- Treatment media filtration system. Seawater reverse osmosis desalination system. Energy recovery.
PRODUCTS PROVIDED:	Seawater reverse osmosis desalination system. Clean in place, Piping support system.



We built the largest marine exhibit in the Middle East - The Ambassador Tank at Atlantis



Atlantis, The Palm, and Aquaventure, Dubai, UAE

CASE STUDY

- PROJECT NAME:** Atlantis
- PROJECT LOCATION:** Atlantis, The Palm, Dubai, UAE
- PROJECT SIZE:** 990,000m³/day of product water (US Gal 261,530,332/day)
- SERVICES PROVIDED:** The supply, installation and commissioning of all the Life Support Systems (LSS) required to sustain the aquatic exhibits at Atlantis, complete with the mechanical plant equipment and servicing of the freshwater applications, i.e. the rides & slides for Aquaventure.
- PRODUCTS PROVIDED:** Sand filters, heat exchanges, pumps, strainers, ozone generating equipment, compressors, chemical dosing, foam fractionators, UPVc pipe systems ranging from 1" through to 24", valves & fittings



The Tiger Woods, Dubai, UAE



The Tiger Woods, Dubai, UAE

CASE STUDY

- PROJECT NAME:** Al Ruwaya Course - Water Infrastructure
- PROJECT LOCATION:** Tiger Woods Golf Course, Dubai
- PROJECT SIZE:** 5,000m³/day of product water (US Gal 1,320,860/day)
- SERVICES PROVIDED:** On-site mobilisation, installation, all civil works, commissioning, operations and maintenance
- PRODUCTS PROVIDED:** Low velocity filtration systems, chemical dosing units, R.O. plant with fouling resistant membranes



Saadiyat Island's SWRO Plant for producing 10 million litres of product water per day



Saadiyat Island, Abu Dhabi, UAE

CASE STUDY

- PROJECT NAME:** Saadiyat Island – Stage 1 Water Infrastructure
- PROJECT LOCATION:** Saadiyat Island, Abu Dhabi, UAE
- PROJECT SIZE:** 10,000m³/day of product water (US Gal 2,641,721/day)
- SERVICES PROVIDED:** On-site mobilisation, installation, all civil works, commissioning, operations and maintenance
- PRODUCTS PROVIDED:** Sea water intake system, media filters, chemical dosing units, sea water reverse osmosis plant



Al Ghubrah Desalination Plant, Muscat, Oman



The region's largest Mobile Water Plant -
The Al Ghubrah 5 MIGD Mobile Water Plant



Al Ghubrah Desalination Plant, Muscat, Oman

CASE STUDY

- PROJECT NAME:** Al Ghubrah 5 MIGD Mobile Water Treatment Plant
- PROJECT LOCATION:** Muscat, Oman
- PROJECT SIZE:** 22,700m³/day of product water (US Gal 5,996,705/day)
- SERVICES PROVIDED:** Design, Installation and Operation of Plant
- PRODUCTS PROVIDED:** Sea water intake pipework, break and storage tanks, multimedia filter containers, seawater RO containers, low pressure pumps, chemical dosings, air blower, 33KV & 11KV transformers and switchgear and all pipeworks, chemical storage building and on-site offices



MEED Quality Award 2011 Winner:
GCC Water Reuse Project of the Year

NWC's Mobile Water Plant in Domestic Solid Waste Management Center, Qatar - producing 720m³ of demineralised water per day

DSWMC - Keppel Seghers Engineering

CASE STUDY

- PROJECT NAME:** DSWMC Domestic Solid Waste Management Center
PROJECT LOCATION: Doha, Qatar
PROJECT SIZE: 720m³/day demineralised water (US Gal 190,204/day)
SERVICES PROVIDED: Design, Supply, Installation, Operation and Maintenance of Plant
PRODUCTS PROVIDED: 1 No. Mobile Brackish Water Reverse Osmosis Unit and 1 No. Demineralisation Unit



Oxy Oil Field - GAP RO, Mukhaizna, Oman



The supply of high quality and polished feed water for the Oxy Oil Field was made possible by our Mobile Water Technology



Oxy Oil Field - GAP RO, Mukhaizna, Oman

CASE STUDY

- PROJECT NAME:** Supply of high quality and polished feed water for Steam Generation- GAP RO
- PROJECT LOCATION:** Mukhaizna, Oman
- PROJECT SIZE:** 12,000m³/day of product water (75,500 barrels/day or US Gal 3,170,064)
- SERVICES PROVIDED:** Supply, installation and operation of sea water MMF containers, softener units, SWRO containers complete with CIP and chemical dosings
- PRODUCTS PROVIDED:** Sea water MMF containers, SWRO containers complete with CIP and chemical dosings container, softener units, DG interface panel, instruments, etc.



Saadiyat Island's Temporary Water Solution -
NWC's Mobile Water Technology

Saadiyat Island, Abu Dhabi, UAE

CASE STUDY

PROJECT NAME:	Saadiyat Island – Temporary Mobile Water Solution
PROJECT LOCATION:	Saadiyat Island, Abu Dhabi
PROJECT SIZE:	Desalination production 1,000m ³ /day (US Gal 264,172/day)
SERVICES PROVIDED:	On-site mobilisation, installation, all civil works, commissioning, operations and maintenance
PRODUCTS PROVIDED:	Sea water intake system, media filters, chemical dosing units, sea water reverse osmosis plant



Iberdrola Power Station, Doha Qatar



NWC's Mobile Water Units solution
Producing 4,500m³/day from Brackish water at
Iberdrola Power Station



Iberdrola Power Station, Doha Qatar

CASE STUDY

- | | |
|---------------------------|--|
| PROJECT NAME: | Iberdrola Power Station Start-up and Commissioning |
| PROJECT LOCATION: | Doha, Qatar |
| PROJECT SIZE: | Brackish RO producing 4,500m ³ /day (US Gal 1,188,774/day) |
| SERVICES PROVIDED: | On-site mobilisation, installation, all civil works, commissioning, operations and maintenance |
| PRODUCTS PROVIDED: | Brackish water system, media filters, chemical dosing units, brackish reverse osmosis plant |



The Bahrain Redevelopment Project is a joint venture between nogaholding (the business and investment arm of Bahrain's National Oil & Gas Authority), Occidental Petroleum Corporation and Mubadala Development Company

Tatweer Petroleum (Enhanced Oil Recovery using OTSG)

CASE STUDY

PROJECT NAME: Tatweer Petroleum
PROJECT LOCATION: Awali Oil Field, Bahrain
PROJECT SIZE: 2,250m³/day of product water
SERVICES PROVIDED: Design, Engineering, Procurement, Assembly, Start-Up and Commissioning
PRODUCTS PROVIDED: Multimedia Filtration, Brackish Water Reverse Osmosis, Softener (WAC and SAC)



Pearl Dive Pool Project, Dubai, UAE



The region's deepest diving tank experience
- NWC's latest water project



Pearl Dive Pool, Dubai, UAE

CASE STUDY

- PROJECT NAME:** Pearl Dive Pool
- PROJECT LOCATION:** Nad Al Sheba, Dubai, UAE
- PROJECT SIZE:** 74,400m³/day of Product water
- SERVICES PROVIDED:** Construction of an indoor scuba diving facility including design, fabrication, delivery, factory testing, site assembly, installation, site testing & commissioning of the aquatic systems.



NWC's MBBR Technology treats 1,000m³ of waste water per day at Al Reef Villas

Al Reef Villas, Abu Dhabi, UAE

CASE STUDY

- PROJECT NAME:** Al Reef Villas
- PROJECT LOCATION:** Abu Dhabi, UAE
- PROJECT SIZE:** STP processing 1,000m³/day
- SERVICES PROVIDED:** Concept, design and installation of STP for Al Reef Villas (1,100 villa complex)
- PRODUCTS PROVIDED:** STP with Moving Bed Biological Reactor (MBBR) producing water suitable for irrigation purposes



Wadi Al Helo, Sharjah, UAE



NWC's UTB Technology - Sharjah Municipality's choice for Wadi Al Helo Community



Wadi Al Helo, Sharjah, UAE

CASE STUDY

- PROJECT NAME:** Wadi Al Helo Villas (80 nos. villas)
- PROJECT LOCATION:** Wadi Al Helo, Sharjah, UAE
- PROJECT SIZE:** STP processing 70m³/day
- SERVICES PROVIDED:** Supply and Installation of Sewage Treatment Plant
- PRODUCTS PROVIDED:** Underground Trickling Biofilter (UTB)

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