



## SERVICES

Besides the Design , Engineering , Procurement , Assembly , Testing (FAT , witnessed by the client ) and Commissioning of Water / Waste Water Systems we also provide associated Services i.e.

- Water Audits of existing facilities
- Long-Term Service Agreements for Maintenance /Inspection
- Operation & Maintenance (O&M)
- BOO / BOOT Contracts
- Leasing of Containerized Desal- and Waste Water-Plants
- Offshore Healthcare Contracts (OPITO certified)
- Refurbishment Contracts



## REFERENCES

a selection of our references

- Offshore Desal for a Platform – Qatar Petroleum / Technip in Qatar
- Offshore Watermaker for Drilling Rigs of International O&G Company , in GCC
- Onshore Desal / Waste Water Plant , Container for Petrofac in Iraq
- Onshore Desal , Container for International Oil Company in Iraq
- Onshore Desal for an Industrial Utility Company in UAE
- Onshore Desal for an Industrial Client in UAE (UF,SWRO,BWRO)
- Oil Water Separation (CPI,DAF,MBBR,UF-ceramic) for Oil Company in KSA
- Contaminants Removal from Ground Water (TNT/RDX), Military , KSA
- Desal / Demin / Waste Water Systems for a Gas-Fired Power Plant in Ghana
- Container Desal Rental for Power Plant in KSA
- Container Water Purification Plants for Ethiopia
- Desal / Demin , Turn-Key , for Aluminum Company , UAE
- Desal / Demin (ATEX) for Gas Field Project in Iraq
- Demin for Aluminium Company in Bahrain
- Desander Package for Oil Field in Kuwait
- Desal / Waste Water (ATEX) for Gas Field Project in Algeria
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# Integrated Water Solutions for Infrastructure , Energy , Oil & Gas , Defense

Water Audit  
Design  
Engineering  
Procurement  
Construction  
FAT  
Installation  
Commissioning  
O&M  
DBOO / DBOOT  
Leasing  
Long-Term Service  
Offshore-Healthcare  
Overhaul





# Solutions & Technologies at work for you

## INTEGRATING BEST AVAILABLE TECHNOLOGIES INTO FULLY INTEGRATED SOLUTIONS

Either developed in-house or in co-operation with international partners we do integrate innovative , best available technologies (BAT) into the integrated , end-to-end, solutions always considering the added value for our client in its day-to-day operations.

As an End-to-End Solution Provider we also integrate existing facilities as well as peripheral equipment i.e. tanks , pump-stations , control rooms , DCS hook-up and others .

<b>FT-FO</b>	Forward Osmosis
<b>FT-ROEDI</b>	RO/Electro-De-Ionization
<b>FT-AMBBR</b>	Advanced MBBR
<b>FT-CERAM</b>	Ceramic Membranes
<b>FT-CPI</b>	Hydrocarbon Separation
<b>FT-AOP</b>	Spent Caustic Treatment
<b>FT-ACO</b>	Spent Caustic Treatment
<b>FT-ANAE</b>	Anaerobic Technologies
<b>FT-DIGEST</b>	Innovative Sludge Treat.
<b>FT-RENRO</b>	Renewable Desalination
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### ADDED VALUE FOR OUR CLIENTS

- Reduce Water-Foot-Print
- Reduce Energy-Foot-Print
- Reduce Carbon-Foot-Print
- Reduce Operating Cost
- Reduce Total Cost of Ownership (TCO)
- Reduce Plant Foot-Print
- Reduce Waste Generation
- Improve Operational Efficiency
- Improve Operational Reliability
- Improve Oil Recovery
- Improve Water Re-Use

## Flexible , innovative , enhanced , End-to-End Solutions to improve your business

### TAILOR MADE SOLUTIONS

Based on the analysis of the feed water to the systems , considering the project specifications , the countries or the clients standards as well considering the clients requirements for the treated product (i.e. safe disposal or re-use) we design , build and operate the most economical solutions. In cases of difficult water compositions or unknown parameters , a pilot –plant might be required at site, in order to assess the suitability of a particular technology under the given site conditions.

### CONTAINERIZED SYSTEMS (EPC or LEASE)

#### WATER

<b>FT-CBWRO</b> , Brackish Water Desalination	(150-1,000 m3/d)*
<b>FT-PVCBWRO</b> , Solar Powered BWRO	(500 or 1,000 m3/d)*
<b>FT-CSWRO</b> , Seawater Desalination	(150-1,000 m3/d)*
<b>FT-PVCSWRO</b> , Solar Powered SWRO	(50 or 90 m3/d)*

#### WASTE WATER / RE-USE

<b>FT-CMBBR</b> , Moving Bed Bio Reactor	(25-1,000 m3/d)*
<b>FT-CMBR</b> , Membrane Bio Reactor	(10-1,000 m3/d)*

\*per single container/package

### CORE COMPETENCIES

- Process Design
- Mechanical Design
- CAD (2D,3D)
- Electrical , I&C Design (SLD/I/O)
- Control/Automation Design
- Global Procurement
- HSE Plan
- QA Plan , ITP, FAT, SAT Assembly & Testing
- Installation , Hook-Up
- Pre-Commissioning / Commissioning
- Performance Run
- Site Acceptance Test (SAT)
- Spare Parts (SPIR / E-SPIR)
- Long Term Service Agreements (LTSA)
- Remote Monitoring
- Offshore Services
- Upgrades
- Refurbishments
- Expansions



### INFRASTRUCTURE - SOLUTIONS

- Filtration , Softening
- Desalination / Demineralization
- Waste Water Treatment / Recycling
- Sewage Treatment / Recycling
- Oil Water Separation / Recycling
- Containerized Water
- Containerized Waste Water

### ENERGY - SOLUTIONS

- Surface Water Filtration / Softening
- Desalination
- De-Mineralization
- Process Water
- Boiler Feed Water
- Blow Down Water Recycling
- Oil Water Separation
- Waste Water Treatment
- Zero Liquid Discharge (ZLD)
- Camp Water (Container)
- Camp Waste Water (Container)

### OIL & GAS - SOLUTIONS

- Desalination (on-/offshore)
- Offshore Watermaker
- Produced Water
- Injection Water
- Oil Water Separation
- Spent Caustic Treatment
- Camp Water (Container)
- Camp Waste Water (Container)

### DEFENSE - SOLUTIONS

- Mission Critical Desalination
- Mission Critical Water Purification
- Container / Trailer / Portable
- Hydration / Purification for Special Ops
- TNT / RDX-Removal
- Rapid Water Solutions (Fast Track)
- Camp Water (Container)
- Camp Waste Water (Container)

