

Okiana

WATER SOLUTIONS



Okiana delivers end-to-end water treatment solutions for multiple industries and market segments.

About Us:

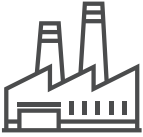
- Over 30 years of experience
- Over 100 projects executed world-wide in all aspects of water treatment solutions:
 - Design & Engineering
 - Construction & Integration
 - Operations & Maintenance
 - Post project support
- Experienced and expert team with company since inception keeping all accumulated knowledge within the company.
- Customer oriented
- Best-of-choice solutions

Our Customers Gain:

- Control over project cost & Quality
- Tailor-made solutions fit for defined needs
- Single point of responsibility
- Accumulated knowledge which translates into:
 - Vast selection of proven technology
 - Modular & flexible approach
 - Efficiency, Optimization & Simplicity
 - Low Maintenance
 - Environmentally-friendly



Markets:



Industrial:

- Power and utilities
- Electronics and microelectronics
- Mining
- Oil and Gas
- Food, Dairy and Beverage
- Pharmaceutical
- Automotive
- Refinery and chemicals
- Boilers and cooling towers



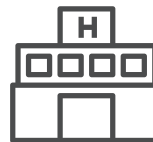
Municipal:

- Cities
- Towns
- Rural Settlements
- Villages



Farming and Agriculture:

- Field Crops
- Nurseries
- Growers
- Livestock
- Farms



Services:

- Hotels
- Resorts
- Institutions
- Hospitals
- Military
- Disaster Relief

End-to-End Expertise:

- Customized solutions
- Ultra-pure water
- Reclamation
- Containerized and mobile solutions
- Civil Engineering:
 - Pipe networks for all the above sectors
 - Pump stations
 - Reservoirs
- Remote controlled systems
- Energy recovery and optimization
- Solar energy based systems
- Environmental friendly solutions
- Operating and financing methods - Turnkey, EPC, BOT, BOO, PFI
- Zero liquid discharge

At the Forefront of Technology:

Water Treatment:

- **Surface Water**

Water originating from rivers, lakes, channels and reservoirs is often muddy, and may contain any contamination naturally/human/industrial sourced such as: Algae, Silt, Clay, oil, high COD/BOD, salt etc.

Our innovative field-proven technologies, remove such contaminants with the highest efficiency.



- **Well / Ground Water**

Whether naturally polluted by either iron, manganese, nitrates, silica, high TDS value etc. or man-made pollution, testing and identifying the source of contamination is the first step to assuring safe & clean water. Once tested & identified, all contamination is removed using methods such as oxidation, physico-chemical, desalination, etc. with the highest reclamation ratio.



- **Seawater & Brackish Water**

Salt and salty water must be desalinated in order to be used for domestic, municipal and industrial purposes. Utilizing our vast experience, we offer various desalination solutions for both brackish and seawater sources per need basis assuring the highest reclamation ratio.



- **Tap Water**

Tap water is treated for many industrial and non-industrial markets.

We address each case using specific techniques such as filtration, softening, desalination and disinfection to assure optimal results.

- **Process Water**

Factories and manufacturing facilities require tailored water treatment solutions that meet specific needs. Our field-proven implementations provide industrial based solutions from decontamination of sulfate, nitrates, THMs, to organic compounds and more.



Wastewater Treatment:

- **Sewage: Primary, Secondary & Tertiary Treatment**

Typical sewage treatment consists of two phases: mechanical filtration (primary treatment) and removal of organic & inorganic materials (secondary treatment) and an additional stage which includes coagulation, fine filtration and chlorination (tertiary treatment). This assures purified wastewater for irrigation and industrial use as well as returning treated water back to nature.

- **Industrial Wastewater**

Compliance with local authority's industrial wastewater treatment including effluent treatment is often a must. We provide cost-effective regulatory compliance solutions that fit all.

Field-Proven Technologies and Development:

Physico-chemical

- Coagulation & flocculation
- Clarifiers and DAF (Dissolved Air Flotation) systems

Filtration

- Media filtration (sand filters) using basalt, quartz
Special media: anthracite, active carbon and catalytic media
- Basic filtration using depth filters, pressure filters, cartridge filters, gravity filters
- Mechanical screening & filter press

Membrane Processes and Desalination

- Micro Filtration (MF)
- Ultra Filtration (UF)
- Nano Filtration (NF)
- Reverse Osmosis (RO)
 - Brackish Water (BWRO)
 - Sea Water (SWRO)
 - Possibility for high recoveries of more than 90%
- Submersible Membranes
- Membrane Bio-Reactor (MBR)

Ion Exchange

- Softening
- Mixed bed
- Demineralization

Disinfection

- Ultraviolet (UV)
- Chemical & advanced methods: Ozone, Chlorine, Advance Oxidation (AOP) and other

Polishing and Other

- Electrodeionization (EDI)
- Electrodialysis Reversal (EDR)
- Remineralization







Okiana Water Solutions LTD. | www.okiana.com

info@okiana.com | Tel: +972 50 6425356, +972 52 3493490

5/A Abigail St. Haifa, Israel 3467405