

Water Wastewater Brine Waste

Treating with Technology



Pacific States
WATER

Treatment

Reuse

Reduction

Innovative Designs and Customized Solutions

3D General Arrangement Drawings



- Bench Scale and Pilot Testing
- All of our Projects are Designed with 3D Modeling from Conceptual Design to Final Design
- 3D Modeling Video Features
- Superior Designs Deliver Efficiency Value Added Engineering and Overall Project Savings

Containerized Systems



- Containerized Systems Offer Mobility and Remote Location Installations
- Flexible Configurations
- Systems are Plug & Play
- Containerized System Modules can be Expanded to Meet any Flow Rate

Innovative Customized Solutions



- Proven Technologies
- High Flow Rates - Small Footprint
- Customized to the Clients Need
- Can be Designed with Future Expansion In Mind
- Innovative Systems Deliver Savings, Reduction in Footprint and Reuse

Our project treatment technologies include solutions for water, wastewater, recycled water, water reuse, re-purposing water, reclaimed water, desalination, brackish water, brine reduction, high purity water, contaminated water, groundwater recharge and zero liquid discharge for the private, commercial, and industrial market sectors.

Equipment Solutions and Our Market Sectors

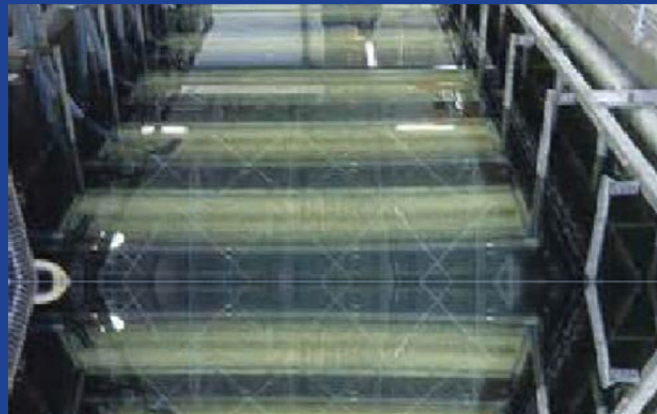
Large Water Users - Discharge Compliance - Brine Reduction

Membrane Treatment Systems



- MF, UF, NF, RO - Seawater, Salt Water, Brackish Water Membranes
- Flow Rates - 10 to 100,000 GPM
- RO Concentrator Systems
- Well Water Treatment Systems

Membrane Bioreactor Systems



- Compact MBR Cartridge Design
- Small Footprint - High Flow Rates
- Quad Stack Capabilities
- Unlimited Process Design Capacity
- 90% reduction in BOD, COD & TSS

Zero Liquid Discharge Systems



- 95+% Water Recovery at <50TDS
- Vacuum Membrane Distillation
- **No Chemicals** - Low Power Costs
- Permeate is Distilled Water +/-2 ohms
- Reduce Brine Disposal Costs

High Volume Water Users

- Golf Courses, Sports Fields, Parks & Cemeteries
- Hotels, Resorts, Casinos, Colleges & Universities
- Commercial Business & Apartment Complexes
- Food and Beverage Manufacturers & Processors
- Agriculture & Crop Farming Operations
- Industrial Manufacturing Facilities
- Electrical Power Plants
- Cooling Towers

Discharge Compliance

- Industrial Manufacturing Facilities
- Food & Beverage Manufacturers & Processors
- Craft Breweries, Liquor Distilleries & Wineries
- Chemical & Solvent Manufacturers & Processors
- Large Laundry Service Facilities
- Printing and Dye Facility Dischargers
- Cooling Towers
- Wastewater Generator Operations

Brine and Wastewater Reduction

- RO Reject Brine Reduction at 95 to 97%
- Oil Field Operations & Oil & Gas Production
- Mine & Mine Tailing Waste Operations
- **Semiconductor and Chip Manufacturers**
- Industrial Manufacturing Facilities
- Food, Bottled Water & Beverage Manufacturers
- Chemical & Solvent Separation Recovery
- **High TDS Brine Concentrate Management**



Pacific States
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