

Water Wastewater Brine Waste

Treating with Technology



Pacific States  
WATER

Treatment

Reuse

Reduction

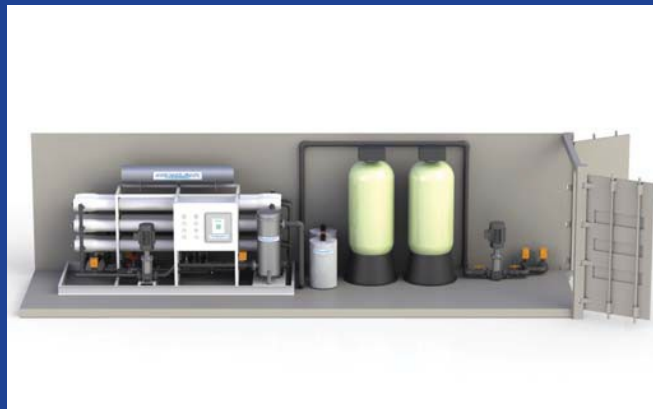
# Innovative Designs and Customized Solutions

## 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

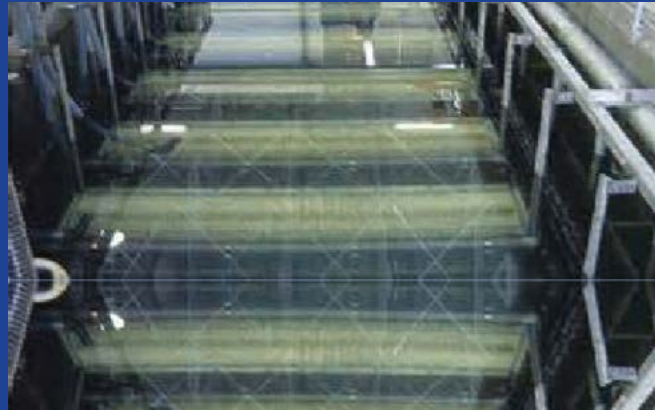
## Large Water Users - Discharge Compliance - Brine Reduction

### 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 <50 TDS
- 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 Discharger's
- 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



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**WATER**

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