



CalDesal



**A Unified Voice for Water Desalination And Salinity
Management in the Golden State!**

Manage Your Salt Session

Regulatory Issues & Opportunities in Desalination

Multi-State Salinity Coalition Annual Salinity Summit

February 28, 2019

CalDesal Mission Statement:



“CalDesal is an advocate for clean, safe, reliable drinking water for California through environmentally responsible water desalination and salinity management.”

Advocacy:

- ★ Engage with Legislature
- ★ Engage with Administration
- ★ Engage with Regulators



Partnerships:

- ★ With other organization and agencies

Membership:

- ★ Increase effectiveness with more resources and people

Regulatory Issues And Opportunities in Desalination

- ★ Regulations in California and implementation**
- ★ Some Solutions in Regions**
- ★ Desalination Opportunities**

Regulatory Issues



- Clean Water Act
 - Beneficial Use – Municipal, Industrial, Agricultural
 - Other impacts – aquatic life
- ESA – CAESA
 - Salinity impacts on protected species

Regulatory Issues - Implemented



- Regional Boards – Basin Plans
 - Set Salinity Objectives
 - TDS, Chloride concentrations, Elect Connectivity
 - Also – NPDS discharge permits
- State Board - Bay Delta
 - Water Quality Control Plan (WQCP)
 - DWR & Bureau – Permits to meet WQCP
 - State Water Project (SWP) & Central Valley Project (CVP)
 - Colorado River
 - US F&W BO for SWP & CVP
 - Salinity Requirements – Smelt

Solutions - Examples

❖ **Santa Ana Watershed Authority**

- You Will hear about this from other panelist
- Managing Salt Imbalance & Salt Mmt. plan – With Brine Line

❖ **Nor-Cal - Zone 7 Demineralization project**

❖ **CV-Salts**

(Central Valley – Salinity Alternatives Long-Term Sustainability)

- Large group of Stakeholders, regulators and agencies
- Regional Board Basin Plan Amendment
 - NPDES Permit Compliance challenges
- Future solutions – brackish desalination

Solutions - Examples

❖ **Salton Sea**

- Multi-Year Studies
- Habitat, Dust Suppression, Projects
- Perimeter Lake and Infrastructure
- Recent Prop 68 passage - Funding

❖ **Other Agencies**

- NorCal – Bay Delta and Water Quality & Quantity issues
- Agencies looking at Water Supply and Operational impacts (SGMA)
- Irvine Ranch Water District
 - Salt Study for Districts service area and Recycled water system, discharge

Opportunities in Desalination Ground Water

❖ SoCal – Inland Empire

- Brine Line
 - Eastern Municipal – Brackish Desal, Brine Min, Phases
 - Chino Basin Desalter Authority – Phase and Pellet proj.
- Other Agencies – BWRO

❖ NorCal

- Bay Area – BWRO
- Delta Area salinity impacts and Quality Improvements

Opportunities in Desalination Ocean

- ❖ San Diego WA - Carlsbad
 - Operations – 50K AF
- ❖ Santa Barbara
- ❖ Monterey
- ❖ West Basin – Carson
- ❖ Huntington Beach
- ❖ South Coast – Doheny



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Questions?

For membership information

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