



CalDesal



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

Regulatory Issues & Opportunities in Desalination

Multi-State Salinity Coalition Annual Salinity Summit

March 3, 2017

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)
 - US F&W BO for SWP & CVP
 - Salinity Requirements – Smelt

Solutions - Examples

❖ **Santa Ana Watershed Authority**

- 40 years of Salt Management – many Agencies
- Managing Salt Imbalance
- Salt Management plan – With Brine Line

❖ **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**

- 10 Year Studies
- Habitat, Dust Suppression, Projects
- Perimeter Lake and Infrastructure

❖ **Other Agencies**

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

Opportunities in Desalination Ground Water

- ❖ SoCal – Inland Empire
 - Brine Line
 - Chino Basin Desalter Authority
 - Eastern Municipal – Brackish Desal
 - Other Agencies – BWRO

- ❖ NorCal
 - Bay Area – BWRO
 - Delta Area

Opportunities in Desalination Ocean

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



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Questions?

For membership information

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