



CalDesal

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A Unified Voice for Water Desalination and Salinity Management in the Golden State

CalDesal Conference Excellent Programs Bring Out a Great Crowd

The Third Annual CalDesal Conference was a huge success this year. If you failed to attend, you missed a long list of excellent speakers covering a broad array of timely and pertinent issues.

This year's conference theme was "Transition from Crisis Management to Resource Management" responded to challenges facing today's water managers. As the most severe drought in a generation deepens and public concern about water remains at an all time high, it is clear that California's water supply portfolio must be as robust as possible. All options should be on the table including desalination, both seawater and brackish groundwater cleanup must be available as part of the strategy that could play an important role in meeting California's water supply needs.

Over the two-day event held in Monterey, California, we heard about desalination and salt management policy from several key angles, from the technical to the political to the financial. We learned from in-depth discussion that explored obstacles and alternatives to implementing desalination projects, emerging technology, the path to permitting projects and the water energy connection that has surfaced as an issue in a number of regulatory forums. We also continued the dialogue on the interface between science and policy, and how the state standards for salt and nutrients in groundwater work in the real world.

Thanks to the excellent program built by the CalDesal program committee, the Third Annual CalDesal Conference was our best attended thus far. 🌊

IN THIS ISSUE:

CalDesal Conference –
Excellent Programs Bring
Out a Great Crowd 1

CalDesal Board of Directors
Meeting: Save the Date 1

DWR Announces
Water-Energy Grants 2

Thank You to Our Annual
Conference Sponsors 2

DORIS – an Energy Consumption
Calculator for Seawater Reverse
Osmosis Systems 3

Photos From Our
Third Annual Conference 4

CalDesal Board of Directors Meeting

– Save the Date –

Members of the CalDesal Board of Directors are requested to save the date for our next board meeting scheduled for December 3, 2014 at the Manchester Grand Hyatt in San Diego CA at 7:00 am.

Americas Cup BC room

KEEP IN TOUCH:

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DWR Announces Water-Energy Grants

A The Department of Water Resources (DWR) has recently announced the 2014 Water-Energy Grant Program. This grant program, administered by DWR, is currently accepting applications. Please see below for additional information from DWR, including a link to the program webpage. For questions or additional information, please contact DWR at (916) 651-9613 or DWR_IRWM@water.ca.gov.

DWR has released the Final 2014 Water-Energy Grant Program Guidelines and Proposal Solicitation Package. The application period is now open and applications are due by 5 p.m. on December 12, 2014.

DWR will conduct three applicant workshops in late October and early November to address applicant questions and to provide general assistance to applicants preparing proposals.

Workshops are scheduled as follows:

| Location | Date (all meetings start at 1 pm) |
|--|-----------------------------------|
| Cal/EPA Sierra Hearing Room 1001 I Street Sacramento CA 95814 | October 28, 2014 |
| California Tower Highgrove Room, Suite 200 3737 Main Street Riverside, CA 92501 | October 30, 2014 |
| Woodward Park Regional Library 944 East Perrin Avenue Fresno, CA 93720 | November 5, 2014 |

Applications must be uploaded through DWR's on-line tool, GRanTS, www.water.ca.gov/grants. The Water-Energy 2014 solicitation is now active in GRanTS.

The Final Guidelines and Proposal Solicitation Package and necessary forms can be found at the following website: www.water.ca.gov/waterenergygrant.

Thank You to Our Annual Conference Sponsors



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OF SOUTHERN CALIFORNIA

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Desal...
**it's not just for
the ocean.**

**EMWD is a
proud leader
in groundwater
desalination.**



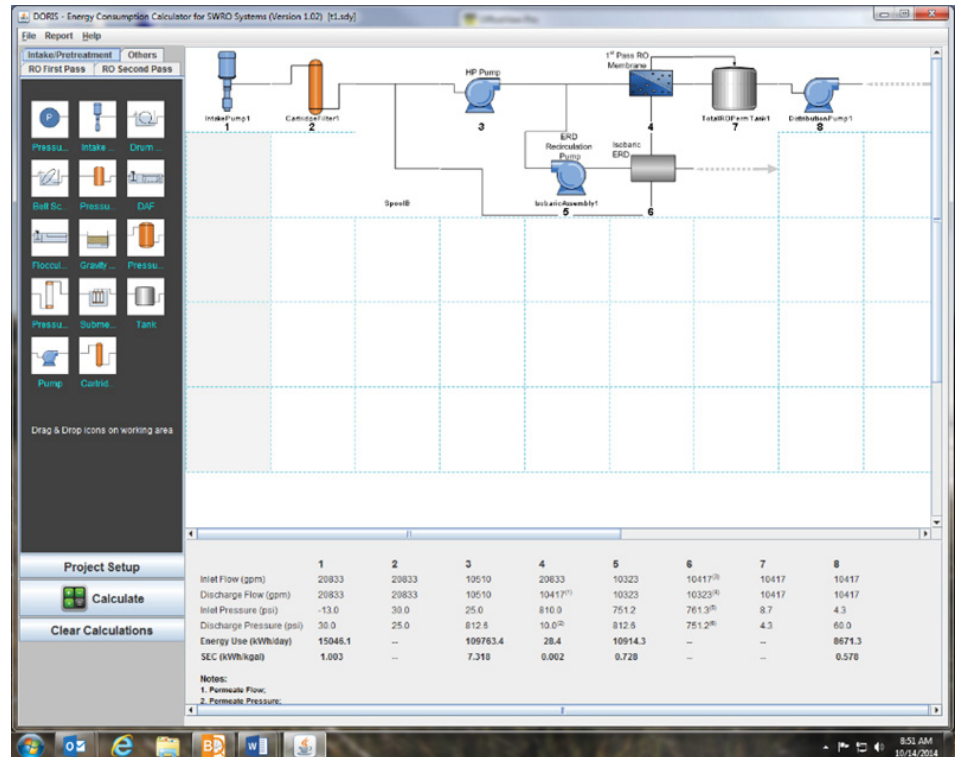
DORIS – an Energy Consumption Calculator for Seawater Reverse Osmosis Systems



The Water Research Foundation (WRF) has released DORIS – an Energy Consumption Calculator for Seawater Reverse Osmosis Systems developed through a Tailored Collaboration with West Basin Municipal Water District.

Reporting of energy consumption for seawater desalination projects has often been limited to the RO feed pumping at ideal conditions, without consideration of intake, pretreatment and product distribution. As such, comparisons of reported energy consumptions between projects can be a case of comparing “apples and oranges.” DORIS establishes a standardized framework to promote a complete and accurate estimation of energy consumption and documentation of the basis of the estimate. The goal of DORIS is to promote calculation of energy consumption which is all inclusive and transparent. Typical users may include planners, design engineers and operators of seawater desalination facilities.

Through the software’s user-friendly graphic interface, a project’s process



design is input via “drag and drop” from a library of process components (e.g. pumps, screens, granular media filtration, microfiltration, reverse osmosis, energy recovery device, etc.). Icons are placed on a workspace to create a process flow diagram. Specific operating parameters (filter head loss, RO operating pressure, pump efficiency, etc.) are input through drop down

menus, with default values provided to streamline the input process, if desired. Additionally, the tool’s guidance feature provides reference data generated at the West Basin Municipal Water District Ocean Water Desalination Demonstration Facility in Redondo Beach, CA, to promote the use of realistic design assumptions.

The calculator output reporting includes specific energy consumption for the entire process, as well as for the process components (intake, pretreatment, first pass RO, second pass RO, etc.). Results are presented in a tabular format, accompanied by the process flow diagram. To supplement the energy calculations, the greenhouse gas (GHG) emission equivalence is also reported.

Co-funded by West Basin Municipal Water District, this software tool was developed by SPI, a Carlsbad, CA based consulting engineering firm. The DORIS software can be downloaded from the WRF website at no cost at www.waterrf.org/Pages/Projects.aspx?PID=4446.

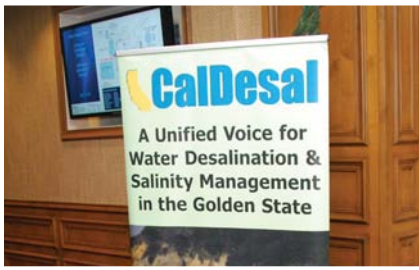
Request For Nominations – Ocean and Coastal Board Member For the *Ocean Science Trust Board of Trustees*

The Ocean Science Trust Board of Directors is seeking to appoint a member who will represent Ocean and Coastal Interest Groups in California pursuant to California Public Resources Code 36992. Qualified candidates should have a majority, if not all, of the following qualifications:

- Experience as trustees or directors of for profit or nonprofit corporations
- Experience managing budgets and fundraising;
- Experience related, but not limited to, sport fishing, commercial fishing, coast and ocean recreation and tourism, marine conservation, and ocean-dependent industries; and
- Demonstrated leadership in his/her field.

Nominations should be submitted electronically by **January 15, 2015**. More information can be obtained by e-mailing Skyli McAfee at Skyli.McAfee@calost.org. All selections will be made by the Secretary of the California Natural Resources Agency, in accordance with law.

Photos From Our Third Annual Conference



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