

A New Approach to Energy Savings for Water & Wastewater Agencies

Southern California Water Coalition

09/21/2023



The Water-Energy Nexus

- The U.S. Environmental Protection Agency (EPA) estimates **3-4% of national electricity consumption**, equivalent to approximately 56 billion kilowatts, or \$4 billion, is used to provide drinking water and wastewater services each year.
- Water and wastewater utilities are typically the largest consumers of energy in municipalities, often accounting for **30-40% of total energy consumed**.



Southern California REGIONAL ENERGY NETWORK



The Southern California Regional Energy Network (SoCalREN) was created to harness the collective power of residents, businesses and the public sector to achieve an unprecedented level of energy savings across Southern California.



Public Agencies



Residential



Financing



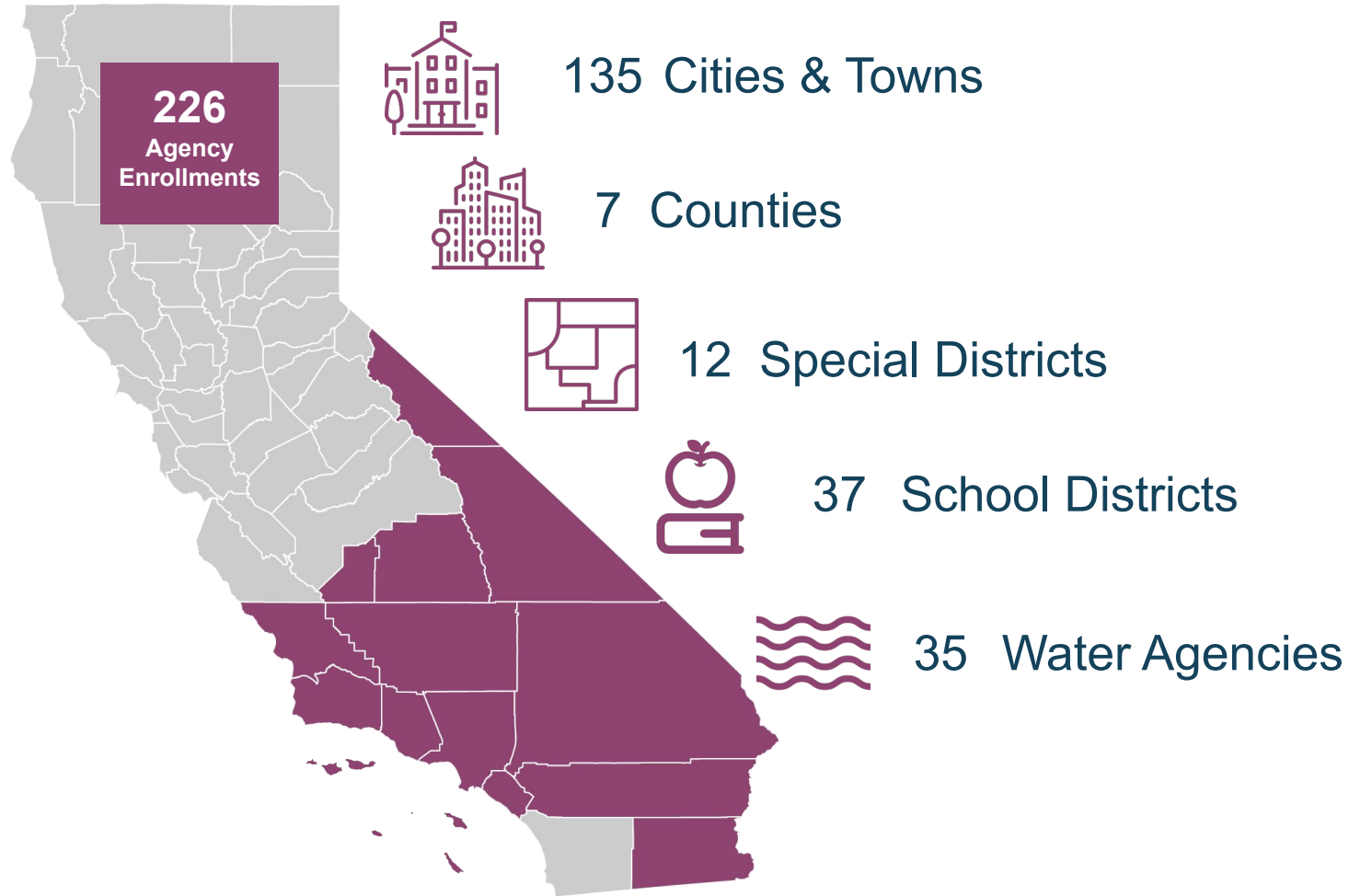
Workforce



The SoCalREN Public Agency Programs are administered by the County of Los Angeles and funded by California utility ratepayers under the auspices of the California Public Utilities Commission. Learn more at socalren.org.



Who's in the Network?



Note: SoCalREN Public Agency Programs are available in the highlighted counties in areas served by either Southern California Edison or Southern California Gas Company.



SoCalREN Enrolled Water/WW Agencies

*SCWC Board of Trustees
BOLD = SCWC Member

Bridgeport Public Utility District
Carpinteria Sanitary District
City of Los Angeles Bureau of Sanitation
Coachella Valley WD
Crescenta Valley WD
Cucamonga Valley WD
East Orange County WD
East Valley WD
Eastern Municipal WD
El Toro WD
Elsinore Valley Municipal WD
Foothill Municipal WD
Goleta Sanitary District

Idyllwild WD
Inland Empire Utilities Agency*
Irvine Ranch WD
June Lake Public Utilities District
Jurupa CSD
Lake Arrowhead CSD
Las Virgenes Municipal WD*
Montecito Sanitary District
Ojai Valley Sanitary District
Orange County Sanitation District
Palmdale WD
Pleasant Valley County WD

Running Springs WD
Santa Margarita WD*
South Orange County Wastewater Authority
Three Valleys Municipal WD
Tulare Irrigation District
United Water CD
Upper San Gabriel Valley Municipal WD
Western Municipal WD
Western Riverside County Regional Wastewater Authority
Yucaipa Valley WD

Enrolled Non W/WW Agency Members/Board of Trustees: County of Orange, County of San Bernardino, Mission Viejo, Chino, La Verne, Santa Ana, Signal Hill, Santa Monica, Ventura County, Covina, LA County



What can SoCalREN do for your agency?

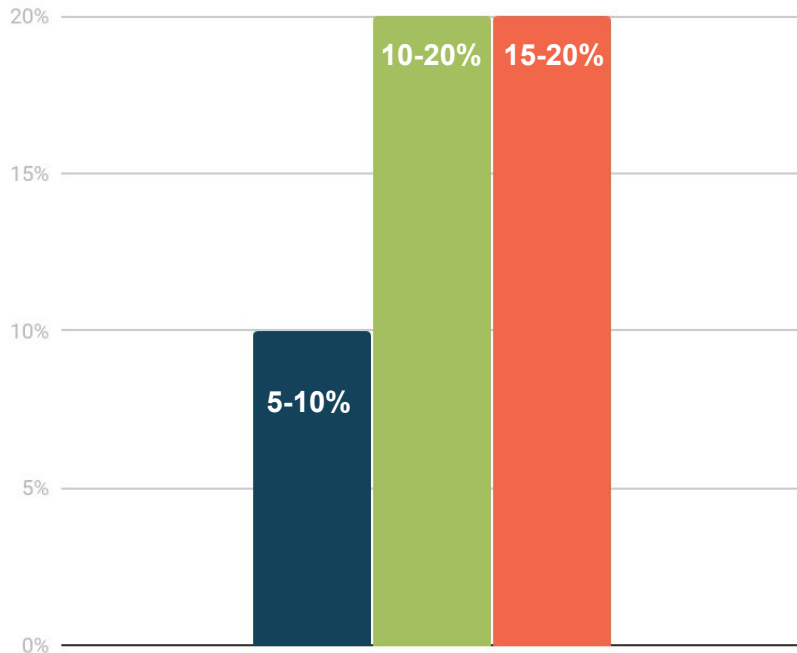
- ✓ **Project management support**
- ✓ **Technical support**
- ✓ **Access to project funding/financing**
- ✓ **Financial analysis and proposal support**
- ✓ **Procurement and construction phase support**
- ✓ **Network services**
- ✓ **Cash incentives**



Every enrolled agency receives a dedicated SoCalREN Project Manager that will support your energy efficiency projects from identification to construction completion!

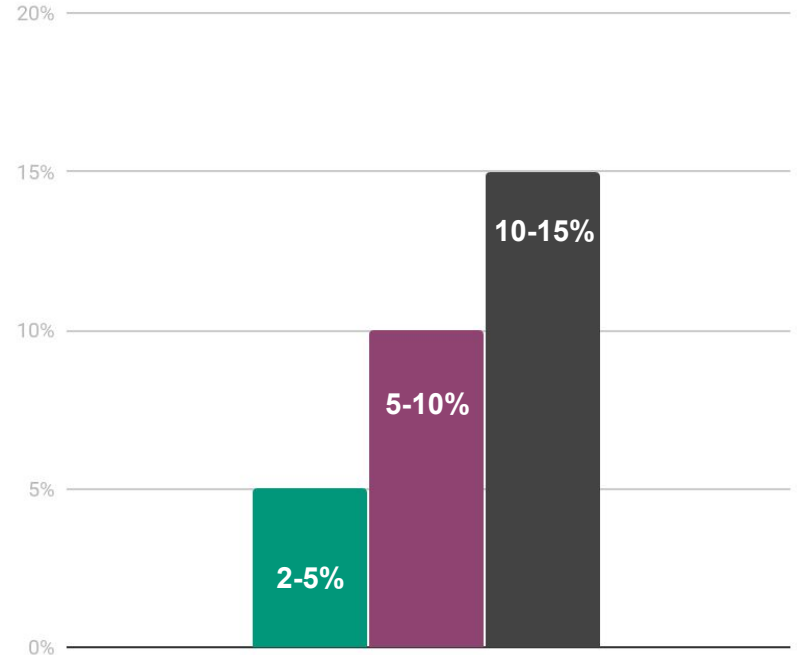


W/WW Energy Efficiency Strategies Yield Significant Energy Savings at the Meter



Water System Optimization

- Pump Sequencing
- Pump Overhaul
- Pump VFD Control



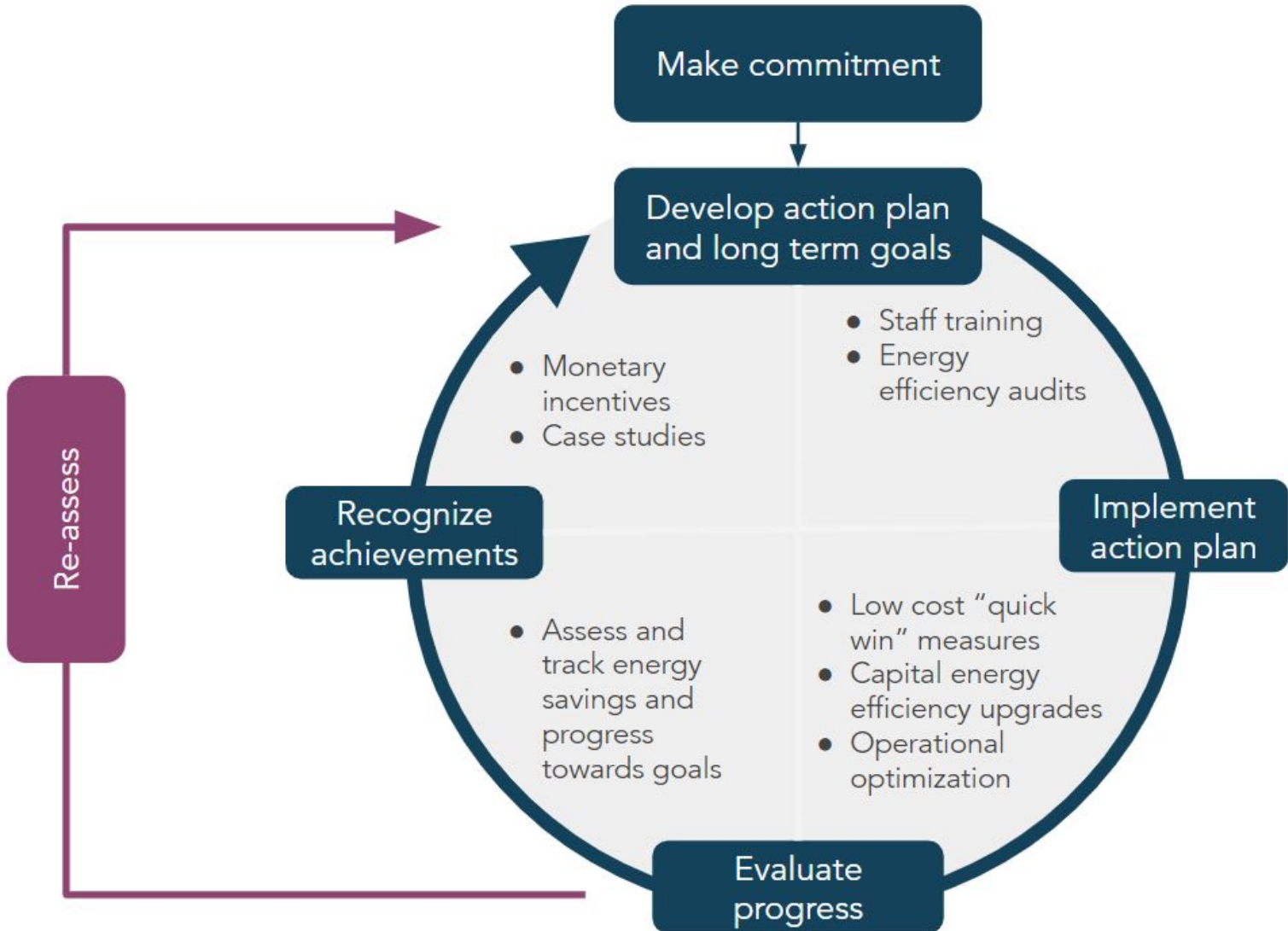
Water/Wastewater Treatment Plant

- RAS Optimization
- Ammonia/Nitrate Control, MLR Optimization, Efficient Mixing
- Blower Overhaul, High Efficiency Blower Replacement, High Efficiency Diffusers



SoCalREN Water & Wastewater Strategic Energy Management Program

New!



Thank you!

Lauren Seymour
Assistant Director of Energy Services
The Energy Coalition
lseymour@energycoalition.org
(949) 732-1081

