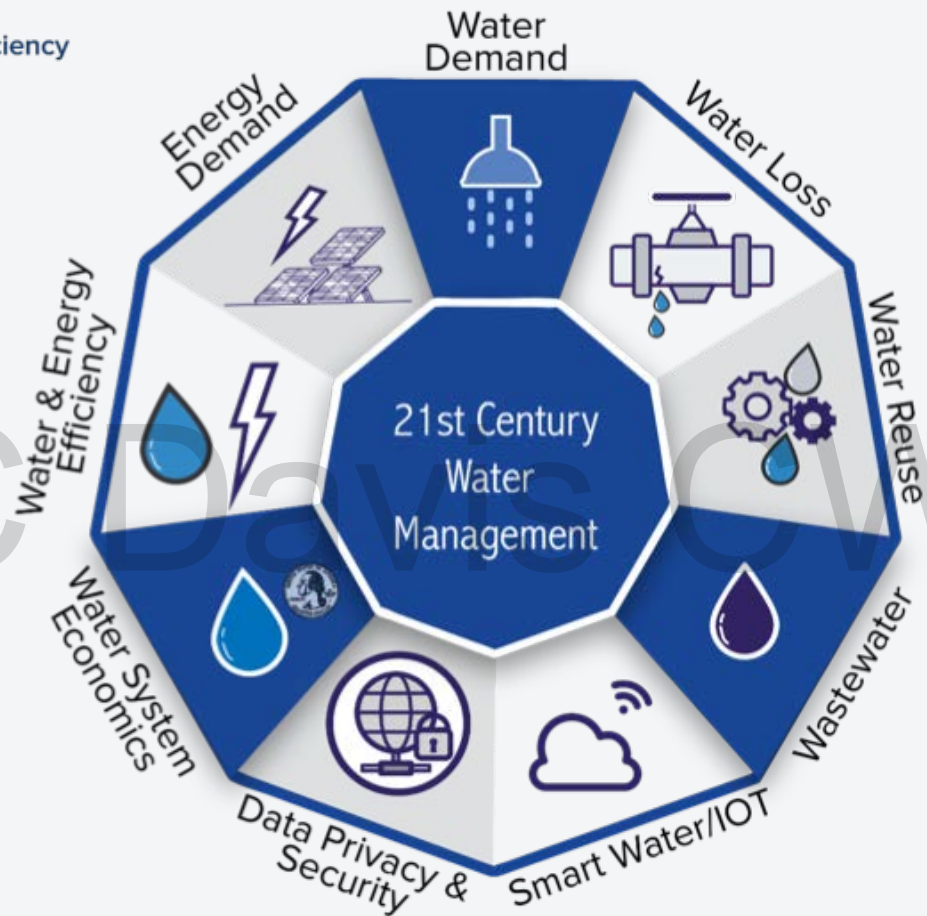
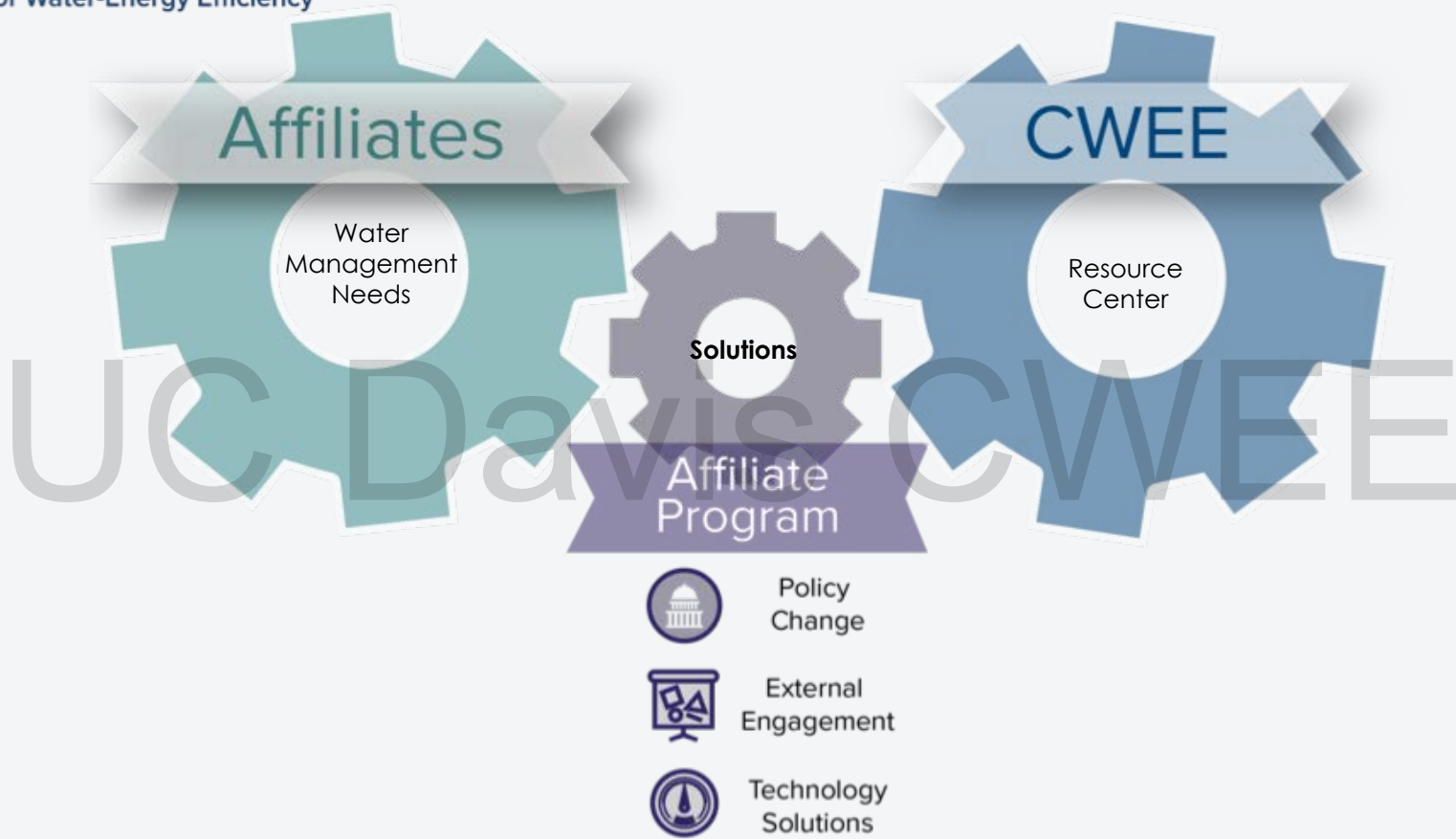


Solutions for 21st Century Water Systems

Center for Water-Energy Efficiency

University of California, Davis



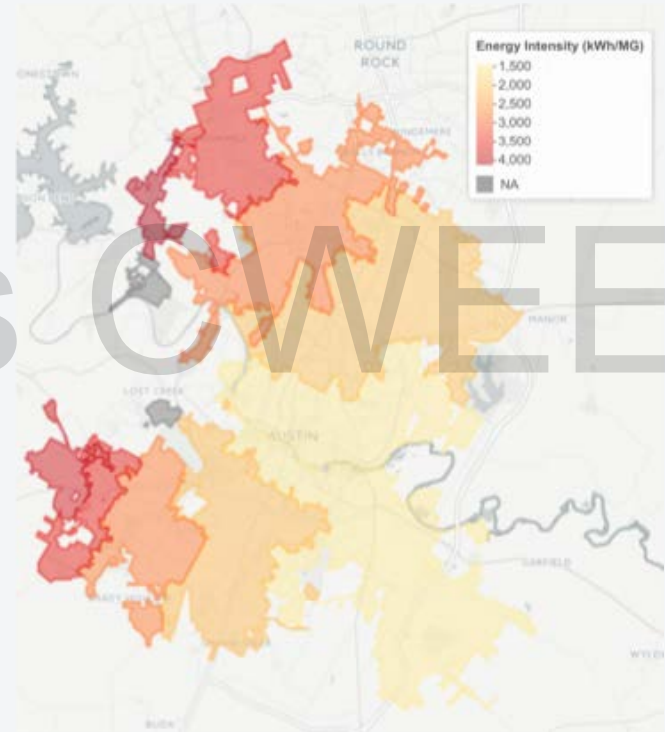


Affiliate Engagement Drives Research Solutions

Water Utility Energy Demand Management

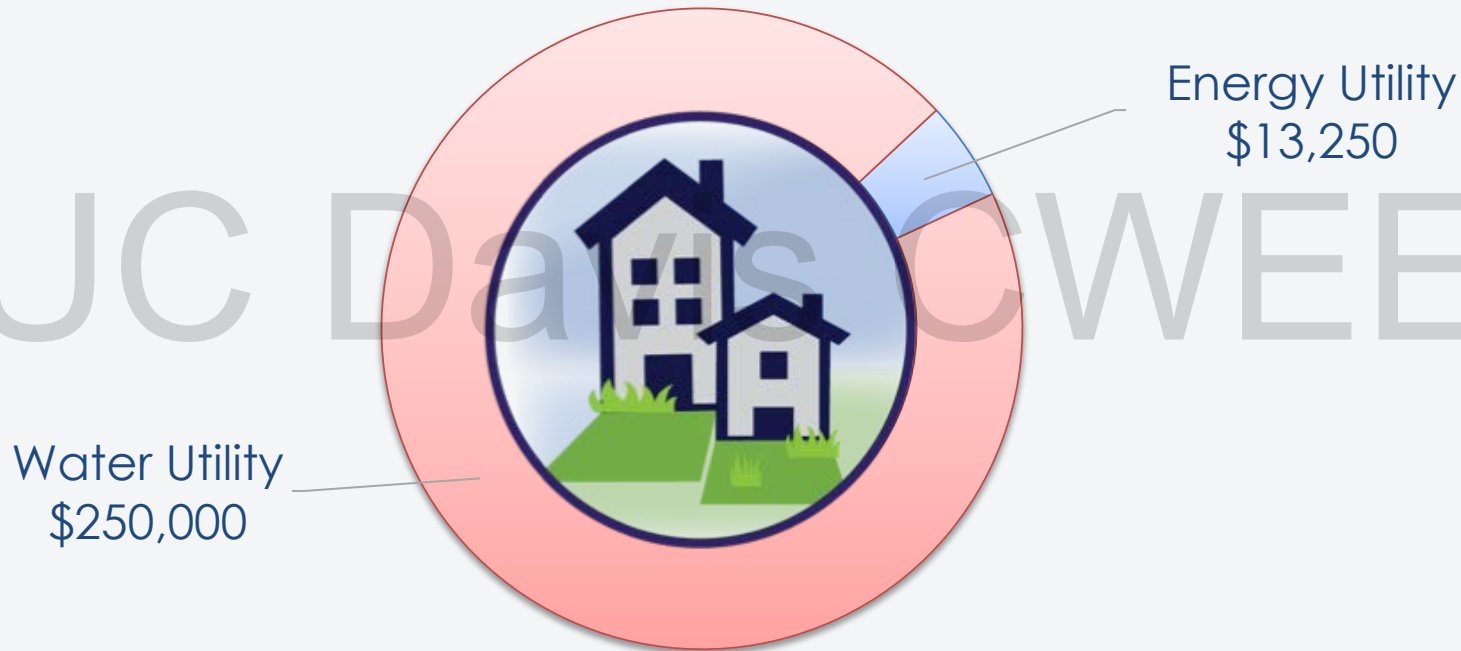


Common Energy Intensity Methodology



Upcoming Workshops (2018)

Turf Removal Program Cost Allocation



Water + Energy Utility Partnership?

YOUR HOME WATER REPORT

THIS IS AN INFORMATIONAL REPORT AND NOT A BILL.

Your WaterScore

AUG 1 TO SEP 30, 2015



Nice work, WaterSaver.
Take action to save even more.

Gallons Per Day (GPD)

14 CCF = 250 GPD

Efficient
Neighbors

135 GPD

You

174 GPD

Average
Neighbors

195 GPD



Replace
dishwasher with
an ENERGY STAR
certified model



9

GALLONS
PER DAY



46

THERMS
PER YEAR



\$41

DOLLARS
PER YEAR



Reduce hot water use



Did you know that heating
water is the second most
energy intensive activity in
your home?

Savings

1.3 - 2.2%

Savings

2.9 - 4.4%

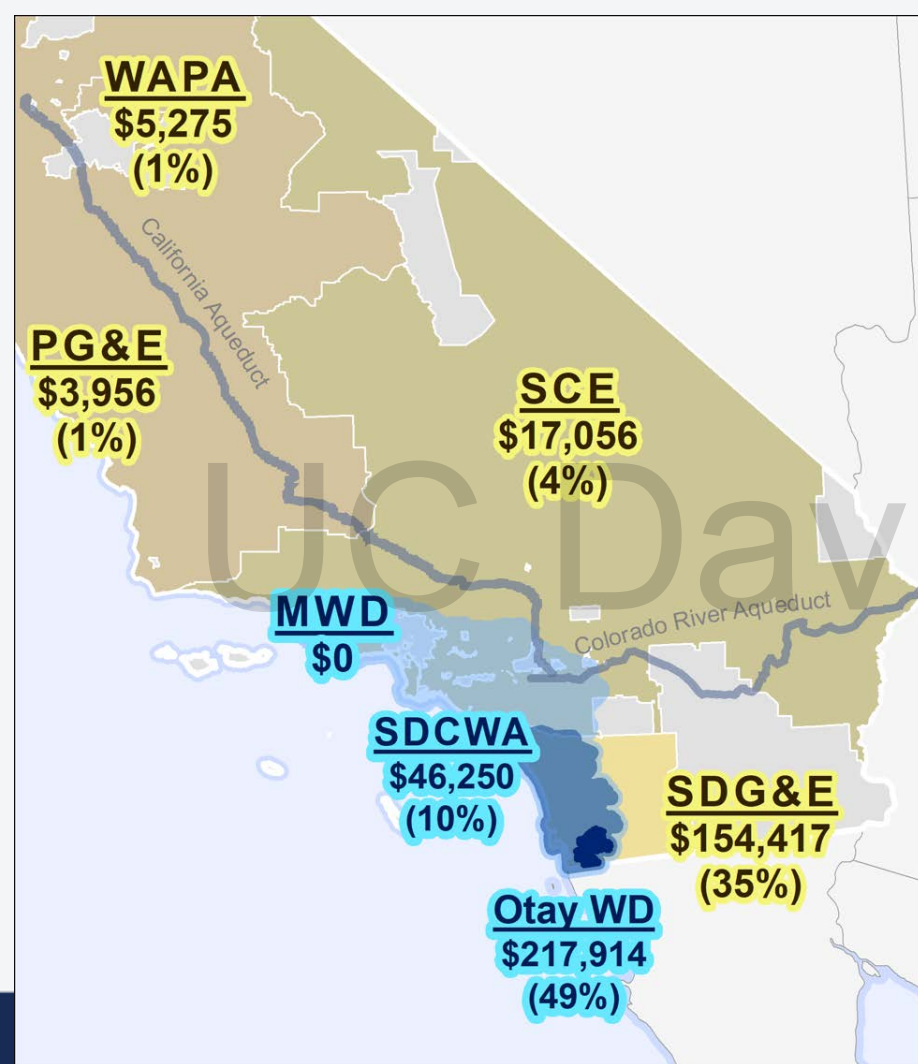
Indirect Energy Savings



Data Credits

- Water Service Areas: USBR & California DWR
- Electricity Service Areas: California Energy Commission
- Hydrography: USGS National Hydrography Dataset & Natural Earth

Otay Water & Energy Utilities

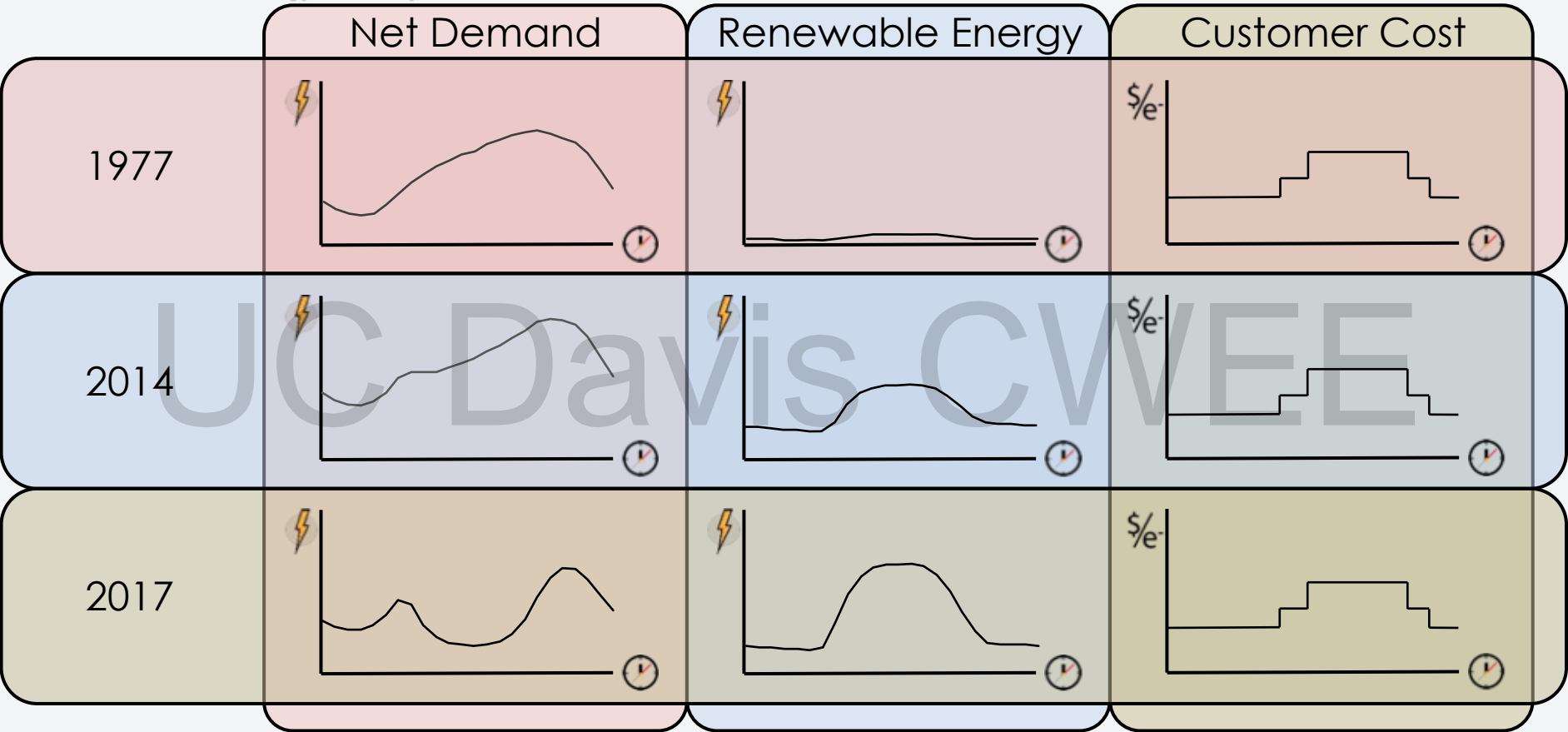


Direct Install Program



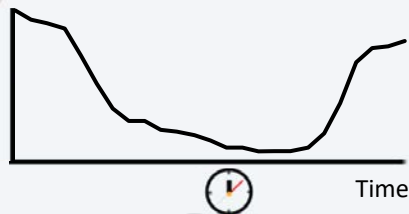
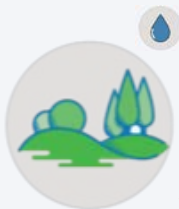
Total Cost: \$444,868

Who Benefits/Who Pays

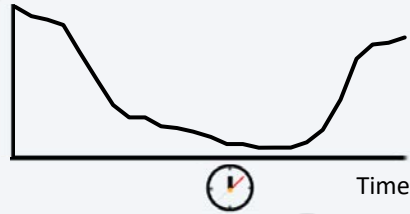


Rapid Change to the Net Energy Demand Profile of California

WATER DEMAND



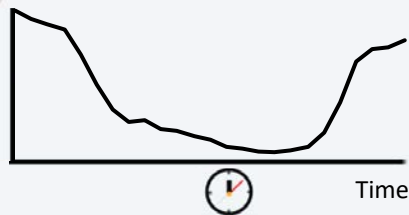
ENERGY DEMAND



PUMP SUPPLY ONLY



WATER DEMAND



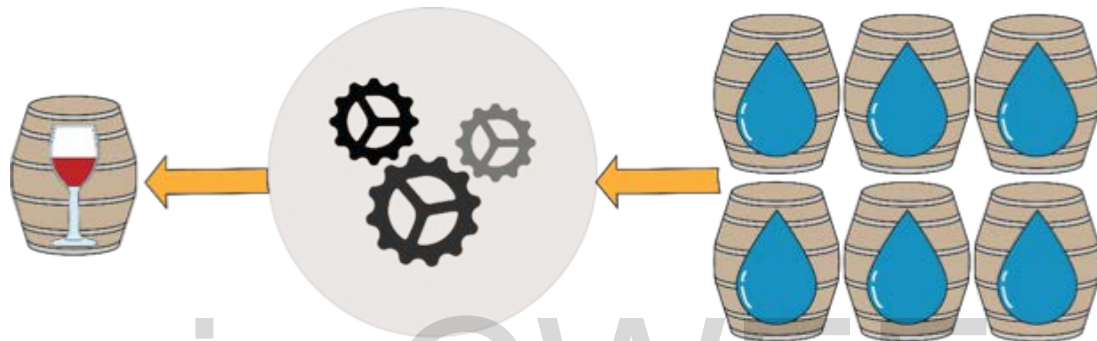
ENERGY DEMAND



ENERGY LOAD SHIFTING

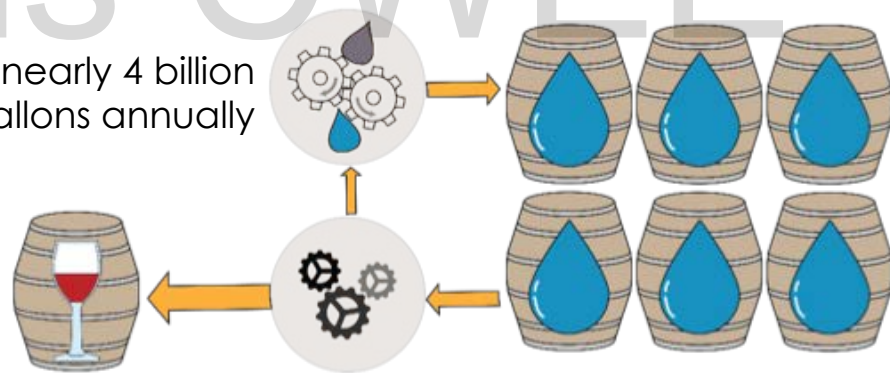


TYPICAL WINE PROCESSING

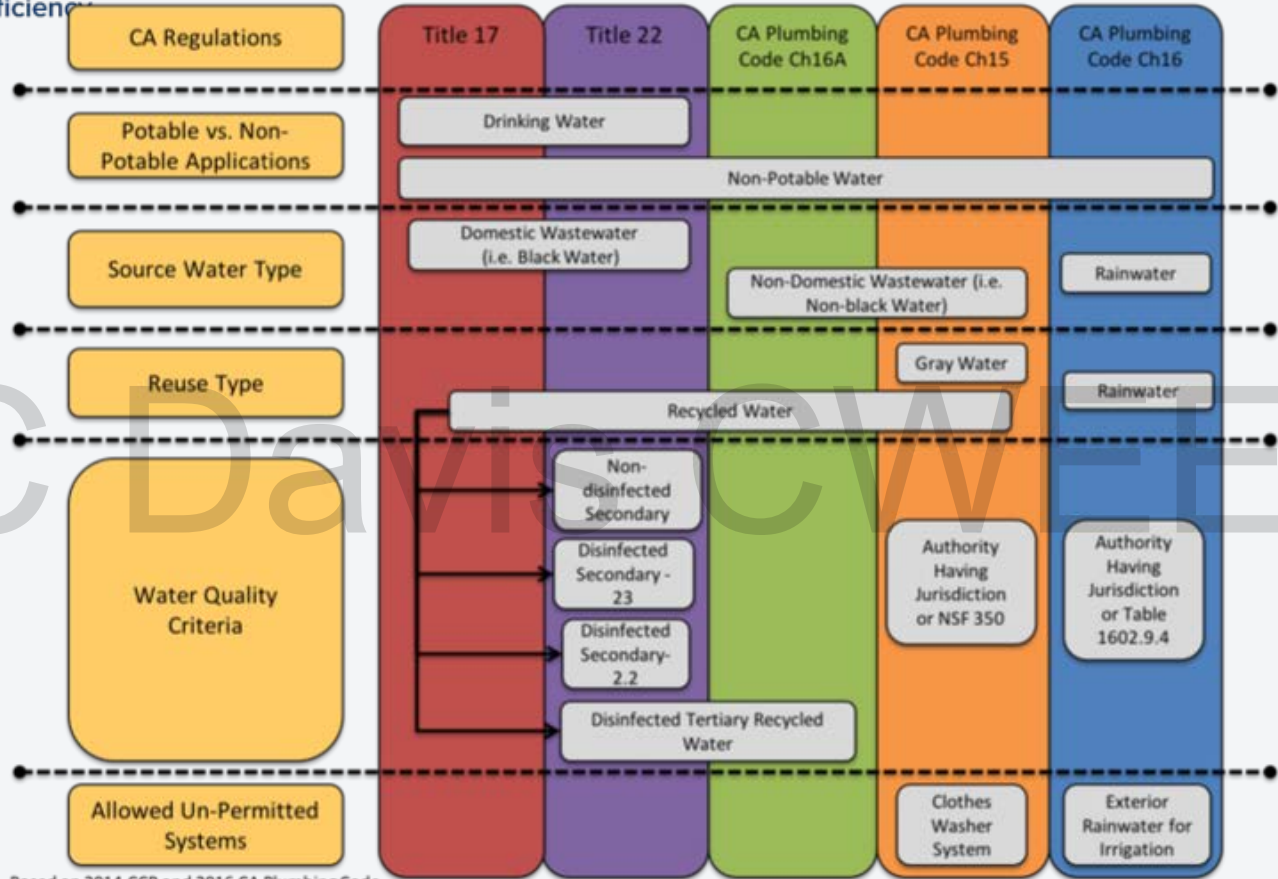


WITH INDOOR WATER REUSE

Saving nearly 4 billion
Gallons annually



Water Reuse Potential



Based on 2014 CCR and 2016 CA Plumbing Code

Policy is the Barrier to Implementation

SENATE BILL**No. 966****Introduced by Senator Wiener**

(Coauthors: Assembly Members Cristina Garcia and Rubio)

January 31, 2018

An act to amend Section 10295 of the Public Contract Code, and to add Article 8 (commencing with Section 13558) to Chapter 7 of Division 7 of the Water Code, relating to water quality.

LEGISLATIVE COUNSEL'S DIGEST

SB 966, as introduced, Wiener. Onsite treated nonpotable water systems.

Existing law requires the State Water Resources Control Board to establish uniform statewide recycling criteria for each varying type of use of recycled water where the use involves the protection of public health.

This bill would, on or before December 1, 2022, require the state board, in consultation with the California Building Standards Commission, to adopt regulations for risk-based water quality standards for the onsite treatment and reuse of nonpotable water, as provided. The bill would authorize the state board to contract with public or private entities regarding the content of the standards and would exempt those

*California*
LEGISLATIVE INFORMATION**SB 966**

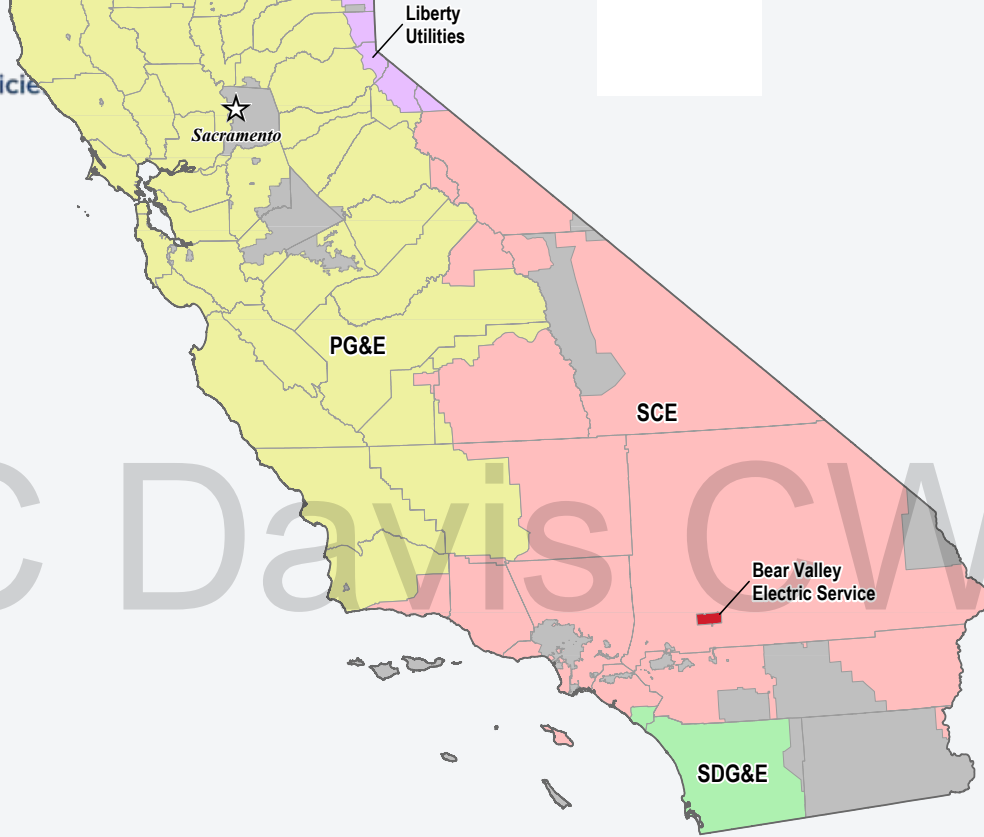
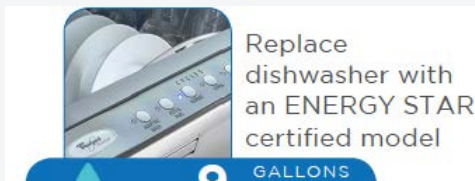
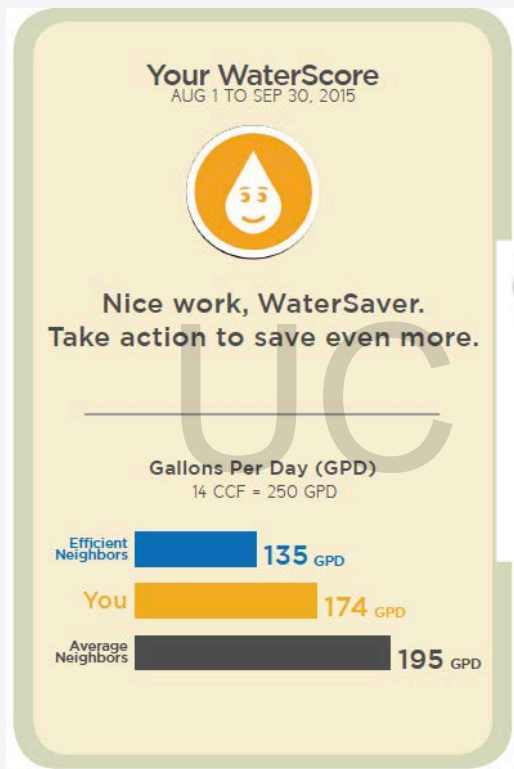


Figure 1.1 Regional Electric Service Areas (July 2015) (Source: EIA)

Who benefits



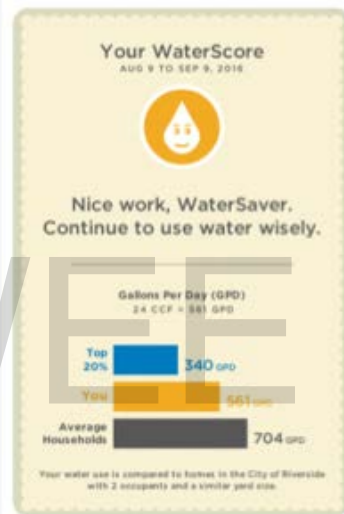
Reduce hot water use



Did you know that heating water is the second most energy intensive activity in your home?



low flow showerhead



Your personalized action plan

Selected based on your household characteristics, yard size, and historical water use.
[Log on to update your profile](#)

Save money and protect your home with the following actions:



Indirect Energy



~ 4 Billion Gallons/Year



6:1
Water:Wine



Water Reuse Potential