

# PARTNERSHIP UPDATE

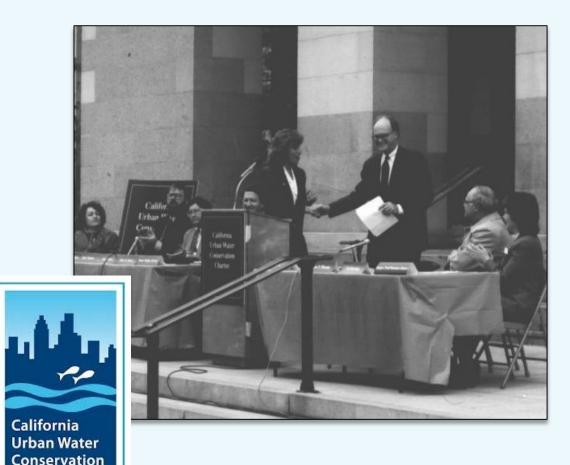
Regional Water Authority Water Efficiency Program Advisory Committee

May 8, 2018

# CA URBAN WATER CONSERVATION COUNCIL

Council

- Created in 1991 with an MOU
- Voluntary partnership
- Core purpose: Define and implement cost-effective urban water conservation BMPs
- Governance by consensus voting
- Incubated the Alliance for Water Efficiency
- Sunsetted December, 2016





# BUILDING ON THE COUNCIL'S SUCCESS

Continue Core Activities Change Governance & Role of Reporting

Evolve Into a New Organization



# THE DYNAMIC HAS CHANGED

- The Group 1 vs Group 2 block voting is gone
- No conservation reporting required
- North-South dynamic has been replaced with collaborative strategies
- Goal is to get every water agency the help they need to cope with emerging legislative requirements







# CALWEP BOARD OF DIRECTORS

**Amy Talbot**, Regional Water Authority (Chair)

**Lisa Morgan-Perales**, Inland Empire Utilities Agency (Vice-Chair)

**Greg Bundesen**, Sac Suburban Water District (Sec-Treasurer)

Joe Berg, Municipal Water District of Orange County

Charles Bohlig, East Bay MUD

Penny Falcon, LADWP

Justin Finch, Mesa Water District

Trathen Heckman, Daily Acts

Ken Jenkins, California Water Service

Paul Lierheimer, Rain Bird Corp.

Lisa Maddaus, Maddaus Water Management

Bill McDonnell, Metropolitan Water District

Sean McNeil, City of Santa Rosa

Carlos Michelon, San Diego County Water Authority

**Kendra Olmos**, UC Davis Center for Water-Energy Efficiency

Julie Ortiz, San Francisco Public Utilities Commission

Patrick Pilz, California American Water

**Carrie Pollard**, Sonoma County Water Agency

Rob Whipple, Western Municipal Water District



# I'M BACK!

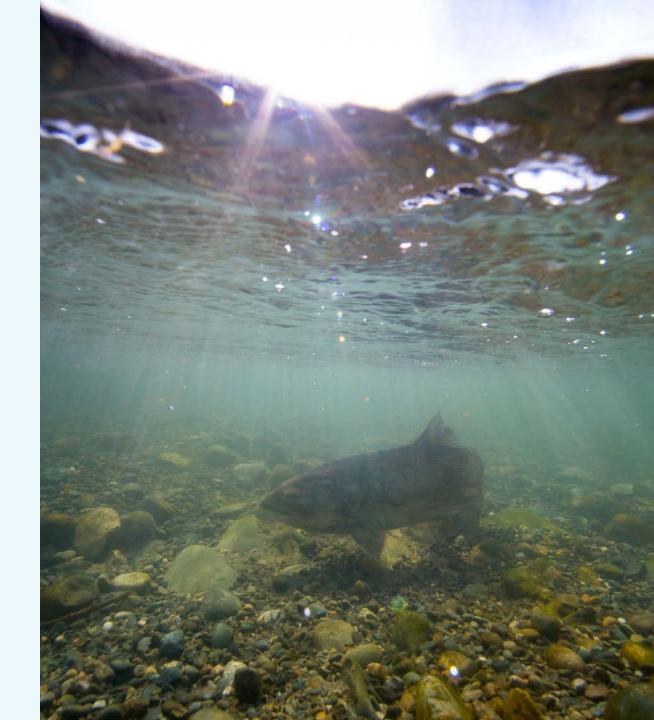
- Executive Director of the CUWCC from 1998-2007
- Active in CA water resource policy and planning efforts
- Former MWD employee
- Continuous southern CA resident since 1992
- Know CA water issues, stakeholders
- Founder and CEO of the Alliance for Water Efficiency with many California members and projects





# **OUR NEW FOCUS**

- California's unique issues, challenges and opportunities
- Getting the best resource and tools for our California membership
- Helping members meet new legislative/regulatory mandates (which will replace the original 20 x 2020 framework)



# WE ARE NOW OFFICIAL!

- New Articles of Incorporation filed with the Secretary of State
- Revised Bylaws adopted
- Permanent Board member selection completed
- Quarterly Partner Plenary meetings will be held as before
- Peer to Peer Training scheduled for May 30-31 in San Francisco
- Formal Launch Celebration March 7

# PLEASE JOIN US TO CELEBRATE THE LAUNCH OF THE



A Chapter of the Alliance for Water Efficiency

Wednesday, March 7, 2018 Vizcaya Sacramento 2019 21st Street, Sacramento, CA 95818

Reception 5:30 p.m. | Dinner 6:30 p.m.

Join us as we celebrate the vision, leadership, commitment and work to define a new Partnership and launch a new era for water efficiency in California

> Featuring Introductory Remarks by Steven Moore, Vice Chair California Water Resources Control Board

Music • Wine & Craft Beer Tasting • Dinner • Entertainment

\$75 per person members \$90 per person non-members

For ticket information and to RSVP, contact Michael Walker at michael@calwep.org or 916-552-5885



# LAUNCH WAS A SUCCESS!

- Daytime Plenary meeting
- Keynote speakers: Ellen Hanak, David Mitchell, Kendra Olmos
- Opening remarks at Dinner by Steven Moore, Vice Chair State Water Resources Control Board
- Congratulatory Resolutions from State Water Resources Control Board, State Senate
- Over 150 people attended

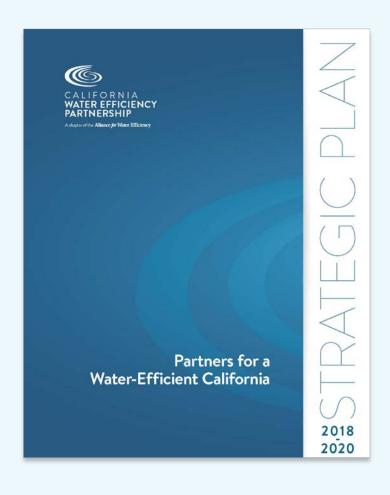




# GETTING THE PARTNERSHIP OUT THERE

- 2/14 Pacific Institute Advisory Council Meeting (San Francisco)
- 2/27 Water Efficiency Meeting of Santa Barbara/San Louis Obispo Counties
- 3/15 Imagine H2o/WEF Innovation Forum (San Francisco)
- 3/20 Water Conservation Showcase, Pacific Energy Center (San Francisco)
- 3/22 Water Policy Conference (Davis)
- 4/2 San Diego County Water Agency Meeting (San Diego)
- 4/19 UC Davis Energy Affiliates Forum (Davis)
- 5/3 Sustainable Water Resources Roundtable (Sonoma)
- 5/8 RWA Water Conservation Coordinators Group (Rancho Cordova)
- 5/8 ACWA Water Management Committee (Sacramento)
- 5/30-5/31 Peer to Peer (San Francisco)





# **NEW STRATEGIC PLAN**

- Adopted by Board February 7, 2018
- Printed copies being mailed to membership with dues thank you letters
- Dynamic plan that will grow with needed projects and initiatives



# STRATEGIC GOALS

- 1. Assist water supplier partners by providing as-needed information, expertise, and services that will enable them to meet municipal or utility-adopted water-use goals, as well as legislative and regulatory requirements.
- 2. Conduct and support research and evaluation efforts.
- 3. Transform markets for water-use efficiency-related products and services.
- 4. Assume a leadership role in building a statewide community of organizations focused on conservation, efficiency, resilience of water systems and watersheds, and leveraging the water-energy nexus.
- 5. Retain existing partners and increase overall membership.
- 6. Build organizational capacity to meet strategic planning goals.
- 7. Define advocacy principles and activities to meet strategic planning goals.



# PARTNERSHIP LISTENING TOUR

- 4 Online Discussion boards: Wholesalers, northern retailers, southern retailers, smaller agencies
- 2 Boards week of April 9; 2 Boards week of April 16
- 4 In-depth telephone Interviews to be scheduled
- Quantitative Member Survey will be developed based on this input
- Analysis of data
- Final Report for September Board meeting



# **HOW WILL THE DUES WORK?**

- Joint membership dues invoiced from Sacramento Office
- In 2018 there is a 10% reduction in CalWEP dues to encourage join membership
- Combined dues are the same as the individual separate dues
- No longer an option to just join one
- Goal is to reduce the overall joint dues over time as economies of scale kick in



# PROVIDING VALUE TO MEMBERS

- More technical assistance will be available
  - Landscape assistance from Sacramento
  - Conservation planning assistance from Chicago
- More research projects can be undertaken
  - Pooling funds means more money goes into joint research
  - Research agenda can be jointly managed
- Advocacy on the national level
  - Saving the Water Sense program
  - Tax-exempt status for water efficiency rebates
  - Provide a template policy for California-level advocacy



# NEW CALWEP PROGRAMS

- Rate Case Study (LADWP)
- AMI-AMR Standards for Water Utilities bidding and operation
- Sustainable Landscape Market
   Transformation Plan: Accelerating the transition to multi-benefit, sustainable landscaping in California
- Online Wiki Tool Box and web site rebuild
- Peer to Peer Training
- Water-Energy programs





# SUSTAINABLE LANDSCAPING MARKET TRANSFORMATION - HIGHLIGHTS

# Marketing & Research

- CBSM survey implementation and findings (Participants: Long Beach Water Dept., EBMUD, and Rancho California Water District)
- Findings to be published this spring

# **Training**

- CBSM training webinars (planned for 2018)
- Qualified Water Efficient Landscaper (QWEL) training partnership (Train-the-trainer support)



# PEER TO PEER

- Builds and feeds the California network
- Creates opportunities for dynamic, interactive information exchanges for water conservation and efficiency professionals
- Promotes the latest successful practices and programs



Tools and Training for Water Conservation Professionals



# WATER AND ENERGY COLLABORATION

- Frank Logue and Kendra Olmos of the UC Davis Center for Water and Energy Efficiency are partners with CalWEP
- Joint interest in helping water utilities better calculate embedded energy in water for funding and credit
- 5 competing methodologies (models by AWE, CPUC/Navigant, UC Davis, DWR, and Climate Registry)
- Need one consistent methodology to enable funding
- Proposal for Spring Workshops to train water utilities
- Goal is to get funding and credit for GHG emission reduction!



# CREATING THE CHAPTER WITH AWE

- Bringing together two of the country's major organizations focused on water efficiency
- Allows the open sharing of combined technical resources and research
- All members of CalWEP will automatically be members of AWE and vice versa
- 2018 membership invoice for CalWEP dues include membership in AWE
- Full membership benefits of both organizations for one membership price





# MEMBERSHIP BENEFITS

- Both organizations will now provide joint membership benefits
- Leverages membership dollars, grant funding, and staff resources
- All work will be openly shared
- Benefits graph shows where member benefit occurs
- Will be mailed with 2018 invoices

Customized Animated Videos trat		2.0
communicate the value of water service and explain why rates may rise even as we conserve.		
Sustainable Landscaping Resources:		-
Market Transformation Framework:		
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Efficiency: A series of community-based social marketing resources for agency outdoor.		
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explain why rates may rise even as we conserve.		
Sustainable Landscaping Resources:		
Market Transformation Framework: Interventions for overco-many some of the most common berriers to installing saste nable andiscopes and efficient;	•	
ROI Calculator webinar and workshop proceedings: Introductory training for four calculator tools, designed to synthesize		
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Commercial Kitchens Water Efficiency Guide: A best practices water efficiency guide set great for the restaurant manager, including information for creating an action plan.		
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Graywater Cost-Effectiveness Study: An analysis of when it is dost-offective for residentia: homeowners to retrofic their homes with graywater systems. Case examples are given.		ė
Resources to Educate Customers About the Value of Water:  - Home Water Works website and Household Water Couleator with manker-web footburns to be o outcomers assess their water use and get personalized figs.  - Never Water molis campaign to engage		•
the build in a constructive diclogue the composition to use water wisely.  Opportunities to Highlight Successes and Leadership through AME's Everyplary Program within a series, AME reweighters and other channels that needs the relationship water.		

TOOLS, INITIATIVES and EXPERTISE, continued

Customized Animated Videos that

CalWEP Alliance



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7:000.0

# SHARED AWE PROGRAMS

- Water Conservation Tracking Tool
- Financing Sustainable Water:
  - Rates Planning Assistance (Handbook and Model)
  - Consumer Messaging and Videos
  - Avoided Cost Case Studies
- Commercial Kitchens Water Efficiency Guide
- Outdoor Water Savings Studies
- Net Blue Water-Neutral Development Ordinance and Offset Methodology
- Graywater Cost-Effectiveness Study









# AWE PROJECTS TO SHARE WITH CALWEP



# AWE POLICY ADVOCACY

- WaterSense® authorization
- Tax-free water conservation rebates
- Eliminating accounting barriers to efficiency investments
- Water/energy nexus research
- Standards and codes
- Testifying in Congress
- Assisting states with their legislative priorities on efficiency







# **AWE TRACKING TOOL**

Water Conservation Scenario Planning Tool

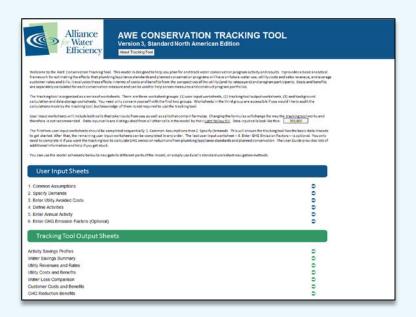
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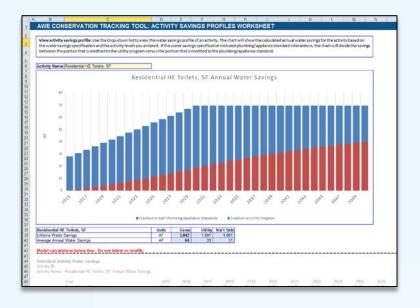
Built by David Mitchell of MCubed

Designed for CA water agency tracking needs

Version 3 launched in 2016

Will be updated to measure any emerging Conservation Framework requirements





Specify demands: On this worksheet you specify your baseline demand forecast. This is forecasted demand before any adjustment for planned conservation activities. This forecast is important because it provides the reference for calculating the percentage change in demand from planned conservation, as well as benefits of planned conservation and the impact of conservation on rates and revenue

## **Peak Demand Season**

requirements.

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56 57 Most utilities have low and high demand seasons. The high demand season typically correlates with the summer months. The tracking

	Duto	Duto	Dujo	
Peak Demand Season	1-May	30-Sep	152	42%

Begin

**Baseline Demand Forecast** 

The baseline demand forecast is the projection of demand before any adjustments for planned conservation activities. Use the following table to enter the baseline demand forecast for each customer class. Also enter the forecast of baseline system loss. Do not adjust system loss for future leak detection if leak detection will be included as a planned conservation activity in the model. Doing so will result in double counting savings from leak detection.

## Options for Generating the Baseline Demand Forecast: 1. Enter your own forecast values (recommended)

- 2. Enter values for first year and extrapolate future values using population forecast (use only if Option 1 not possible)
- 3. Enter values for first year and extrapolate future values using accounts forecast (use only if Option 1 not possible)

Peak Season % of Annual: In the column to the right of the table, enter the percentage of annual demand occurring in the peak season.

C Enter my own forecast			C Extrapola	te using popu	ulation forecas	it	Extrapo	ts				
Annual Sales	Units	2015	2020	2025	2030	2035	2040	2045	2050	% of Annua		
Single Family	AF	43,779	44,404	45,655	47,531	49,407	50,033	51,283	51,909	60%		
Multi Family	AF	3,324	3,371	3,466	3,609	3,751	3,799	3,894	3,941	50%		
CII	AF	13,458	13,650	14,035	14,611	15,188	15,380	15,765	15,957	48%		
Irrigation	AF	6,729	6,825	7,017	7,306	7,594	7,690	7,882	7,979	80%		
Not in use	AF											
Not in use	AF											
Not in use	AF											
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Not in use	AF											
Total Sales	AF	67,289	68,251	70,173	73,057	75,941	76,902	78,825	79,786	59%		
System Loss*	AF	6,729	6,825	7,017	7,306	7,594	7,690	7,882	7,979	59%		
System Production	AF	74,018	75,076	77,190	80,363	83,535	84,592	86,707	87,764	59%		

## Adjust Baseline Demand Forecast for Future Effects of Plumbing/Appliance Standards

Plumbing/appliance standards for toilets, clothes washers, and dishwashers will affect future indoor water use. The tracking tool includes models that calculate the magnitude of these effects. You can have the tracking tool adjust your baseline demand forecast for these effects by selecting "Yes" from the drop-down list. If your baseline demand forecast already adjusts for these effects, or you do not want the tracking tool to make this adjustment, select "No.

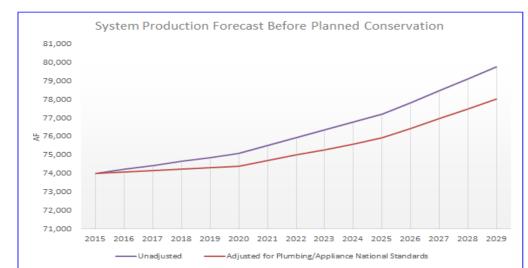
Adjust demand forecast for future effects of plumbing/appliance standards?

Yes

Scenario "English Units Example" loaded into model on 7/27/2016 7:58:58 PM

Manage Scenarios

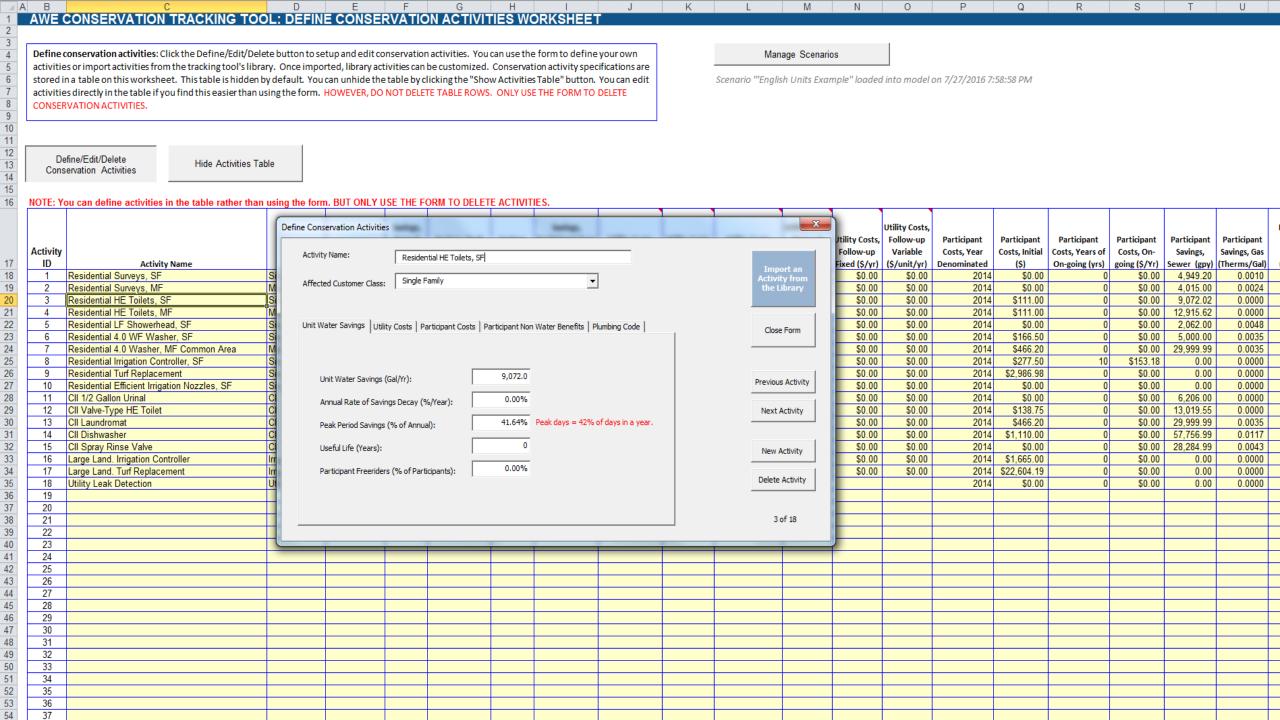
Number of years to display in chart



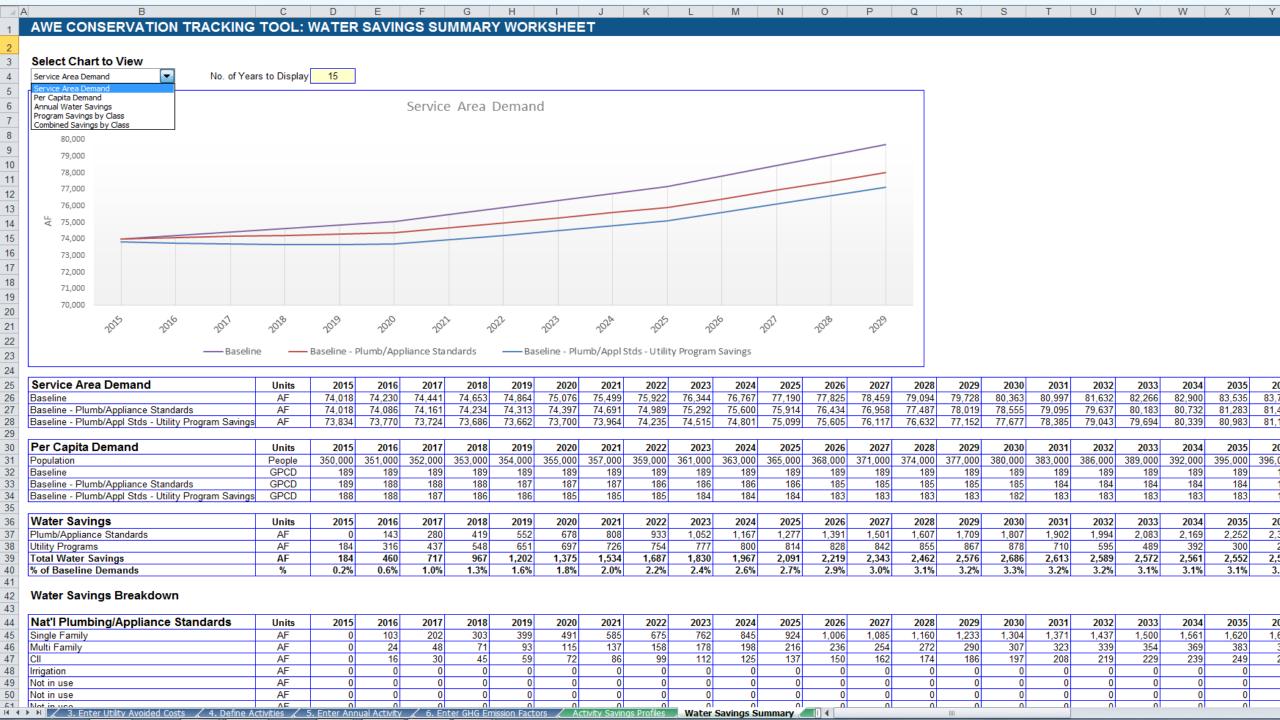


\*System Loss includes apparent losses, and real losses.

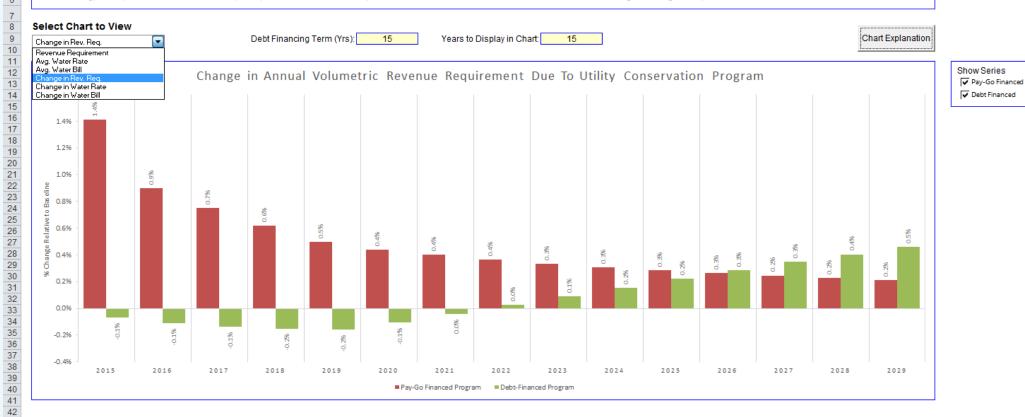
The American Water Works Association (AWWA) Water Loss Control Committee, discourages the characterization



_	В	С	D		J	K	L	M	N	0	Р	C
1		<b>AWE COI</b>	NSERVATION TRACKING TO	OL: ENTE	ER ANNI	JAL CO	NSERV	ATION A	CTIVIT	YWORK	(SHEET	Г
2												
	F-t				:4			.:::	- <b>6</b> :     -	4 D-f:	A -4::4:	
3	Enter annual conservation activity: Use this worksheet to enter the annual activity levels for the conservation activities you defined on the 4. Define Activities worksheet. You can enter activity through the end of your forecast period, but this is not required. It is okay to enter activity for shorter periods. You also											
4	can start an activity in any year in the forecast period. You do not have to start it at the beginning. It is also okay to skip years, for example if an activity is											
5	operated every other year, or every third year. If you have annual conservation program costs that are not accounted for in your activity definitions, you can											
	enter these costs in the Annual Program Overhead Cost table. Any overhead cost you enter will be incorporated into the utility benefit cost analysis.											
6	enter these costs in the Annual Program Overhead cost table. Any overhead cost you enter will be incorporated into the duffity benefit cost analysis.											
7												
8	Enter Annual Conservation Activity											
	Activity ID		Activity Name	2015	2016	2017	2018	2019	2020	2021	2022	
10			Residential Surveys, SF	250	1000	1000	1000	1000	1000	1000	1000	
11			Residential Surveys, MF	100	1000	1000	1000	1000	1000	1000	1000	
12		•	Residential HE Toilets, SF	1000	1000	100	100	100	1000	1000	1000	
13			Residential HE Toilets, MF	500	100	100	100	100	100	100	100	
14		-	Residential LF Showerhead, SF	1000	1000	1000	1000	1000	1000	1000	1000	
15			Residential 4.0 WF Washer, SF	100	100	100	100	100	100	100	100	
16			Residential 4.0 Washer, MF Common Area	25	25	25	25	25	25	25	25	
17		-	Residential Irrigation Controller, SF	50	50	50	50	50	50	50	50	
18			Residential Turf Replacement	25	25	25	25	25	25	25	25	
19			Residential Efficient Irrigation Nozzles, SF	25000	25000	25000	25000	25000	25000	25000	25000	2
20			CII 1/2 Gallon Urinal	100	100	100	100	100	100	100	100	
21			Cll Valve-Type HE Toilet	100	100	100	100	100	100	100	100	
22	13		CII Laundromat	50	50	50	50	50	50	50	50	
23	14	CII	CII Dishwasher	10	10	10	10	10	10	10	10	
24	15	CII	CII Spray Rinse Valve	100	100	100	100	100	100	100	100	
25		Irrigation	Large Land. Irrigation Controller	25	25	25	25	25	25	25	25	
26		Irrigation	Large Land. Turf Replacement	2	2	2	2	2	2	2	2	
27	18	Utility	Utility Leak Detection	1	1	1	1	1	1	1	1	
60												
61												
62	Annual F	Program Ove	erhead Cost (2014 dollars)	2015	2016	2017	2018	2019	2020	2021	2022	
63	Enter additi	onal program c	ost not included in activity definitions	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25
64	Enter additional program cost not included in activity definitions   \ \ \psi_23,000   \ \ \psi_23,000											
63 64 65 66 67												
66	Model calc	ulation tables	below this line. Do not delete or modif	y <u>.                                    </u>								
67		<b></b>	<b></b>	<b></b> _	<b></b>		<b></b> _				<b></b>	
	Effective	Conservati	on Activity									



Review revenue requirement and rate impacts: This worksheet calculates the impact of planned conservation on annual revenue requirement, average rates, and average bills. It assumes the volumetric revenues generated by the baseline demand and rates forecasts correspond to the utility's volumetric revenue requirement. It then adjusts forecasted annual water sales and revenue requirement using the water savings, conservation program cost, and utility avoided cost estimates calculated earlier. The adjusted revenue requirement equals the baseline revenue requirement plus annual conservation program cost minus annual avoided water supply cost. The adjusted average volumetric rate equals adjusted revenue requirement divided by adjusted annual water sales. The adjusted average monthly volumetric bill equals adjusted revenue requirement divided by number of accounts divided by 12. Calculations are done for two alternative financing strategies for planned conservation. The first strategy treats planned conservation as an operating expense. The model assumes planned conservation is paid for in the year it occurs (Pay-Go financed). The second strategy treats planned conservation as a capital expense. The model assumes planned conservation is debt financing term using the drop-down list.



## Baseline Volumetric Revenue Requirement, Average Rate, & Average Bill

## Baseline Water Sales Forecast (from 2. Specify Demands)

Customer Class	Units	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
Single Family	AF	43,779	43,800	43,827	43,851	43,880	43,913	44,069	44,229	44,393	44,560	44,731	45,024	45,321	45,620	45,922	4
Multi Family	AF	3,324	3,309	3,295	3,281	3,268	3,257	3,254	3,252	3,250	3,250	3,250	3,259	3,269	3,279	3,290	
CII	AF	13,458	13,481	13,504	13,528	13,553	13,578	13,641	13,705	13,769	13,833	13,898	14,000	14,103	14,207	14,310	1
rrigation	AF	6,729	6,748	6,767	6,787	6,806	6,825	6,864	6,902	6,940	6,979	7,017	7,075	7,133	7,190	7,248	
Not in use	AF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Not in use	AF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Not in use	AF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Not in use	AF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Not in use	AF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	AF	67,289	67,338	67,394	67,447	67,507	67,572	67,827	68,087	68,352	68,622	68,896	69,359	69,826	70,297	70,771	7
	Single Family Multi Family CII rrigation Not in use	Single Family         AF           Multi Family         AF           CII         AF           rrigation         AF           Not in use         AF	Single Family         AF         43,779           Multi Family         AF         3,324           CII         AF         13,458           rrigation         AF         6,729           Not in use         AF         0           Not in use         AF         0	Single Family         AF         43,779         43,800           Multi Family         AF         3,324         3,309           CII         AF         13,458         13,481           rrigation         AF         6,729         6,748           Not in use         AF         0         0           Not in use         AF         0         0	Single Family         AF         43,779         43,800         43,827           Multi Family         AF         3,324         3,309         3,295           CII         AF         13,458         13,481         13,504           rrigation         AF         6,729         6,748         6,767           Not in use         AF         0         0         0           Not in use         AF         0         0         0	Single Family         AF         43,779         43,800         43,827         43,851           Multi Family         AF         3,324         3,309         3,295         3,281           CII         AF         13,458         13,481         13,504         13,528           rrigation         AF         6,729         6,748         6,767         6,787           Not in use         AF         0         0         0         0           Not in use         AF         0         0         0         0	Single Family         AF         43,779         43,800         43,827         43,851         43,880           Multi Family         AF         3,324         3,309         3,295         3,281         3,268           CII         AF         13,458         13,481         13,504         13,528         13,553           rrigation         AF         6,729         6,748         6,767         6,787         6,806           Not in use         AF         0         0         0         0         0           Not in use         AF         0         0         0         0         0           Not in use         AF         0         0         0         0         0           Not in use         AF         0         0         0         0         0           Not in use         AF         0         0         0         0         0           Not in use         AF         0         0         0         0         0	Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825           Not in use         AF         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0           Not in use         AF         0         0         0         0 </th <th>Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864           Not in use         AF         0         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0         0         0         0           Not in use         AF         0</th> <th>Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069         44,229           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641         13,705           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902           Not in use         AF         0         0         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0         0         0         0           Not in use         AF         0</th> <th>Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069         44,229         44,393           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252         3,250           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641         13,705         13,769           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902         6,940           Not in use         AF         0</th> <th>Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069         44,229         44,393         44,560           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252         3,250         3,250           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641         13,705         13,769         13,833           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902         6,940         6,979           Not in use         AF         0</th> <th>Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069         44,229         44,393         44,560         44,731           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252         3,250         3,250         3,250           CII         AF         13,458         13,481         13,504         13,528         13,553         13,678         13,641         13,705         13,769         13,833         13,898           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902         6,940         6,979         7,017           Not in use         AF         0</th> <th>Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,560 44,731 45,024 44,000 47,000</th> <th>Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,660 44,731 45,024 45,321 45,021</th> <th>Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,560 44,731 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 45,021</th> <th>Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,560 44,731 45,024 45,321 45,620 45,922 44,131</th>	Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864           Not in use         AF         0         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0         0           Not in use         AF         0         0         0         0         0         0         0         0         0           Not in use         AF         0	Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069         44,229           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641         13,705           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902           Not in use         AF         0         0         0       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43,913         44,069         44,229         44,393         44,560           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252         3,250         3,250           CII         AF         13,458         13,481         13,504         13,528         13,553         13,578         13,641         13,705         13,769         13,833           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902         6,940         6,979           Not in use         AF         0	Single Family         AF         43,779         43,800         43,827         43,851         43,880         43,913         44,069         44,229         44,393         44,560         44,731           Multi Family         AF         3,324         3,309         3,295         3,281         3,268         3,257         3,254         3,252         3,250         3,250         3,250           CII         AF         13,458         13,481         13,504         13,528         13,553         13,678         13,641         13,705         13,769         13,833         13,898           rrigation         AF         6,729         6,748         6,767         6,787         6,806         6,825         6,864         6,902         6,940         6,979         7,017           Not in use         AF         0	Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,560 44,731 45,024 44,000 47,000	Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,660 44,731 45,024 45,321 45,021	Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,560 44,731 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 44,131 45,024 45,321 45,620 45,021	Single Family AF 43,779 43,800 43,827 43,851 43,880 43,913 44,069 44,229 44,393 44,560 44,731 45,024 45,321 45,620 45,922 44,131

Utility Revenues and Rates / Utility Costs and Benefits / Water Loss Comparison / Customer Costs and Be

_ / A	С	D	Е	F	G	Н	1	J	K	L	M	N
115												
116	<b>Utility Cons</b>	servation Program NPV and B/C F	Ratio (2014	Dollars)								
			NPV	B/C	7							
117	Class	Activity Name	(\$)	Ratio								
	Single Family		\$ 501,434	1.4								
119		Residential Surveys, MF (		0.9	4							
			\$ 902,096	2.8	4							
121			\$ 339,173 \$ 631,409	4.0 9.7	4							
122 123		Residential LF Showerhead, SF Residential 4.0 WF Washer, SF		0.8	-							
		Residential 4.0 WW Washer, SI		1.5	┨							
125	Single Family		\$ 6,229	1.0	1							
		Residential Turf Replacement (		0.8	1							
127	Single Family	Residential Efficient Irrigation Nozzles, SF		2.6	1							
128			\$ (70,739)	0.9	7							
129	CII		\$ 796,960	3.0								
130	CII		\$ 134,642	1.5								
131	CII		\$ 306,609	3.1	_							
	CII		\$ 908,611	5.2	4							
133	Irrigation	Large Land. Irrigation Controller (		0.8	4							
134 135		, i	\$ (191,996) \$ (60,482)	0.3	4							
168			\$ (60,462) \$ 5,933,658	0.9 <b>1.7</b>	-							
					+							
169 170	Total With Pr	rogram Overhead	\$ 5,608,315	1.6	J							
172 173	Select Cha											
174 175	Unit Costs Sorted NPV Sorted		Co	nconvotion	Activitios	Sorted by Utili	ity Unit Cost					
176 177 178	B/C Ratio Sorted					ınit cost is defi		/n)				
179	Doni	idential LF Shower head, SF										
180	101											
181		CII Spray Rinse Valve										
182		Residential HE Toilets, MF										
183		CII Dishwasher										
184		CII Valve-Type HE Toilet										
185 186	Residential Effic	cient Irrigation Nozzles, SF										
187		Residential HE Toilets, SF										
188	Decidential / OV	Vasher, MF Common Area										
189	NGIGCITIAI 4.0 V											
190		CII Laundromat										
191		Residential Surveys, SF										
192	Resident	tial Irrigation Controller, SF										
193		Utility Leak Detection										
194		Residential Surveys, MF										
195		CII 1/2 Gallon Urinal										
196	1											
197		Land. Irrigation Controller										
198 199	Resi	dential 4.0 WF Washer, SF										
200	Res	sidential Turf Replacement										
201	Larg	ge Land. Turf Replacement										
											-	

50 \$500 \$1,000 \$1,500 \$2,000 \$2,500 \$3,000 \$3,500 \$4,000

E F G H I J K L M N O

## Н I J K L M AWE CONSERVATION TRACKING TOOL: Water Loss Control Unit Cost Comparison

Water loss control programs to reduce system physical losses can be one of the more cost-effective ways utilities can save water. The chart on this worksheet shows how your conservation measures rank compared to the range of typical cost for water loss control programs.

## Unit Cost Range for Typical Utility Water Loss Control Program

	Units	2014\$	Rank
Low	\$/AF	\$375	4 of 20
High	\$/AF	\$575	9 of 20

4 5 6

11 12 13

14

## Unit cost ranking of water loss relative to your defined conservation measures

11 of your conservation measures have unit costs above the high-end of the water loss control cost range.



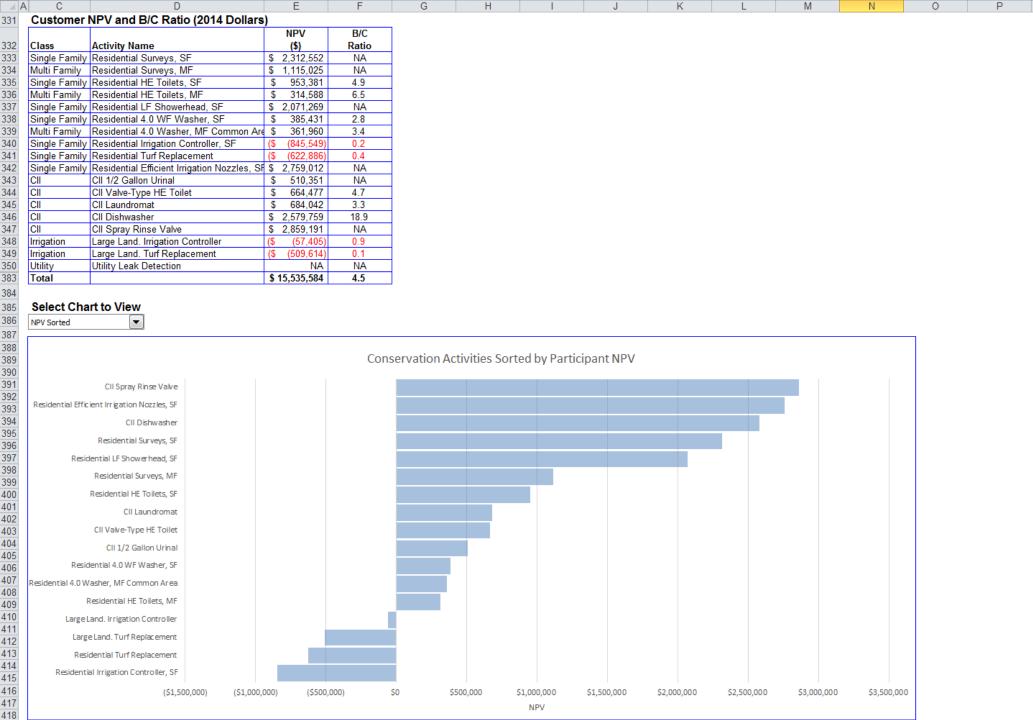
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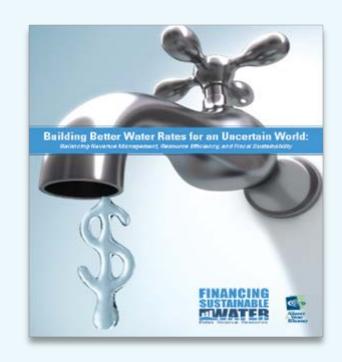
# FINANCING SUSTAINABLE WATER

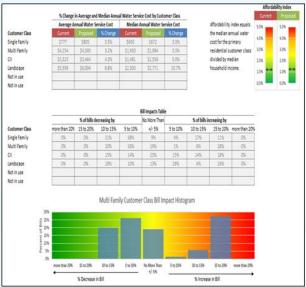
Building Better Rates in an Uncertain World: A Handbook to explain key concepts, provide case studies and implementation advice

AWE Sales Forecasting and Rate Model: Innovative, userfriendly tool to model scenarios, solve for flaws, and incorporate uncertainty into rate making

Tools developed by Tom Chesnutt and avid Mitchell

FinancingSustainableWater.org: Web-based resources to convene the latest research and information in one location











HOME

WATER EFFICIENCY

**BUILDING RATES** 

IMPLEMENTATION

FISCAL SUSTAINABILITY

HANDBOOK

RESOURCE SEARCH



## Rates, Revenue, Resources,

Financing Sustainable Water is an initiative of the Alliance for Water Efficiency that was created to provide practical information to guide utilities from development through implementation of rate structures that balance revenue management, resource efficiency and fiscal sustainability. Headquartered in Chicago, the Alliance serves as a North American advocate for water efficient products and programs, and provides information and assistance on water conservation efforts. Learn More



## WATER MANAGERS

Sustainable financial management guidance



## **ELECTED OFFICIALS**

Set your water utility up for success



## CONCERNED CITIZENS

Learn how you can help create a sustainable water future



## RATES HANDBOOK

**Building Better** Rates for an Uncertain World



## RECENT NEWS

- Water or Water Service?
- Demand Forecasting 101 »

## FEATURED RESOURCES

- Case Study **Budget-based Rates**
- Case Study Hover Example New case study title here



## MEDIA

Get key facts on today's water challenges



### Water: What You Pay For



A4WE

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1,924







Share







Good Question: Why Are My Water Rates Going Up?



A4WE

► Subscribe 632

862 views











### **NET BLUE**

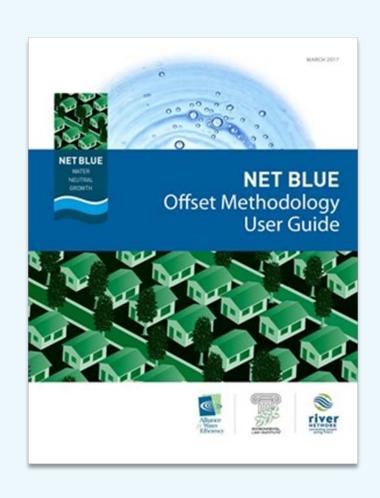
Water Neutral Development Ordinance and Offset Methodology

Based on successful examples, many in California

Launched May 1, 2017

Methodology Workbook updated to Version 2.2

Looing for a California community to adopt a water-neutral development ordinance using Net Blue tools and resources



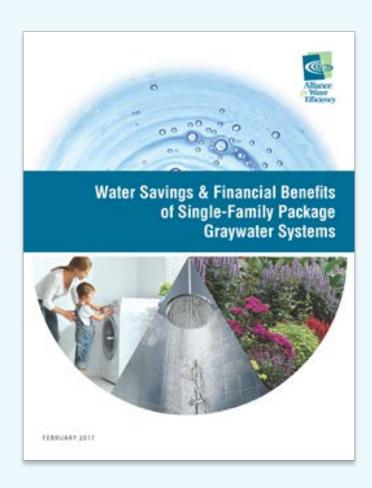


### **GRAYWATER STUDY**

Evaluates the water savings potential and cost-effectiveness of residential graywater residential retrofit systems

Includes easy-to-follow steps for determining the cost-benefit ratio for utility rebate programs

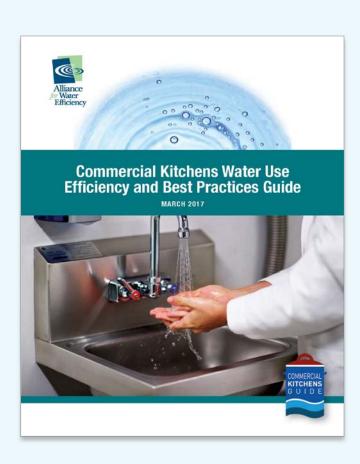
Recorded webinar available





### COMMERCIAL KITCHENS GUIDE

- Prepared by the Food Service Technology Center in San Ramon
- Target audience is restaurant manager
- Member-only availability
- Free PDF
- Printed copies for \$6 apiece, bulk order pricing can be arranged





### TRANSFORMING WATER REPORT

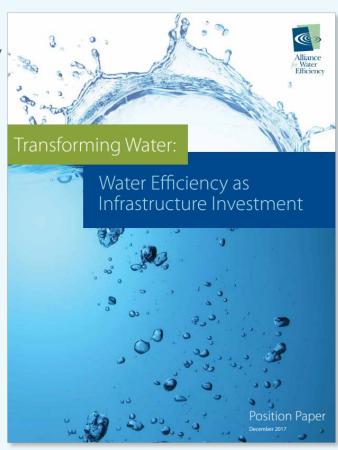
Evaluates the national economic benefit of water efficiency infrastructure investments

Updated version of original 2008 Report

Prepared by David Mitchell of MCubed

Released December 14, 2017 with recorded webinar

Distributing printed copies to lawmakers and AWE members (including CalWEP!)





## **OUTDOOR WATER STUDIES**

### **Landscape Transformation**

- Work underway by A&N Technical Services
- 15 participating and funding agencies, mostly from CA
- Expected completion Summer 2018

### **Drought Restrictions**

- Work underway by Western Policy Research and Maddaus Water Management
- 14 participating and funding agencies, mostly from CA
- Expected completion Fall 2018





# IMAGINE H<sub>2</sub>O PROJECT

Non-Potable Water Policy for California – \$25,000 prize awarded to SFPUC and AWE

Work is completed

Held three stakeholder workshops in November 2017

Report recently released

Related legislation recently introduced in CA (SB 966, 1/28/2018)



We have the opportunity to create a new water management paradigm by incorporating innovative strategies to conserve, reuse and diversify our water supply. One of those strategies is integrating smaller, decentralized, onsite water systems into our broader centralized systems. Onsite water systems can be tailored to the needs of the local community and implemented at a variety of scales, including building, block, district, and region with the appropriate safeguards in place.

The San Francisco Public Utilities Commission (SFPUC) is partnering with Alliance for Water Efficiency (AWE) to hold workshops to discuss a model statewide policy for onsite water systems collecting and treating alternate water sources (graywater, blackwater, rainwater, stormwater, and foundation drainage) in commercial, multi-family and mixed-use buildings in California. The policy was create to guide regulators on establishing water quality criteria for onsite non-potable water systems and provide a consistent management approach to onsite non-potable water systems that can be transferable from community to community. The policy is included in the document Guidebook for Developing and Implementing Regulations for Onsite Non-potable Water Systems, issued by the National Blue Ribbook Commission.



#### There will be three meetings in California.

The San Francisco and Sacramento area workshop participants will learn about San Francisco's Non-potable Water Program and recent research and draft model regulations for onsite non-potable water systems. To register for the workshop in the San Francisco, click here.

#### For Sacramento area, click here. SAN FRANCISCO RAY AREA

Onsite Non-Potable Water Systems Workshop

Tuesday, November 7, 2017 9:30 a.m. to 12:30 p.m. PST San Francisco Public Utilities Commission Second Floor O'Shaughnessy Conference Room 525 Golden Gate Ave (at Polk St) San Francisco CA 94102

#### SACRAMENTO AREA

Onsite Non-Potable Water Systems Workshop

Water Systems Workshop
Thursday, November 9, 2017
9:30 a.m. to 12:30 p.m. PST
Sacramento Area Sewer District
South Community Room
1205/1207 Valley Oak
10060 Goethe Rd
Sacramento, CA 95827

Parking: Park on Goethe Road not employee lot.

To register for the workshop in the Los Angeles area, click here.

#### LOS ANGELES AREA

Onsite Non-Potable Water Systems Workshop Wednesday, November 8, 2017 9:00 a.m. to 4:30 p.m. PST TreePeople Conference Center

12601 Mulholland Dr Beverly Hills, CA 90210



### 2017 STATE SCORECARD

AWE Water Efficiency and Conservation Scorecard

Final report launch and webinar on March 21

### California is the top scorer!

Additional resources will be created and distributed

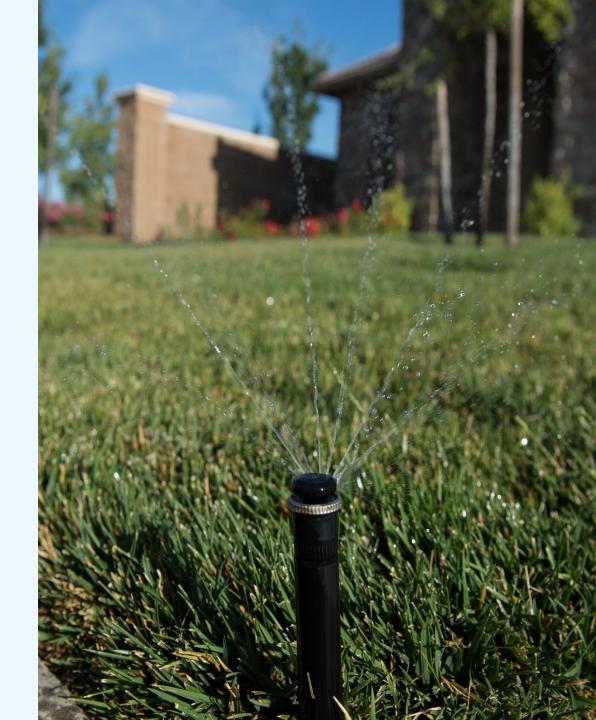
- ✓ State summary pages
- ✓ Factsheets
- ✓ Maps





## **JOINT RESEARCH**

- Combined research plan with AWE
- Outdoor Water Savings Studies with major California participation
- Cooling Tower Study with major California participation
- Avoided Cost Studies of California communities showing the benefits of conservation



### **CONSUMER INFO**

- www.H2ouse.org is no longer site has been hijacked by a private vendor! Remove your links to it!
- www.home-water-works.org can be a substitute if you need a consumer website
- Save Our Water website no longer has a calculator and HWW is very accurate – ET database by zip code
- Can be customized to your utility





### **NEWS: WATERSENSE STILL IN JEOPARDY**

- Trump FY19 Budget still "zero funds" WaterSense
- AWE Letter to EPA Administrator Pruitt asking him to fund it
- \$2 million a year in discretionary EPA funding
- Congress approved FY18 budget on March 23 to avoid government shutdown – and WaterSense funding is in it!
- But Congressional authorization still necessary to allow Congress to directly fund WaterSense
- Best option is S 1137: Clean Safe Reliable Water Infrastructure Act
- Bipartisan negotiations to add Water Resources Development Act amendments to S 1137
- WaterSense authorization language is included





## PEER TO PEER TRAINING MAY 30-31

PACIFIC ENERGY CENTER SAN FRANCISCO



A chapter of the Alliance for Water Efficiency

716 10th Street, Suite 200 Sacramento, CA 95814 (916) 552-5885





# QUESTIONS?



716 10th Street, Suite 200 Sacramento, CA 95814 (916) 552-5885

