

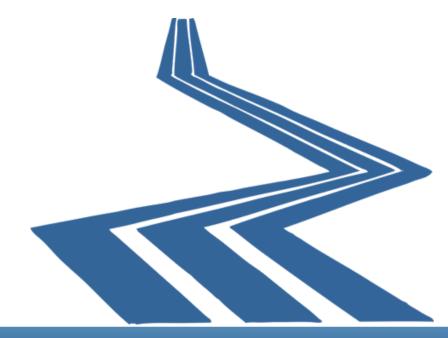
A VOICE FOR WATER EFFICIENCY IN NORTH AMERICA

- Our mission is to promote an efficient and sustainable water future
- Over 500 member organizations in 200 watersheds delivering water to 50 million
 water users
- Our network and research focus is on smart solutions and Efficiency First



ROADMAP FOR THIS SESSION

- Overview and introduction to the Tracking Tool
- Walkthrough of Tracking Tool Version 3.0
- Sneak peak of Version 4.0
- Questions/Discussion, possible live demo of Tracking Tool Version 3.0



WHAT IS THE TRACKING TOOL?

- An Excel-based model that can be used to evaluate the costs and benefits of water conservation programs
- Includes detailed User Guide
- Graphic model outputs which are usable for manager and board presentations
- A free resource for AWE and CalWEP members



HOW DO I GET A FREE COPY OF THE TRACKING TOOL?





Water Conservation Tracking Tool

Section Trates Europeyation Printers, Physicis, and Evaluation

The Tracking Too's an Excellenced model that can evaluate the water savings, costs, and between if comprovation programs for a specific water string, either English or Matrix units. Using information emissed into the Tracking Tool from the utility's suntain, it provides a standardized methodology for water savings and largelle cost accounting, and includes a Many of one defined comprovation activities from which users can toold conservation programs.

Water utility managers can use the Tracking Tool in a variety of ways to ad their eater resource planning and see efforci.

- Develop-long-range conservation plans. Construct conservation purchase contacting up to 10 separate conservation program activities.
- Quickly compare alternative concervation resources in terms of their system covings potential, Impact on system covin, and potential banefits to oblity customers.
- Took the implementation suggestation, contained and benefits of actual consumulation activities over time.
- Evaluate a utility's changing revenue requirement with conservation.
- Extrate the voluction in EHS ensusces resulting from planting-energy codes and conservation program artists.

The Tracking Tool counts the cavings achieved from national ficture and appliance standards. Due to differing standards among states, upon on select from the serions depending on their location California, Colorado, Seinga, Texas, and of other states.

How the Allianus WIT Help

The Affance will provide a detailed Duer Stude with the Tool, as well as one ("Unious of five technical assestance to any member using the Tool. Please let us know about your experiences with the Tool the would like to feature successful examples of the Tool in use on our exist site, so please let us know how it has excelled for any

Member-Only Benefit

The Fool is available free of charge to AMC manifests, as a member only benefit, but it is subject to your agreement to the Water Conservation Sealing Tool Terms of the first sheads, sign in below to gain access to the Terms of the form. Not a turned manifest out and

HISTORY OF THE AWE TRACKING TOOL

- Version 1.0 first released in 2009
- Has been through a series of updates: Version 1.0, 1.1, 1.2, 2.0, 3.0... and 4.0 is on the way!
- Has had over 400 users
- AWE has worked directly with many of its members





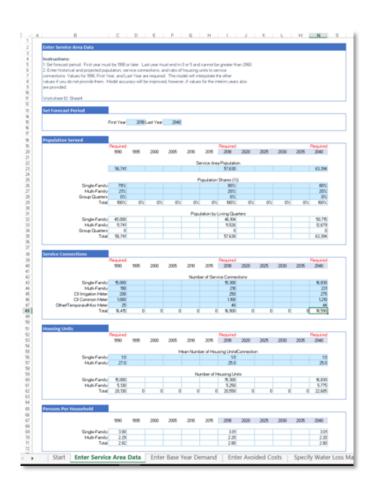






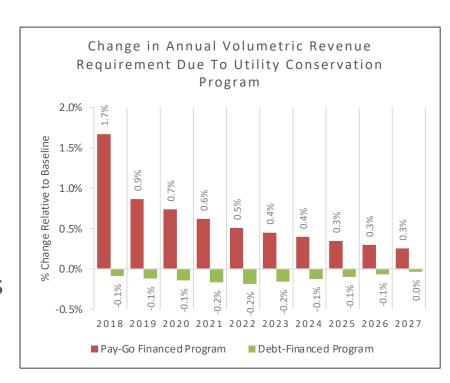
VERSION 4.0

- New separate California edition to address water conservation framework legislation with targets for utilities
- New water loss functionality
- New conservation activities in the resource library
- New interface
- Huge thank you to all of the PAC members!



COOL THINGS TO KNOW ABOUT THE TRACKING TOOL

- •Includes pre-defined conservation measures and provides flexibility for customization
- Estimates passive savings from plumbing code
- Estimates conservation impact on a utility's revenue requirement, bills and rates
- Estimates energy and GHG emission reductions from conservation for customer and utility perspective
- •And more...



LET'S TAKE A TOUR



AWE CONSERVATION TRACKING TOOL: COMMON ASSUMPTIONS WORKSHEET

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Information Needed to Calculate Water Savings for Landscape Measures in Library

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AWE CONSERVATION TRACKING TOOL: SPECIFY DEMANDS WORKSHEET

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Peak Demand Season

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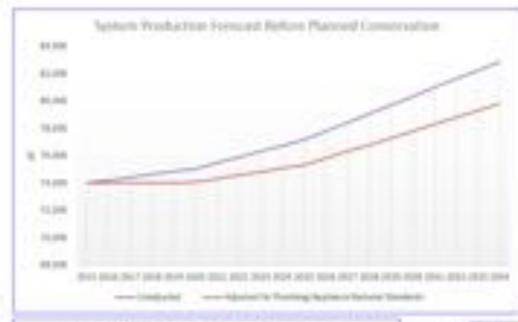
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Adjust Baseline Demand Forecast for Future Effects of Plumbing/Appliance Standards

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Adjust demand losecost for falces offects of planting appliance standards?

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Demand Forecasts with Plumbing/Appliance Standards Adjustment

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Tracking Tool Utility Avoided Cost Calculator

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ANE CONSERVATION TRACKING TOOL: DEFINE CONSERVATION ACTIVITIES WORKSHEET

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AWE CONSERVATION TRACKING TOOL! ENTER ANNUAL CONSERVATION ACTIVITY WORKSHEET

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Annual Program Overhead Cost (2018 dollars)	2010	2010	200	2010	ports	2626	akin	2600	- India	2004	Jeses	200 600 mm	2621	2626	AGN	2600
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Model calculation below below this line. To not delete or finally

Effective Conservation Activity

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0	Multi-Pa	mily 5	extente UF Shorethead, MF	799	40	K00	- 800	1,000	1,386	1.409	1,690	1,95	2,986	1,199	2.400	2.886	2,804	31000	3,29	
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AWE CONSERVATION TRACKING TOOL: GHG MODULE INPUTS WORKSHEET

Enter GRS rigids of your event the tracking local to estimate the GRO reduction benefits from plumining appliance standards and plumined conservation, and result to complete trial worksheet. This worksheet lefts the model what original factors to use and how much analysis grow utility some to presidure and dishout a unit of matter supply and treat and dispute of a soft of matter state.

Select eGRID Region or Enter Your Own Emission Factors

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Energy Used for Water Supply and Wastewater Treatment

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ARRE Water and Wantewater Energy Intervelly Calculator

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BETWEEN

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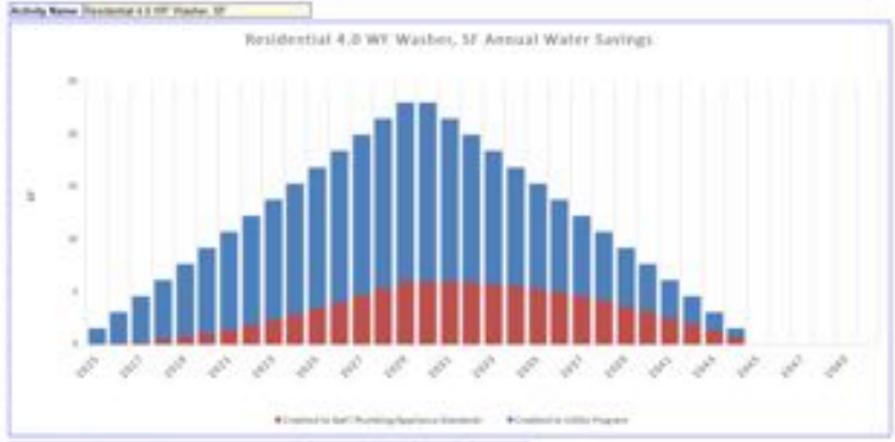




S. Rome SING Sections Parkets

AWE CONSERVATION TRACKING TOOL: ACTIVITY SAVINGS PROFILES WORKSHEET

View activity undange profile. Use the drop down tot to once the option prompt, profile of privately. The shart will share the calculated amount water springs for the activity based on the sade: savings specification and the activity levels you arroand. If the water savings specification reclaims planting (applicants internal internal internal incident with shorts the savings. Settleses the portion that is one-field to the utility program person the portion that is credited to the plumbing appliance introducts.



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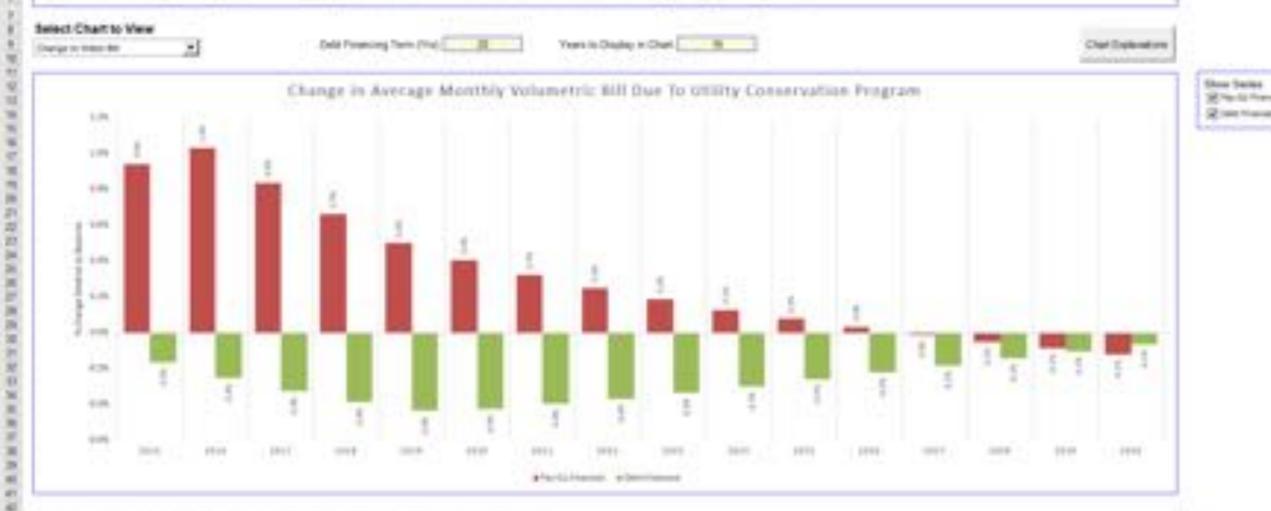
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AWE CONSERVATION TRACKING TOOL: WATER SAVINGS SUMMARY WORKSHEET Salest Chart to View this of theses to Desires 15 learners them Designed Per Lauric Jonason. Service Area Dienuell mining Salar Innings Propint Seing to Dank DENING SAMPLE IN CHIL 34 piles 70.00 4.00 ---200 Service Area Demand ш 77.594 54,010 11,447 Secretor - Provide hypotoxica (hardwell) 14,334 No Adm. 15, 914 79,346 FRUIDS. PEMA 34,0700 14 (80%) 76,4000 basins. Punktigal link. Unit; Proper Savigs. Per Capita Demand 2016 Him 2610 2012 States. 2625 BOD 1074 debet PARTY 101.00 Table Services OPICE. 0P00 187 196 Reserve - Photologisterox (Sandards) Sweine - Pursuityst Stits - Little: Program Savego (MHCD) 1815 \$587 1,561 ARXX LPES Water Savings Study pyrox ame Mari **MALE MAY** 9981 100 ALC: Y pers. 9000 ATT IN MORE 676 1.636 100 1,157 1.980 Plunth Appliance Standards M° 54(5) 4110 906 1,866 1.50 7.807 1.70% ti bolir 11,004 m 1,100 mits magrana M 411 Mile 509 1,116 1.16 1,5/8 t. Name 1.400 1.460 5.600 1.1576 to Ambr 1.01 1,295), Pro-Total Water Sections. **C.746** 2,346 LAM! 3,62 EMI LHI 13% N of Resides Demonds 1.4% 6.0% Whiter Savings Breakdown Note Salege Learney 2000 10 10

AWE CONSERVATION TRACKING TOOL: UTILITY REVENUES & RATES WORKSHEET

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Baseline Volumetric Revenue Requirement, Average Rate, & Average Bill

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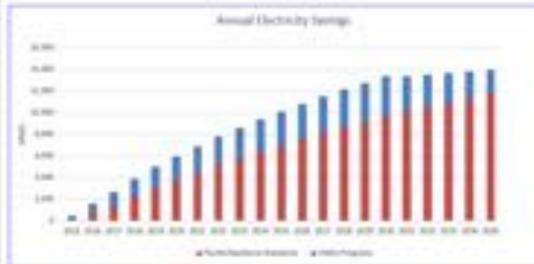
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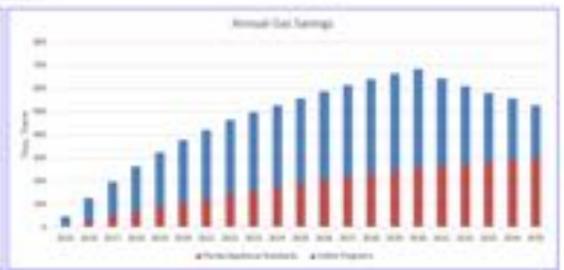
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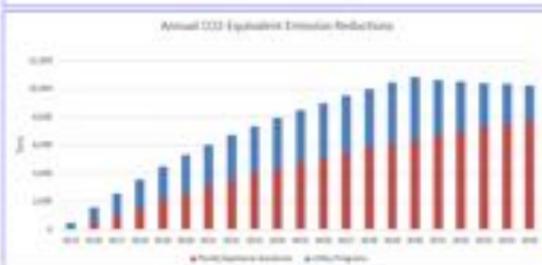
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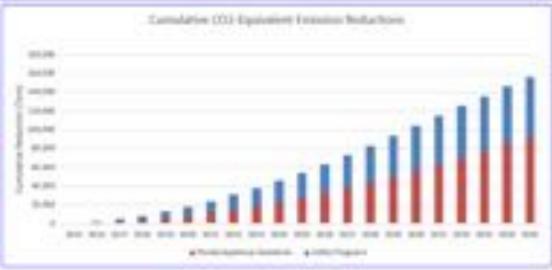
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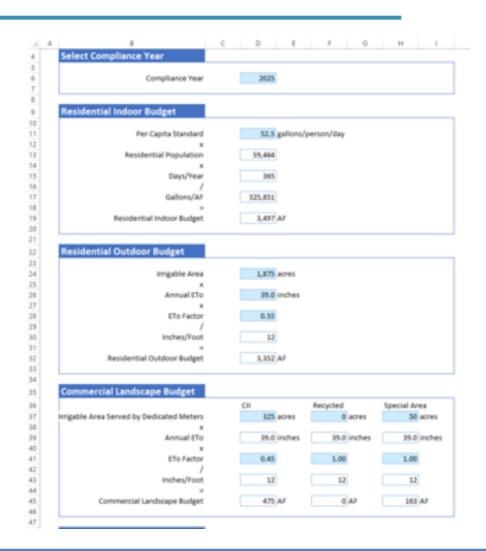
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WHAT ABOUT VERSION 4.0?

- National version likely available Q1 2021
- •California version also likely available in early 2021 prior to release of water use standards
- Both versions will have a newly integrated water loss management model
- Both versions will have new functionality for fixture stocks

FRAMEWORK TARGETS

- Water Use Objective Calculator
- Compare to Projected Water Use
- Determine if Over/Under Objective
 - Residential
 - CII Landscape
 - System Water Loss
 - Overall
- Identify Least-Cost Path to Compliance
- Impact to Utility Revenue Requirements and Rates





A SINGULAR VOICE AND A PLATFORM FOR
WATER USE EFFICIENCY AND WATER CONSERVATION,
BRINGING A CRITICAL PERSPECTIVE TO AN INCREASINGLY
THIRSTY NORTH AMERICA.

Bill Christiansen
Bill@a4we.org

