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A Chapter of the Alliance for Water Efficiency

WELCOME!

- The webinar will be 60 minutes in length, with ample time for questions.
- The audio is through your telephone or through your computer microphone & speakers (not both at the same time).
- The webinar phone line will be muted during the presentation because we are recording it for future use.
- Your questions can be typed in throughout the webinar and will be answered at the end by the speakers.

WHO ARE YOU?

- Total number of webinar registrants: 200
- Number from California: 144
- Number from other states: 56
- Number of water utilities: 140



SPEAKERS



Mary Ann Dickinson

President & CEO,

Alliance for Water Efficiency

Executive Director,

California Water Efficiency Partnership



Amy Talbot

Board Chair,

California Water Efficiency Partnership

Water Efficiency Program Manager,

Regional Water Authority



Tia Lebherz

Director of Outreach & Special Projects,
California Water Efficiency Partnership

WHAT WE'LL COVER



WHAT'S ACTUALLY IN THE NEW LAWS?



ENFORCEMENT, REPORTING AND COMPLIANCE



HELPFUL OUTREACH TOOLS FOR MEMBERS

"To make a long story short, now that these bills are law, it's illegal to take a shower and do a load of laundry in the same day because you'll exceed your 'ration.' "

Home » Opinion » This Article

Opinion: No One Can Live on The 55-Gallons-a-Day Water Limit California Is Imposing

POSTED BY EDITOR ON JULY 22, 2018 IN OPINION | 1536 VIEWS | 3 COMMENTS | LEAVE A COMMENT

LATEST NEWS

It's Now Against The Law In California To Shower And Do Laundry On The Same Day

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ENERGY / COMMENTARY

Blame California's Crazy Left-Wing Politics for Water Rationing

Jarrett Stepman / @JarrettStepman / June 06, 2018 / 158 Comr

As some have noted, the restriction could make it difficult for some California citizens to do laundry and take a shower on the same day without going over the limit.

PART 1

WHAT'S ACTUALLY IN THE LAWS?

AMY TALBOT
Regional Water Authority &
California Water Efficiency Partnership



NEW LAWS

Senate Bill 606 and Assembly Bill 1668

- Signed by Governor on May 31, 2018
- Interrelated bills that amend existing law
- Long-term water use efficiency/conservation
- Better prepare CA for droughts and climate change
- Based on Governor Brown's Executive Order B-37-16

Executive Department

State of California

EXECUTIVE ORDER B-37-16 MAKING WATER CONSERVATION A CALIFORNIA WAY OF LIFE

WHEREAS California has suffered through a severe multi-year drought that has threatened the water supplies of communities and residents, devastated agricultural production in many areas, and harmed fish, animals and their environmental habitats; and

WHEREAS Californians responded to the drought by conserving water at unprecedented levels, reducing water use in communities by 23.9% between June 2015 and March 2016 and saving enough water during this period to provide 6.5 million Californians with water for one year; and

WHEREAS severe drought conditions persist in many areas of the state despite recent winter precipitation, with limited drinking water supplies in some communities, diminished water for agricultural production and environmental habitat, and severely-depleted groundwater basins; and

WHEREAS drought conditions may persist in some parts of the state into 2017 and beyond, as warmer winter temperatures driven by climate change reduce water supply held in mountain snowpack and result in drier soil conditions; and

WHEREAS these ongoing drought conditions and our changing climate require California to move beyond temporary emergency drought measures and adopt permanent changes to use water more wisely and to prepare for more frequent and persistent periods of limited water supply; and

WHEREAS increasing long-term water conservation among Californians, improving water use efficiency within the state's communities and agricultural production, and strengthening local and regional drought planning are critical to California's resilience to drought and climate change; and

WHEREAS these activities are prioritized in the California Water Action Plan, which calls for concrete, measurable actions that "Make Conservation a California Way of Life" and "Manage and Prepare for Dry Periods" in order to improve use of water in our state.



FOUR PRIMARY GOALS

1. Use Water More Wisely

 Create, adopt, report, and enforce water budget-based method for quantifying urban retail water supplier water use targets

2. Eliminate Water Waste

- Setting urban retail supplier water loss standard, methodology, reporting and enforcement (in coordination with SB 555 requirements, 2015)
- Customer Prohibitions

3. Strengthen Local Drought Resilience

- Emergency declaration based on local water shortages
- Urban water shortage contingency planning
- Countywide planning for small water suppliers and rural communities

4. Improve Agricultural Water Use Efficiency & Drought Planning

TERMINOLOGY

- URBAN RETAIL WATER SUPPLIER: public or private supplier that directly provides potable municipal water to more than 3,000 end users or that supplies more than 3,000 acre feet of potable water annually
- OBJECTIVE: volumetric estimate of aggregate water use calculated from the standards for each urban retail water supplier
 - Used in the new laws
 - Aka Water Use Budget and/or Target
 - Example: 555 million gallons
- STANDARD: the equation/method used to calculate the volumetric estimates of the objective
 - Used in the new laws
 - Example: 55 gallons X population

CALCULATING WATER TARGETS

Contrary to what the media has said....



Water targets will be set based on the <u>overall</u> water use of water provider (targets will not be set for individual customers!)

CALCULATING WATER TARGETS

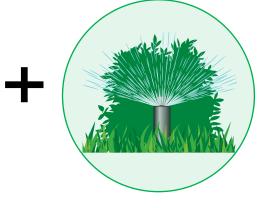
To create each water provider's unique target, the following standards will be calculated and added together:

INDOOR USE



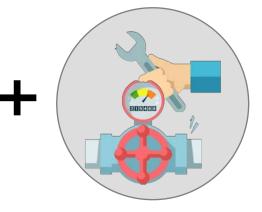
The standard for indoor residential water use is 55 gallons per person per day multiplied by the population of the service area.

OUTDOOR USE



The standard for outdoor residential water use is based upon a community's climate and the amount of landscape area and is still to be determined.

WATER LOSS



The standard for water loss due to leaks in the water system pipes is still to be determined.

CII LANDSCAPE



The standard for outdoor CII water use for accounts with dedicated irrigation meters is still to be determined.

THE INDOOR STANDARD

The standard for indoor residential water use is 55 gallons per person per day multiplied by the population of the service area.



55 GPCD x Service Area Population x 365 days = Indoor Standard

- GPCD will reduce to 52.5 by 2030 and 50 GPCD after 2030. (subject to change via Legislature)
- Water industry experts project that many people are already meeting this standard or do not have far to go.
- The Alliance for Water Efficiency has an online water calculator that can estimate how much water a household uses indoors. You can find it at: www.home-water-works.org/calculator.

THE OUTDOOR STANDARD

The standard for outdoor residential water use is based upon a community's climate and the amount of landscape area. This customized standard is still to be determined.



- Irrigable landscape will be measured via aerial imagery
- Aerial imagery will be provided by DWR, some agencies are exploring securing more detailed imagery
- Outdoor standard calculation will take into consideration the unique climate of each water provider's location

THE WATER LOSS STANDARD

The standard for water loss reduction due to leaks in the water system pipes is still to be determined.

- SB 555 requires Annual Validated Water Loss Audit Reports submitted to DWR
- Water Board to set volumetric water loss performance standards by July 1, 2020 per SB 555, earlier than the other standards.
- Standard will incorporate cost effectiveness





COMMERCIAL, INDUSTRIAL & INSTITUTIONAL

The standard for outdoor CII water use for accounts with dedicated irrigation meters is still to be determined.

 Likely be similar to residential outdoor use standard, based on local climate and irrigable landscape area.

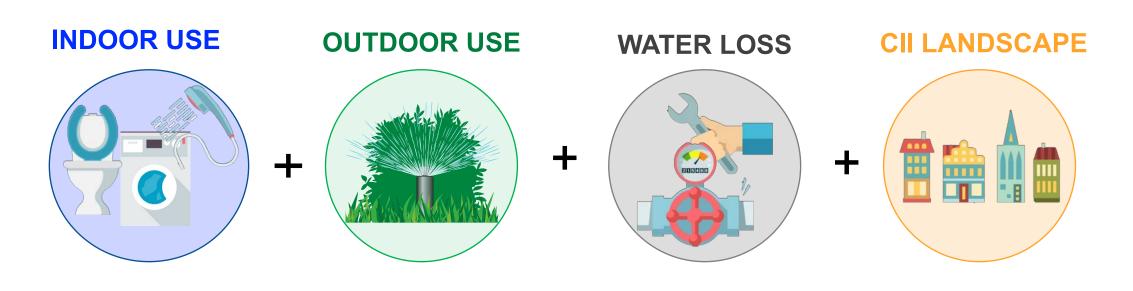


ADDITIONAL CII Water Use Regulations

- Switched from customer budget based to performance measure based
- State to perform studies and develop recommendations to Water Board based on stakeholder input by October 2021
 - CII water use classification system
 - Setting minimum size thresholds for converting mixed CII meters to dedicated irrigation meters or in lieu technologies
 - CII best management practices
 - Does NOT include process water
 - Recommendations must be consistent with 2013 CII Task Force Report

CALCULATING WATER TARGETS

Providers will need to meet the SUM of 4 standards, NOT each one individually.



WATER PROVIDER'S UNIQUE WATER TARGET

ADDITIONAL DETAILS

Variances

DWR will develop and recommend variances for each of the following unique water uses:

- Evaporative coolers
- Horses & other livestock
- Seasonal populations
- Landscape irrigated with recycled water
- Soil compaction & dust control
- Ponds & lakes to sustain wildlife
- Irrigation of vegetation for fire protection
- Agricultural uses
- Others TBD

Potable Reuse Bonus Incentive

UP 15%

A credit of up to 15% of water use objective for potable reuse water delivered to residential water users and CII landscape areas with dedicated irrigation meters, if applicable.

PART 2

ENFORCEMENT, REPORTING AND COMPLIANCE

MARY ANN DICKINSON
Alliance for Water Efficiency &
California Water Efficiency Partnership



Efficiency TIMING Standards

2018 2022 2026 2023 **STANDARDS** CONSTRUCTION Adopt Suppliers All suppliers Begin standards, standard calculate reach PMs, and development objectives objectives method

More detailed Timeline

Residential Indoor Standard

Study whether 55 GPCD reflects best practices

Study impacts of a changing standard

Stakeholders engage in research

By **Jan 2021**: Complete report

Other Standards

Stakeholders and public engage in studies and rulemaking

By Oct 2021: Recommend

standards, CII
PMs, variances
and method to
calculate objective.

By May 2022: identify potential impacts

By June 2022: Adopt standards and CII PMs

Enforcement

Starting November 2023: Board may issue informational orders

Starting November 2024: Board may issue written notices

Starting November **2025:** Board may issue *conservation orders*

Providers that violate these orders may be subject to fines of up to \$1000/day

Starting in **2027**: Violating a regulation may also result in a fine

Water Loss Standard

Reporting Stakeholder meetings (now)

By Jan 2019: Begin rulemaking

By **July 2020:**Adopt regulation

Adopt regulation

After Jan 2019:

Fall 2018: Begin

rulemaking

Source: State Water Resources Control Board

THE PROCESS IS STARTING



Upcoming DWR Listening Sessions:

Sacramento: September 5, 2018

Los Angeles: September 7, 2018

Fresno: September 11, 2018

Learn More:

http://bit.ly/DWRListeningSessions



Public Stakeholder Workgroup Meeting #3

Water Loss Control

Los Angeles: September 17, 2018

Metropolitan Water District

Learn More:

http://bit.ly/SWRCB091718

REPORTING



- Applies to wholesale and retail water providers.
- Reporting regulations to be adopted in 2019.
- Monthly Reports on water production use, and conservation will be required.
- Annual Reports of a water provider's previous year's aggregate water use with the urban water use objective will be required every November 1 -- beginning in 2023.
- Short time frame for compliance strategies to show results before water provider reporting starts.

OUR CALWEP COMMITMENT

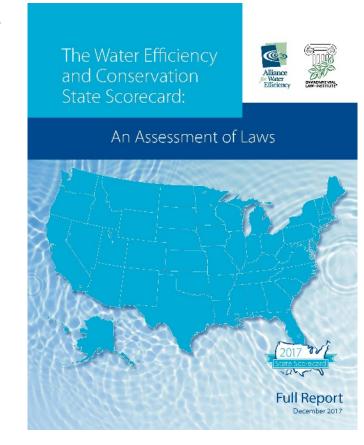
- We were not involved in developing these legislative requirements.
- We know that complying with the law and implementing new programs won't be easy.
- CalWEP is here to be your partner. We are committed to helping our members comply as successfully and affordably as possible.
- Over the coming months and years, we will work closely with our colleagues at DWR, the SWRCB, and other partner organizations to provide support and resources for our agency members.

WHAT SPECIFICALLY WILL WE DO?

- Provide technical support to state agencies during regulation and target development.
- Form workgroups with our members to brainstorm collective ideas for assisting water providers with framework compliance.
- Develop planning tools (landscape, CII) to help our water provider members determine cost effective ways to reach assigned targets.
- Develop measurement strategies to help our water provider members prove that they are meeting their assigned targets.
- Develop specialized reporting formats for our members.

AS CALIFORNIA GOES, SO GOES THE NATION?

- California has set regulatory conservation milestones over the years (plumbing standards, 20%x2020 goal, emergency drought reductions, water loss auditing requirements)
- State with the highest score in AWE's 2012 and 2017
 Water Efficiency and Conservation State Scorecard
- Setting individual targets for water utilities is unique not percentage reduction based
- Watch to see if it becomes a national model



PART 3

HELPFUL TOOLS FOR CALWEP & AWE MEMBERS



TIA LEBHERZCalifornia Water Efficiency Partnership

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CalWEP's Outreach & Media Toolkit

CALWEP'S MEDIA AND OUTREACH TOOLKIT

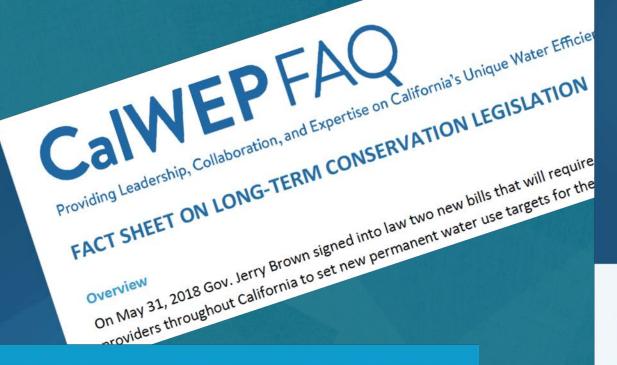
WHAT'S INCLUDED:

Available NOW on CalWEP's website (calwep.org)

- General fact sheet with frequently asked questions
- Infographic: Calculating Water Targets
- Social media sample posts with sharable images
- Template language for community publications
- One pager with talking points for customer service representatives
- Informational Presentation

In development

- Short information video (with ability to cobrand for member agencies)
- Compilation of materials and resources from across the state
- Anything else? Let us know!



NEW INDOOR WATER USE TARGETS BY 2022



TARGET APPLIES ON AN OVERALL SYSTEM-WIDE BASIS (not an individual basis)

California's New Water Efficiency Laws: Calculating Water Targets

New laws require urban water providers to set permanent water use targets for their service areas by 2022.

But how will these new targets be calculated?



Water targets will be set based on the overall water use of water provider

(not set for individual customers!)

To create each water provider's unique target, the following standards will be calculated and added together:

INDOOR USE

The standard for indoor residential water use is 55 gallons per person per day multiplied by the population of the service area.



QUESTIONS?

Please submit using webinar tool

Thank you for joining us!

- A link for this webinar will be available in a few days.
- Toolkit is already posted at www.calwep.org
- Additional questions after the webinar? Email <u>liam@a4we.org</u> or <u>michael@calwep.org</u>



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