



Long Term Conservation Regulation Update

IRWM Regional Advisory Committee
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Background

- **2009** - Senate Bill X7-7 (20% by 2020)
- **2014** - California Water Plan Update
 - Action 1: “Make Conservation a California Way of Life”
 - Action 5: “Manage and Prepare for Dry Periods”
- **May 2016** - Governor Brown Issued Executive Order B-37-16 entitled “Making Conservation A California Way of Life”
- **April 2017** - Implementation Framework Completed
- **May 2018** - Implementation Legislation: Senate Bill 606/Assembly Bill 1668
- **November 2018** - Making Conservation A California Way of Life Primer



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Make Conservation a California Way of Life

Use water more wisely

- Emergency conservation regulations
- New water use targets
- Permanent monthly reporting

Eliminate water waste

- Water use prohibitions
- Minimizing water loss
- Innovative water loss & control technologies

SB 606/AB 1668

Strengthen local drought resilience

- Water Shortage Contingency Plans
- Urban Water Management Plans
- Drought planning for small water suppliers and rural communities

Improve agricultural water use efficiency and drought planning

- Strengthened agricultural water management plan requirements



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Strengthen Local Drought Resilience

- Update contents of Urban Water Management Plan (UWMP)
 - Conduct a five-year drought risk assessment
 - Evaluation criteria used to conduct assessment will be locally applicable
- Prepare Water Shortage Contingency Plan (WSCP)
 - Define methodology and evaluation criteria used to conduct Annual Water Budget Forecast
 - Include six standard shortage levels and shortage response actions for each shortage level
- Annual Water Assessment



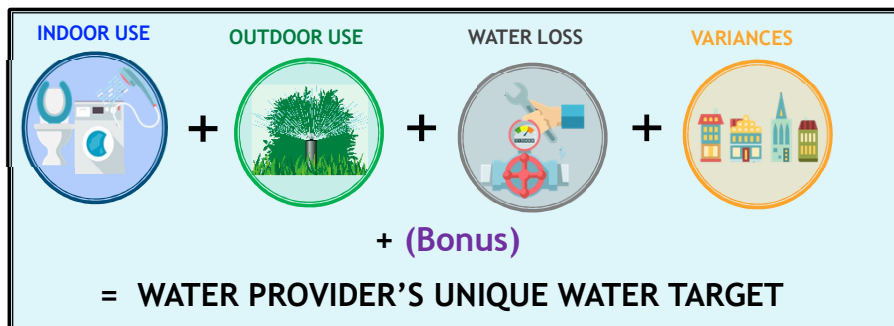
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Requirements for Water Use Efficiency Targets

- State agencies will establish new water use targets or performance measures based upon strengthened standards in four areas:
 - **Indoor residential per capita use**
 - **Outdoor irrigation incorporating landscape area and climate**
 - Water lost through leaks
 - Commercial/Industrial/Institutional (CII)
- Must increase **statewide** targets beyond the “20% by 2020” under SB X7-7
- Also requires permanent monthly reporting

Water Use Efficiency Formula

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



- Bonus (up to 15%) for qualifying potable reuse projects
- Performance measures to be developed for CII

Indoor Residential Portion of Target

$$\text{Indoor Target} = (\# \text{ of Residents}) \times (\text{Indoor GPCD standard})$$

- Indoor standard is:
 - 55 GPCD (until Jan 1, 2025)
 - 52.5 GPCD (Jan 1, 2025 until Jan 1, 2030)
 - 50 GPCD (beginning Jan 1, 2030)
- Study to recommend a new standard and determine impacts of indoor efficiency (~~Jan.~~ June 2021)



Outdoor Irrigation Portion of Target

$$\text{Outdoor Target} = (\text{Annual Evapotranspiration}) \times (\text{Landscape Area}) \times (\text{Evapotranspiration Adjustment Factor})$$

- Evapotranspiration or Eto
 - A measured weather factor of solar radiation, temperature, humidity, wind/plant transpiration
- Evapotranspiration Adjustment Factor or “ETAF”
 - Level of water use applied based upon landscape type
- The Model Water Efficient Landscape Ordinances (MWELO) use ETAF to establish water budgets for landscapes



Landscape Area Measurements

- State provides residential landscape area measurements for each agency by **January March 2021**
- Target includes commercial, industrial and Institutional landscape areas served by a dedicated meter (measurements not provided by State)



Variances

- Studies and investigation for unique uses including:
 - Evaporative coolers
 - Horses and other livestock
 - Seasonal population fluctuation
 - Recycled water irrigation
 - Dust control
 - Pond and lakes for wildlife
 - Fire protection
 - Agricultural use



Water Loss Standard Portion of Target

$$\text{Loss Target} = (\text{Loss Standard per Connection}) \times (\text{Number of Connections})$$

- Establish water loss standard through SB 555 process
- Rulemaking anticipated in 2021
- Components of proposed framework:
 - Individualized targets based on economic model
 - Can be enforced outside of efficiency standard



CII Performance Measures

- Develop recommendations for performance measures through a stakeholder process
- State shall solicit input on:
 - Classification
 - Minimum thresholds for dedicated meters
 - Best management practices
- Adopt performance measures June 30, 2022



Water Use Efficiency Standard Timelines

- **October 2021** - **DWR** makes standard recommendations to SWRCB
- **June 2022** - **State Water Board** adopts urban water use efficiency standards, performance measures, and variances.
- **Jan. 2027** - **Urban water suppliers** shall achieve the urban water use objective.



Enforcement Timeline

- **January 1, 2024** - Water suppliers provide the first report of targets and water use and a plan to meet the target by January 1, 2027. The SWRCB may issue **information orders** to agencies not meeting the standards.
- **January 1, 2025** - Water suppliers provide a report of targets and water use. The SWRCB may issue a **written notice** to agencies not meeting the standards.
- **January 1, 2026** - Water suppliers provide a report of targets and water use. The SWRCB may issue **conservation orders** to agencies not meeting the standards.
- **January 1, 2027 and annually after** - Water suppliers provide a report of targets and water use. The SWRCB may impose **civil liabilities (fines)** to agencies not meeting the standards.

Questions