

2024 Update to the State's *Making Water* Conservation a Way of Life

City of Upland
Public Works Committee Meeting
January 9, 2024



Background



- In 2018, the California State Legislature enacted SB 606 and AB 1668 to “Make Water Conservation a California Way of Life”
- Indoor Residential WUE Rulemaking – Final Approved 9/28/22
- Water Loss Rulemaking – Final Approved 10/19/22
- In September 2022, the California Department of Water Resources (DWR) made recommendations on the standards and calculations for outdoor residential and CII water use
- In August 2023, the SWRCB released the Proposed Regulatory Text for outdoor residential and CII water use

Why?



1. Recent Droughts
2. Preparation for Climate Change

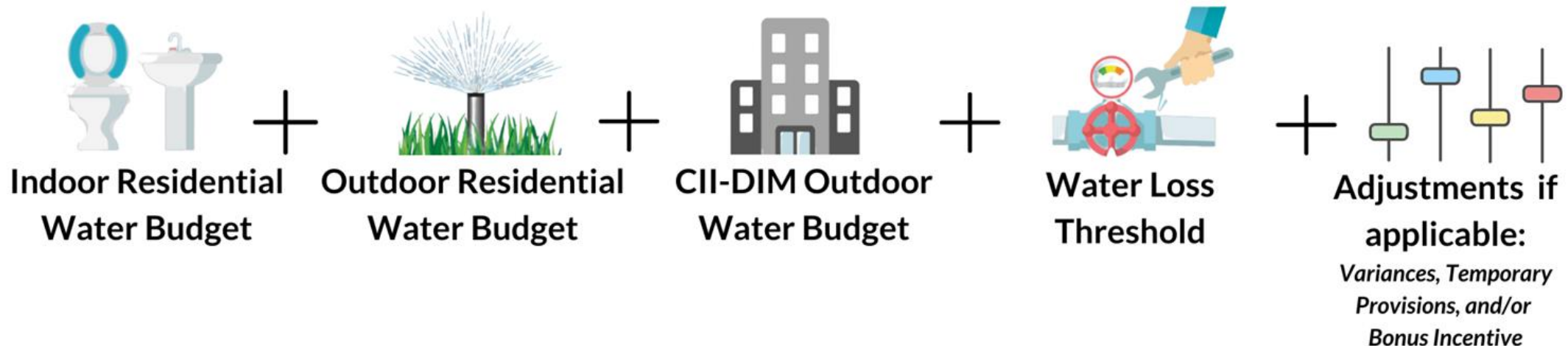


Background



Components of the Water Use Objective Regulation

The **Urban Water Use Objective** is a total water budget, in gallons per capita per day (GPCD), that is the sum of efficiency budgets for a subset of urban water uses that include:



What's the impacts?



1. Reduce Water Use (make unit cost more expensive)
2. Water Use Targets (eliminate non-functional turf)

2025 Compliance Performance

Expected Target:

47 GPCD Indoor + 70 GPCD Outdoor

Baseline Use:

54 GPCD Indoor + 88 GPCD Outdoor

Projected based upon
2020-2022 average actual use



● Upland GPCD Baseline Use
● Expected GPCD Target

2030 Compliance Performance

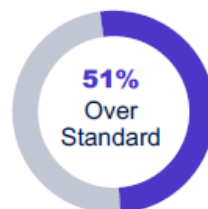
Expected Target:

42 GPCD Indoor + 52 GPCD Outdoor

Baseline Use:

54 GPCD Indoor + 88 GPCD Outdoor

Projected based upon
2020-2022 average actual use



● Upland GPCD Baseline Use
● Expected GPCD Target

2035 Compliance Performance

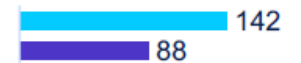
Expected Target:

42 GPCD Indoor + 36 GPCD Outdoor

Baseline Use:

54 GPCD Indoor + 88 GPCD Outdoor

Projected based upon
2020-2022 average actual use



● Upland GPCD Baseline Use
● Expected GPCD Target

Solutions



- 1. Outreach, Incentive & Enforcement**
- 2. Reduce Water Loss**
- 3. Increase Recycle Water Use**
- 4. Water Budget-Based Rate Structure**



Questions

Calculating the Water Use Objective



Indoor Residential Standard by year

Compliance Year	Allowable GPCD
2020-2024	55
2025-2029	47
2030 onward	42

Commercial Water Use Objective Milestones



Jan. 1, 2025

Identify all **disclosable buildings** in in suppliers' service areas (>50,000 sq. ft.).

July 1, 2025

Ban the irrigation of **non-functional turf** on CII landscapes.

20% by 2026 + 60% by 2028 + 100% by 2030

- **Classify all CII customers** in accordance with ENERGY STAR Portfolio Manager's categories.
- **Identify all CII large landscapes that have mixed-use meters** and either **install DIM or employ in-lieu technologies** for large landscapes.
- **Design and implement a conservation program** for customers at or above the 80th percentile for water use in each classification category that includes a best management practice for five categories: outreach, technical assistance and education; incentive; landscape; collaboration and coordination; operational.

Calculating the Water Use Objective



Compliance Date	Irrigable-Irrigated (II)	Irrigable-Not-Irrigated (INI)	Special Landscape Areas (SLA)	New Construction (post 1/1/2019)*
July 1, 2023	0.80	0.80	1.0	0.55
July 1, 2030	0.63	0.63 until 6/30/2027 then N/A	1.0	0.55
July 1, 2035	0.55	N/A	1.0	0.55

**For new homes built after the DWR Landscape Area Measurement (LAM) data was generated, the water budgets should be calculated with an LEF of 0.55.*

What



What's the impacts?



- Very high cost for little benefit.
- Major affordability concerns
- Standards will be hard to meet

CII/Dedicated Irrigation Meters WUO Compliance

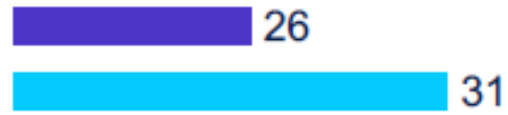


Compliance Performance

2028
Expected
Target:
31 GPCD



2030
Expected
Target:
26 GPCD



2035
Expected
Target:
21 GPCD



● GPCD Projected Standard ● GPCD Current Use

Residential Indoor/Outdoor WUO Compliance



2025 Compliance Performance

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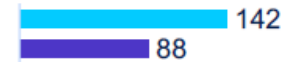
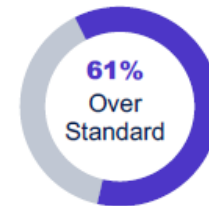
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● Upland GPCD Baseline Use
● Expected GPCD Target

Solutions



- 1. Conduct Targeted Outreach to Inefficient Water Users**
- 2. Offer Enhanced Incentive & Program Opportunities**
- 3. Hardware Improvement**
- 4. Enforcement**
- 5. Increase Recycle Water Demand**
- 6. Water Budget-Based Rate Structure**