What the FRAMEWORK?
A round-up of what's going on with the new conservation regulations

 Indoors Use + Outdoor Residential Use + CII Landscape + Water Loss

CalWEP.org/framework-updates
Calculating water targets

Providers will need to meet the SUM of the standards

INDOOR USE + OUTDOOR RESIDENTIAL USE + CII LANDSCAPE + WATER LOSS

+ (Variances) + (Recycled Water Bonus)

=WATER PROVIDER’S UNIQUE WATER TARGET
The Indoor Standard
55 GPCD x Service Area Population x 365 days
CURRENT indoor standard (from 2018 legislation)

- 2020: 55 GPCD
- 2025: 52.5 GPCD
- 2030: 50 GPCD

PROPOSED indoor standard in legislature (Bill to be introduced)

- 2020: 55 GPCD
- 2025: 47 GPCD
- 2030: 42 GPCD

RECOMMENDED indoor standard (DWR and SWRCB Joint Report)

- 2020: 55 GPCD
- 2025: 47 GPCD
- 2030: 42 GPCD
The Water Loss Standard
The standard for water loss due to leaks in the water system pipes is based on a loss standard of gallons per connection per day.
Formal rulemaking started Dec. 24th and comments are due to the SWRCB by Feb. 11th.

If there are major changes an additional 15-day comment period will be added.

Regulation is expected to be adopted in Q2.

Questions on water loss? Contact Amy Talbot – atalbot@rwah2o.org
The Residential Outdoor Standard
ORWU Equation =

\[(E\text{To-Peff}) \times (L\text{As}) \times (E\text{TF}) \times (0.62)\]

**ORWU** = Outdoor Residential Water Use (gallons)

**E\text{To}** = Reference evapotranspiration (inches)

**Peff** = Effective precipitation (inches)

**L\text{As}** = Landscape area for a water supplier (sq. ft)

**E\text{TF}** = ET Factor (unitless) represents a percentage of reference E\text{To}; function of plants’ water needs & irrigation efficiency

**0.62** = unit conversion factor
Landscape Area Measurement

• Landscape area measurement was developed using aerial imagery of the 399 urban water agencies in CA

• LAs include all IRRIGABLE IRRIGATED (II) landscape and if needed will also include a 20% buffer of IRRIGABLE NOT IRRIGATED (INI) Landscape
Current DWR Recommendation for ETF

ORWU Equation = \((ETo-Peff) \times (LAs) \times (ETF) \times (0.62)\)

2023 – 2029 = 0.80 ETF*
2030 and thereafter = 0.65 ETF
New Developments = 0.55 (or current MWELO ETAF value)
Special Landscape Areas (SLA) = 1.0 ETF

* Note that DWR has assumed an irrigation efficiency of 80%
The CII Standard and Performance Measures
Step 1A Measure
- Must map 20% of CII water accounts per year
- 5 years to complete

Step 1B Classify
- Formal procedures for collecting classification info.
- Update classifications w/ modified or new service requests

Step 2 Implement
- CII-DIM Water Use Standard
- Performance Measures (in-Lieu & BMPs)
Commercial, industrial and institutional accounts are separated into two different regulations – one is standards based for accounts with dedicated irrigation meters above a certain threshold and one is performance measure based.
3 Pathways to Compliance:

WATER USE STANDARD

1. CII – DIM / Equivalent Tech. Conversion

PERFORMANCE MEASURES

2. In-Lieu Tech
3. CII BMPs
3 Pathways to Compliance:

WATER USE STANDARD

CII – DIM / Equivalent Tech. Conversion

- > 1 acre irrigated
- CII-DIM Water Budget Equation applies
- Must report water use

PERFORMANCE MEASURES

In-Lieu Tech

CII BMPs
CII Water Use Standard

$$UWUO_{CII-DIM} \text{ Equation} = (\text{ETo-Peff}) \times (\text{LAs}) \times (\text{ETF}) \times (0.62)$$

$$UWUO = \text{Urban Water Use Objective (gallons)}$$

2023 – 2029 = 0.80 ETF*
2030 and thereafter = 0.65 ETF
New Developments = 0.45 (or current MWELO ETAF value)
Special Landscape Areas (SLA) = 1.0 ETF

* Note that DWR has assumed an irrigation efficiency of 80%
3 Pathways to Compliance:

**WATER USE STANDARD**

CII – DIM / Equivalent Tech. Conversion

**PERFORMANCE MEASURES**

**In-Lieu Tech**

- > 1 acre irrigated
- Demonstrate improved WUE
- Companion BMPs required
- Qualitative Reporting

**CII BMPs**

- 5 BMP categories
- Top 2.5% individual / Top 20% by sector
- Develop Implementation Plan
- Qualitative Reporting

*Process water excluded*
### WATER USE STANDARD

**CII – DIM / Equivalent Tech. Conversion**

- >1 acre irrigated
- CII-DIM Water Budget Equation applies
- ✓ Must report water use

### PERFORMANCE MEASURES

#### In-Lieu Tech

- >1 acre irrigated
- Demonstrate improved WUE
- Companion BMPs required
- ✓ Qualitative Reporting

#### CII BMPs

- 5 BMP categories
- Top 2.5% individual / Top 20% by sector
- Develop Implementation Plan
- ✓ Qualitative Reporting

*Process water excluded
ANNUAL WATER USE REPORT (Jan. 2024):

- **Quantitative**: **CII Water Use** as part of the Urban Water Use Objective (gallons)

- **Qualitative**: Implementation (or progress towards implementation) of the **performance measures** and **CII classification** system
DWR Updated Schedule

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<th>Timing</th>
<th>Lead Agency</th>
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<td>Since Oct. 1, 2020</td>
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<td>Water loss standards</td>
<td>End of 2020</td>
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<td>June 2022</td>
<td>DWR</td>
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*WUE standards include:
- Outdoor residential use standard
- Standard for CII outdoor landscape area with dedicated irrigation meters
- Performance measures for CII water use (delayed)
- Appropriate variances
- Guidelines and methodologies for calculating urban water use objectives