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Executive Order B-37-16 Urban Advisory Group Meeting 10-20-2016

MAKING CONSERVATION A CALIFORNIA WAY OF LIFE



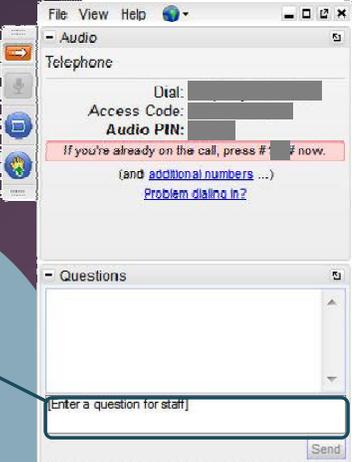
OCTOBER 5, 2016

Webinar Control Panel – Providing Comments

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Make sure you are unmuted on your end.

Enter Comments here



WEBINAR ORIENTATION

If you have technical difficulties, contact Sarah DiVittorio: sdvittorio@ccp.csus.edu

This is a listen-only Webinar. We will not have time to respond to comments in real-time today, but they will be included in the meeting summary. You can also submit comments to wue@water.ca.gov.

Agenda Overview

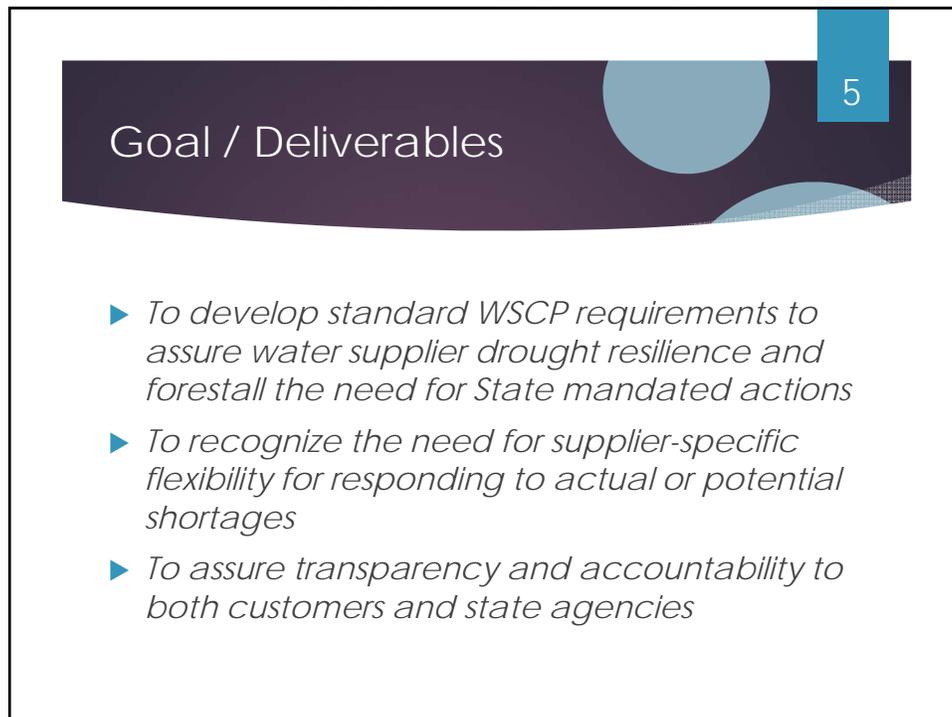
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- ▶ Review Draft Framework from Project Teams:
 - ▶ Strengthen Local Drought Resilience
 - ▶ Eliminate Water Waste
 - ▶ Use Water More Wisely
- ▶ Discuss considerations for January 10, 2017 Report

Strengthening Local Drought Resilience

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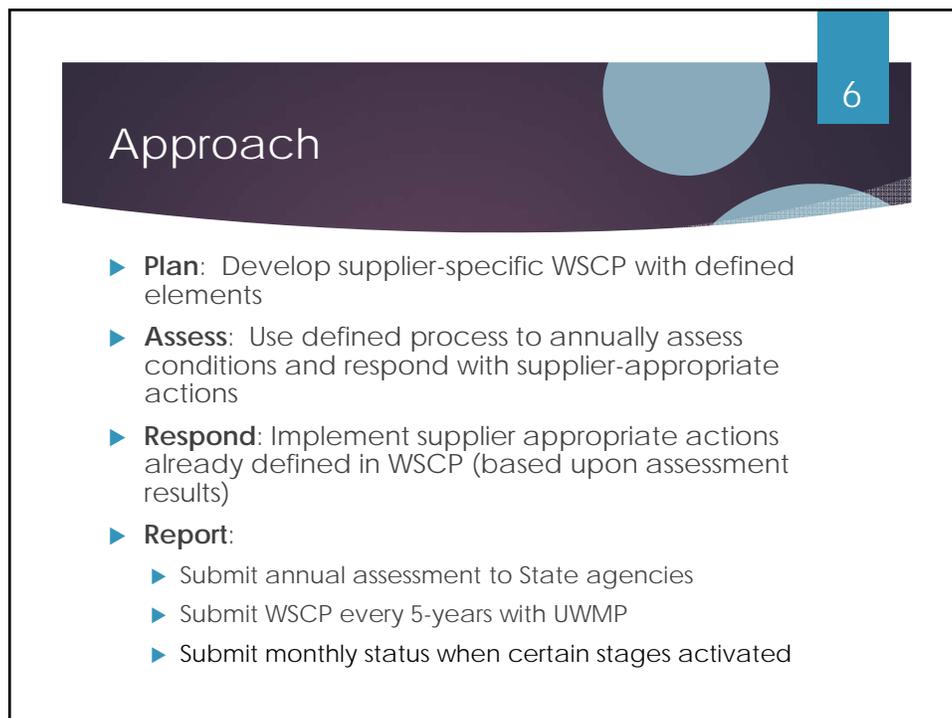
- ▶ *(EO#8) The Department shall strengthen requirements for urban Water Shortage Contingency Plans, which urban water agencies are required to maintain. These updated requirements shall include adequate actions to respond to droughts lasting at least five years, as well as more frequent and severe periods of drought. While remaining customized according to local conditions, the updated requirements shall also create common statewide standards so that these plans can be quickly utilized during this and any future droughts.*



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Goal / Deliverables

- ▶ *To develop standard WSCP requirements to assure water supplier drought resilience and forestall the need for State mandated actions*
- ▶ *To recognize the need for supplier-specific flexibility for responding to actual or potential shortages*
- ▶ *To assure transparency and accountability to both customers and state agencies*



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Approach

- ▶ **Plan:** Develop supplier-specific WSCP with defined elements
- ▶ **Assess:** Use defined process to annually assess conditions and respond with supplier-appropriate actions
- ▶ **Respond:** Implement supplier appropriate actions already defined in WSCP (based upon assessment results)
- ▶ **Report:**
 - ▶ Submit annual assessment to State agencies
 - ▶ Submit WSCP every 5-years with UWMP
 - ▶ Submit monthly status when certain stages activated

Stakeholder feedback

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- ▶ The State needs to define the "problem" being fixed
- ▶ State-mandated "one-size-fits-all" percentage reduction goals do not work due to wide variety in supplier-specific circumstances
- ▶ Future supply conditions should reflect potential effects of: climate change, future regulatory constraints, hydrology variability, etc.
- ▶ Statewide standard "stages" must allow for supplier-specific local actions
- ▶ Voluntary demand reduction activities should be differentiated from "mandatory" reductions actions
- ▶ Triggers that drive locally-relevant responses should be clear

Stakeholder feedback (cont.)

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- ▶ Recognize that supply portfolio management and temporary supply augmentation may be part of a supplier's WSCP responses
- ▶ An economist should be involved in WSCP development
- ▶ The State should utilize existing supplier reporting and analyses when developing WSCP requirements
- ▶ Clearly differentiate that the long-term demand management from temporary WSCP response actions
- ▶ If the State may mandate conservation actions, it needs to clearly define predictable assessment processes and triggers so suppliers can plan accordingly

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Stakeholder Feedback (cont.)

- ▶ Regional or statewide mandated demand reduction seems unnecessary if suppliers are successfully implementing their WSCPs
- ▶ The State agencies should facilitate regional communications and coordination, and should coordinate amongst themselves with data and analysis
- ▶ The State needs to clarify how it may define a “region”
- ▶ Separate short term vs. long term planning

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Urban water suppliers submit a WSCP that:

1. Defines Annual Assessment Schedule and Procedures
2. Defines Annual Assessment Methodology
 - a. Annual Water Budget Forecast (WBF)
 - b. Annual 5-year Drought Risk Assessment (5-DRA)
3. Defines Evaluation Criteria – a set of Evaluation Criteria used to conduct the WBF and the 5-DRA
4. Defines Shortage Response Actions (SRAs) to mitigate actual or potential shortage
 - a. Supply management and augmentation
 - b. Voluntary and mandatory demand reduction
5. Defines Shortage Thresholds to enable definitive grouping of defined SRAs

WSCP elements (cont.)

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6. Defines Staged Mandatory Demand Reduction Actions as a subset of SRAs focused only on demand reduction
7. Establishes a Communications Plan, describing approach, potential budget needs, and probable actions to quickly implement SRAs
8. Details Customer Compliance, Enforcement mechanisms and exemption process
9. Demonstrates Implementation Authorities to assure consistent and timely implementation of the WSCP to maintain desired water supply reliability

WSCP elements (cont.)

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9. Defines a Financial Plan for Drought Conditions to accommodate and manage financial affects when SRAs are triggered
10. Defines Monitoring and Reporting Requirements and Procedures
 - a. Internally (e.g. to elected board/council)
 - b. Externally to customers and neighboring suppliers or counties
 - c. To State agencies
11. Establishes a Re-evaluation and Improvement Process to monitor and systematically evaluate the WSCP's functionality to manage risk

State Agency Role

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- ▶ Monitor regional and statewide conditions
- ▶ Review WSCPs and data
- ▶ Provide increased Technical and Financial Assistance for preparing and implementing WSCPs and related response actions
- ▶ Develop *Reporting, Compliance, and Enforcement* protocols to ensure suppliers are adequately prepared for more severe and frequent drought conditions

State's reporting, compliance and enforcement protocols

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- ▶ Objective
 - ▶ Document compliance with WSCP requirements
 - ▶ Establish a data record that can be useful in analysis, oversight and drought-risk evaluations
 - ▶ Provide transparency and accountability
- ▶ Timing
 - ▶ Supplier would submit required information to the the State by [date?] each year
 - ▶ Reporting would utilize existing State reporting requirements (data, formats, platforms) as appropriate to minimize redundancy and supplier resources

RCE Protocols (cont.)
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- ▶ Potential Data
 - ▶ Prior year's production volume
 - ▶ Current year's projected customer demand (prior to any reduction goal), and projected demand for next 5 years
 - ▶ Current year's supply, and projected available supply for next 5 years (potentially for multiple supply scenarios)
 - ▶ Selected responses (if any), accompanied by estimated supply augmentation and/or demand reduction (voluntary or mandatory)
 - ▶ Access/weblinks to materials presented to supplier's elected body detailing Annual Assessment data, analysis, results and recommendations (e.g. staff report)
 - ▶ Monthly submittals in declared drought emergency

RCE Protocols (cont.)
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- ▶ Potential Compliance
 - ▶ Submittal of complete and adequate WSCP to DWR
 - ▶ Submittal of annual assessment and stress test data to DWR and monthly status to SWRCB, if WSCP activated
- ▶ Potential Enforcement
 - ▶ Non-submittal of compliant WSCP or required reports
 - ▶ Non-implementation of supplier's own WSCP, if activated

Annual and Five Year Dry Period Assessments

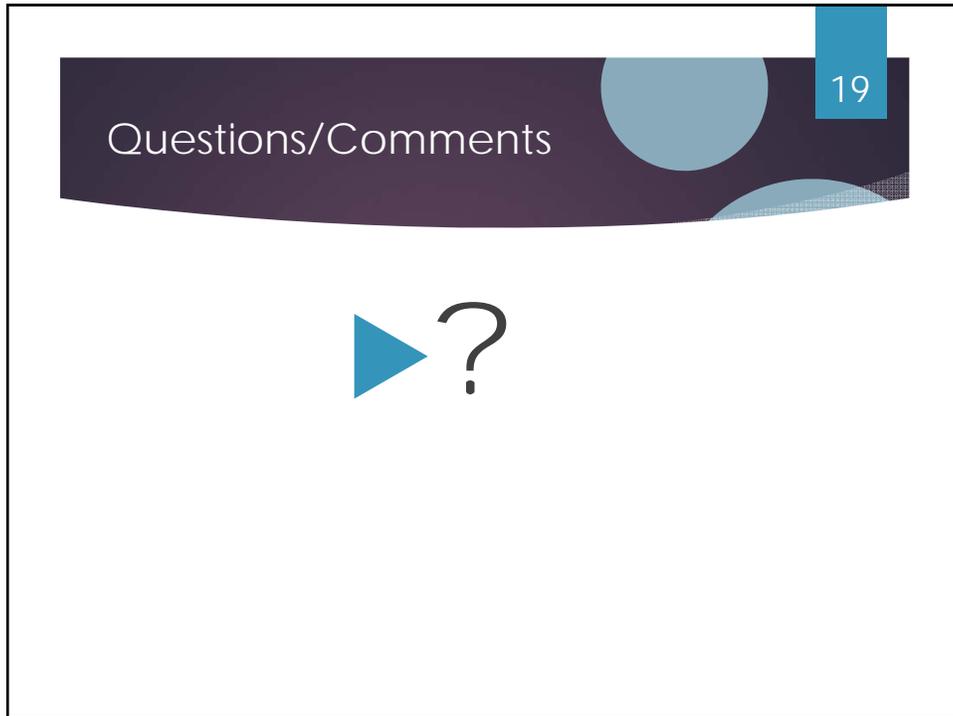
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- ▶ Proposed variants
 - ▶ 1. Annual self assessment (WBF)
 - a. submit with UWMP or if trigger invokes WSCP
 - b. five year stress test submitted with UWMP
 - ▶ 2. Annual self assessment (WBF) in current year plus five year stress test submitted to State annually
 - ▶ 3. Annual self assessment submitted to State
 - a. submit to State a five year stress test with UWMP and when WSCP is invoked

Annual and Five Year Dry Period Assessments Recommendation

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- ▶ Water suppliers shall conduct an Annual Water Budget Forecast (supplies and demands) covering the period May through April, and report the budget forecast to the Department of Water Resources each April. Water suppliers shall also conduct a 5-Year Dry Period Assessment each year, and report the assessment in their 5-year Urban Water Management Plan, as well as in years when the supplier invokes or increases a stage/level of their Water Shortage Contingency Plan.

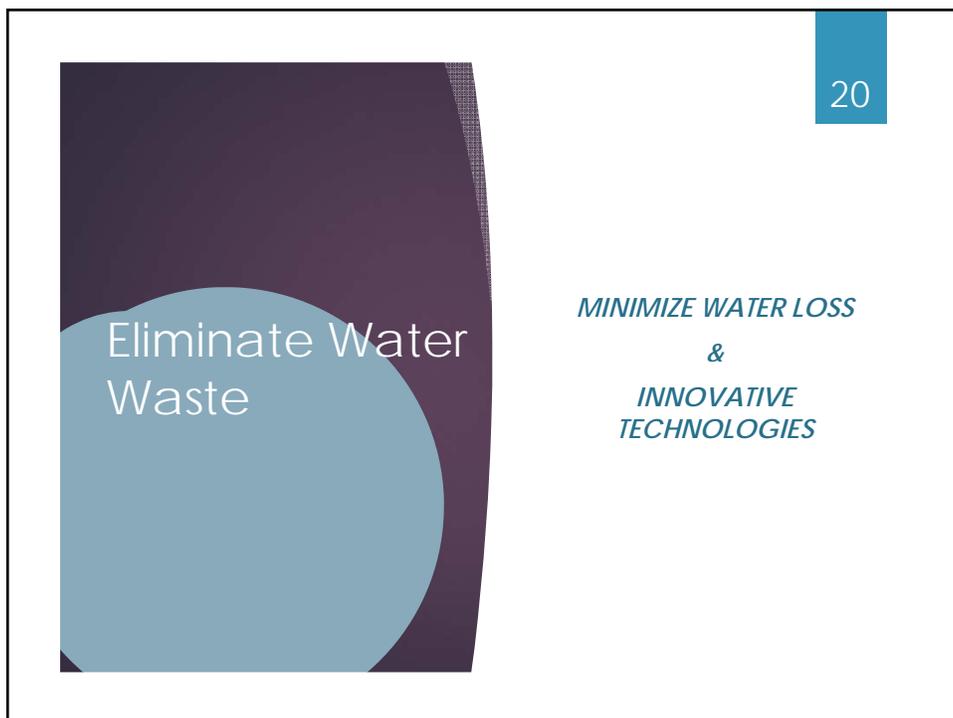


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Questions/Comments

▶ ?

This slide features a dark purple header with the text "Questions/Comments" in white. A blue square in the top right corner contains the number "19". Below the header, a blue play button icon is followed by a question mark.



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Eliminate Water Waste

*MINIMIZE WATER LOSS
&
INNOVATIVE
TECHNOLOGIES*

This slide features a dark purple header with the text "Eliminate Water Waste" in white. A blue square in the top right corner contains the number "20". Below the header, the text "MINIMIZE WATER LOSS & INNOVATIVE TECHNOLOGIES" is displayed in a blue, italicized font.

Chapter 4, Eliminate Water Waste - Report Outline

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- ▶ 4.1 Emergency Water Conservation Regulation for 2017
- ▶ 4.2 Permanent Prohibition in Wasteful Practices
- ▶ 4.3 Reduce Water Supplier Leaks and Water Losses
- ▶ 4.4 Certification of Innovative Technologies for Water Conservation and Energy Efficiency

SB 555 Validated Water Loss Reporting

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- ▶ Stakeholder meetings on regulations development
 - ▶ July 22, August 19, September 12
- ▶ Stakeholder members
 - ▶ Water agencies (public and private), environmental, association representatives
- ▶ Preparing to take the draft regulations public

Financial Assistance for Water Loss Control

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- ▶ State Water Board will offer financial assistance for leak detection and repair to water systems that had emergency shortages.
- ▶ I-Bank CLEEN state revolving loan fund available to all government agency and non-profit water suppliers
- ▶ CEC is currently funding a pilot project of three innovative leak detection and reduction technologies with California-American Water Company
 - ▶ Acoustic monitoring
 - ▶ Satellite imagery
 - ▶ Pressure reduction

Certifying Water Conservation and Loss Detection and Control Technologies

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- ▶ Energy Commission held a Informational Proceeding Public Workshop on October 11th
- ▶ Link to slides
<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=16-OII-01>
- ▶ Participation from Energy Commission, State Water Board, Department of Water Resources and stakeholders
- ▶ Comments are due by 5:00 p.m. October 28th, 2016
- ▶ To submit electronically:
 - Go to <http://energy.ca.gov/appliances/2016-OII-01/>
 - Click on "Submit eComment"
- ▶ To send a hard copy:
 - California Energy Commission
 - Dockets Office, MS-4
 - Re: Docket No. 16-OII-01
 - 1516 Ninth Street
 - Sacramento, CA 95814-5512

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Use Water More Wisely

EMERGENCY REGULATIONS

WATER USE TARGETS AND STANDARDS

REPORTING REQUIREMENTS

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Implementation: Use Water More Wisely

- ▶ Modified emergency drought regulations (EO #1)
- ▶ Board will develop proposal to achieve mandatory reduction to build off 25% (EO #1)
- ▶ Board and DWR to make monthly reporting permanent (EO #3)

Implementation: Use Water More Wisely

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- ▶ State agencies to establish a long term framework for new water use targets based on water budgets calculated from standards for 4 sectors (EO #2)
 - ▶ Indoor residential
 - ▶ Outdoor irrigation
 - ▶ Commercial, Industrial, Institutional (CII)
 - ▶ Distribution System Loss

Implementation: Efficiency Standards

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- ▶ **Indoor Standard:**
 - ▶ Provisional standard of 55 GPCD
 - ▶ Revise downward in 2018, based on additional studies, to be achieved by 2025.
- ▶ **Outdoor Standard:**
 - ▶ Provisional standards based on Model Water Efficient Landscape Ordinance:
 - ▶ 0.8 reference Evapotranspiration (Et) (pre-2010)
 - ▶ 0.7 reference Et (2010-2015)
 - ▶ 0.55 (residential) or 0.45 (commercial) post 2015
 - ▶ 1.0 for special landscapes
 - ▶ Revise downward in 2018 based on analysis of existing data and pilot project with 30 agencies

Implementation: Efficiency Standards

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- ▶ **Commercial, Industrial, & Institutional (CII)**
 - ▶ Proposed approach: Establish performance measures
 - ▶ All dedicated irrigation accounts will be on a budget using outdoor standards
 - ▶ Require classification (NAICS) by (2021), develop benchmarks.
 - ▶ Require all mixed meter accounts to split off landscape greater than a size threshold to dedicated irrigation accounts (or equivalent technology) by 2021.
 - ▶ Audits and water management plans for reporting efficiency in CII water use. Audits and plans for subset of CII customers, based on volume, percentage, or number.
- ▶ **Water Loss**
 - ▶ SB 555 Standards
 - ▶ State Water Board rulemaking to commence in 2019 with standards set in 2020
 - ▶ Will include real and apparent losses

Draft Framework: Water Use Target Calculation

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Targets calculated by adding the volume or GPCD from sector budgets, but not CII

Illustrative Target Calculation with Sample Numbers:

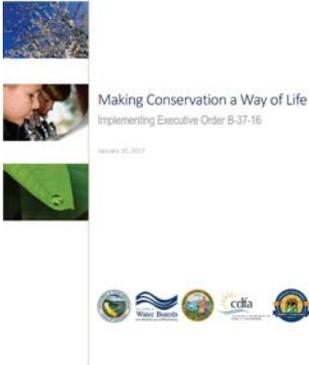
<u>Sector</u>	<u>Budget (vol.)</u>	<u>Budget (GPCD)</u>
Indoor Residential	4,570,744	55
Outdoor Landscape	3,729,166	44
<u>Water Loss</u>	<u>530,560</u>	<u>7</u>
TARGET	10,482,849 (CCF)	128 (GPCD)

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Implementation: Use Water More Wisely

- ▶ Progress reports beginning in 2019 to describe actions suppliers will take to meet 2025 requirements.
- ▶ Compliance in 2025 reporting period, as documented in 2026 compliance report and 2025 UWMP (submitted in July 2026)
- ▶ State agencies are developing methods to support compliance from 2021 through 2025.

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Report

Making Conservation a Way of Life
Implementing Executive Order B-37-16
January 25, 2017

Water Resources Center
California State University, Sacramento

Cover image for illustrative purposes only.

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Report Outline

Chapter 1. Introduction

- ▶ Purpose of this Report
- ▶ Development Process
- ▶ Organization

Chapter 2. Water Conservation in California

- ▶ History of Water Conservation
- ▶ Recent Events and Actions (CWAP, Drought)

Chapter 3. Making Conservation a Way of Life

- ▶ Executive Order B-37-16
- ▶ Framework for Implementation (Intro for Chapters 4&5)
- ▶ Organization of Actions and Recommendations
- ▶ Related Programs and Activities

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Report Outline (cont'd)

Chapter 4. Directives that Will be Implemented Within Existing Authorities

-  ▶ Emergency Water conservation Regulation for 2017 (EO 1)
-  ▶ Permanent Prohibition in Wasteful Practices (EO 4)
-  ▶ Reduce Water Supplier Leaks and Water Losses (EO 5; EO 6)
-  ▶ Certification of Innovative Technologies for Water Conservation and Energy Efficiency (EO 7)

The following will be reported for each item:

- Need for change
- Directive
- Implementation

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Report Outline (cont'd)

Chapter 5. Recommendations that Require Additional Authority for Implementation

- 


▶ New Water use Targets based on strengthened Standards (EO 2&3)
- 


▶ Strengthen Urban Water Shortage Contingency Plan (EO 8&9; EO 6)
- 


▶ Improve Drought Planning for Small Water Suppliers and Rural Communities (EO 10; EO 6)
- 


▶ Update Agricultural Water Management Plan Requirements (EO 11, 12&13; EO 6)

The following will be reported for each item:

- Need for Change
- Directive
- Recommendations
- Reporting, Compliance and Enforcement
- Relationship to Other EO recommendations
- Other Recommended Actions

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Report Outline (cont'd)

Chapter 6. Framework for Implementation

- ▶ Summary
- ▶ Schedule

Report Schedule

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Aggressive Schedule (updated October 19, 2016)

- ▶ Public Draft: November 14, 2016
- ▶ UAG/AAG Joint Webinar & Public workshop: November 18, 2016
- ▶ Public Comments Due: November 23, 2016 (midnight)
- ▶ Final: January 10, 2017 (mandated date)

EO B-37-16 | Timeline

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The diagram features a large light green arrow pointing to the right, representing the timeline. A dark blue arrow points down to the arrow at the text "We are here".

Stakeholder Advisory Group Meetings and Workshops

January 10, 2017
• Final Report

Summer –Fall 2016
• Develop Approach & Draft Recommendations

November 2016
• Public Draft (Nov. 14)
• Public Workshop (Nov. 18)
• Public comments Due (Nov. 23)

Next Stages
• Implement New Requirements If Applicable
• Legislative Changes If Needed

