

# Update on Executive Order B-37-16

MAKING CONSERVATION A CALIFORNIA WAY OF LIFE



OCTOBER 5, 2016

# Presentation Overview

- ▶ Introduction
- ▶ Overview of Executive Order B-37-16
- ▶ Implementation and Agency Actions
- ▶ Timeline and Next Steps

## EO B-37-16 Overview

*Issued May 9<sup>th</sup>, 2016*

*Four key components, with  
13 directives.*

- ▶ *Use Water More Wisely*
- ▶ *Eliminate Water Waste*
- ▶ *Strengthen Local Drought Resilience*
- ▶ *Improve Agricultural Water Use Efficiency and Drought Planning*

# EO Overview: Use Water More Wisely

- ▶ EO Directives #1 through #3:
  - ▶ Adjust emergency conservation regulations, develop proposal to achieve a mandatory reduction that builds off 25% previous conservation targets
  - ▶ Set water use targets by establishing statewide standards for indoor water use, outdoor water use, water loss, and CII (commercial, industrial, and institutional)
  - ▶ Permanently require monthly reporting from suppliers on water use, conservation, and enforcement

# EO Overview: Eliminate Water Waste

- ▶ EO Directives #4 through #7:
  - ▶ Permanently prohibit practices that waste water
  - ▶ Minimize system leaks
  - ▶ Accelerate data collection, improve management, and prioritize capital projects to reduce water waste
  - ▶ Certify innovative water conservation and water loss detection and control technologies that also increase energy efficiency

# EO Overview: Strengthen Local Drought Resilience

- ▶ EO Directives #8 through #10:
  - ▶ DWR to strengthen requirements for urban water shortage contingency plans (WSCPs), creating common standards and planning for at least five years of drought.
  - ▶ For areas not covered by a WSCP, DWR shall work with counties to facilitate improved drought planning for small water suppliers and rural communities.

# EO Overview: Improve Ag Water Use Efficiency and Drought Planning

- ▶ EO Directives #11 through 13:
  - ▶ DWR and CDFA update existing requirements for Agricultural Water Management Plans
  - ▶ DWR to permanently require completion of Agricultural Water Management Plans by water suppliers with over 10,000 irrigated acres of land

# EO Overview: Additional Elements

- ▶ EO also includes requirement that:
  - ▶ DWR, Water Board, and CPUC shall develop methods to ensure compliance with the provisions of the Order, including technical and financial assistance, agency oversight, and, if necessary, enforcement action by the Water Board to address non-compliant water suppliers.

# Agency Implementation

*ACTIONS THE EO AGENCIES  
WILL TAKE TO IMPLEMENT  
THE EXECUTIVE ORDER*

# Implementation: Use Water More Wisely

*EMERGENCY REGULATIONS*

*WATER USE TARGETS AND  
STANDARDS*

*REPORTING REQUIREMENTS*

# 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

- ▶ 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

- ▶ **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

- ▶ **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

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
Water Loss	530,560	7
<b>TARGET</b>	<b>10,482,849 (CCF)</b>	<b>128 (GPCD)</b>

# 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.

# Implementation: Eliminate Water Waste

*MINIMIZE WATER LOSS*

*&*

*INNOVATIVE  
TECHNOLOGIES*

# Implementation: Eliminate Water Waste

- ▶ Identify urban retail water suppliers with high water losses. Offer technical assistance
- ▶ Funding assistance for small suppliers through the Drinking Water State Revolving Fund
- ▶ Board to develop permanent regulations prohibiting certain practices that waste potable water (EO #4)
- ▶ Other actions (data, loan programs, ag plans, reduce non-revenue)
- ▶ Energy Commission to certify innovate water conservation and loss detection and control technologies that increase efficiency.

# Implementation: Energy Commission Workshop

- ▶ Tuesday, October 11, 2016 10:00 a.m.
  - ▶ CALIFORNIA ENERGY COMMISSION, Rosenfeld Hearing Room
  - ▶ 1516 Ninth Street First Floor
  - ▶ Sacramento, California 95814
  - ▶ Phone and webinar options available
  - ▶ [http://docketpublic.energy.ca.gov/PublicDocuments/16-OII-01/TN213881\\_20161004T081745\\_Corrected\\_Public\\_Workshop\\_Innovative\\_Water\\_Conservation\\_and\\_Wat.pdf](http://docketpublic.energy.ca.gov/PublicDocuments/16-OII-01/TN213881_20161004T081745_Corrected_Public_Workshop_Innovative_Water_Conservation_and_Wat.pdf)
- ▶ Purpose: to provide opportunity to respond and discuss request to gather information on innovative water conservation and water loss detection and control technologies as part of the Governor's Executive Order.
- ▶ Contact Sean Steffensen (Sean.Steffensen@energy.ca.gov)

Implementation:  
Strengthen  
Local Drought  
Resilience

*WATER SHORTAGE  
CONTINGENCY PLANS*

*IMPROVE DROUGHT  
PLANNING FOR SMALL WATER  
SUPPLIERS AND RURAL  
COMMUNITIES*

# Implementation: Strengthen Drought Resilience

- ▶ **Plan:** Develop supplier-specific WSCP with defined elements
- ▶ **Assess:** 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)
- ▶ **Reporting:**
  - ▶ Submit annual assessment to State agencies
  - ▶ Submit WSCP every 5-years with UWMP
  - ▶ Submit monthly status when certain stages activated

# Implementation: Strengthen Drought Resilience

## 9 Proposed Elements of WSCPs:

1. Defines “Annual Assessment” process and timeline
2. Defines local criteria that would initiate responses
3. Defines local response actions to mitigate actual or potential shortage:
4. Establishes a “Communications Plan” with budgets, messages, methods, etc., that vary with responses
5. Demonstrates existing/new implementation authority
6. Addresses financial elements
7. Articulates reporting process, data, and timing
8. Details Customer Compliance and Enforcement mechanisms
9. Establishes a Review/Improvement Process and details a customer exemption process

# Assessment and Stress Test

- ▶ Proposed variants:
  - ▶ 1. Submitted to the State annually, current year supply/demand assessment plus five year stress test
  - ▶ 2. Submitted to the State annually, current year supply/demand assessment and submit to State a five year stress test with UWMP every five years.\*
- 
- ▶ \*No requirement for the water supplier to review or report their 5 year stress test each year

# Implementation: Strengthen Drought Resilience

## Drought Planning for Small Water Suppliers and Rural Communities

- ▶ Currently have agricultural and urban water supplier WSCPs, county self supplied domestic users pilot project, and CRWA rural WSCPs.
- ▶ Looking how to integrate these and establish a broader county wide WSCP to address rural communities and small water systems that are not a component of WSCPs.
- ▶ Looking how to integrate the county approach into a Local Hazard Mitigation Program
- ▶ Meeting/webinar October 13, 2016 to discuss issues, obstacles, roles and responsibilities related to implementing this EO Action

Implementation:  
Improve Ag  
Water Use  
Efficiency &  
Drought Planning

*AGRICULTURAL WATER  
MANAGEMENT PLANS*

# Implementation: Ag Water Use

- ▶ CDFA and DWR Roles
- ▶ Agricultural Advisory Group
- ▶ CDFA
  - ▶ Houses the State Water Efficiency and Enhancement Program
  - ▶ Collaboration Process
  - ▶ Feedback on strategies to address EO Directives
  - ▶ Representation on Agricultural Advisory Group
- ▶ DWR
  - ▶ Update existing Ag Water Management Plan requirements

# Implementation: Ag Water Use

- ▶ Proposing 2-element framework:
  1. Outcome/objective based planning
  2. Measure efficiency by:
    1. Water Balances
    2. Calculation of water management fractions
- ▶ Drought management plans as part of AWMPs
- ▶ Reporting
  - ▶ Agricultural water suppliers with over 10,000 acres of irrigated land adopt AWMPs by December 31, 2020 and submit them to DWR within a month of adoption to comply with updated AWMP requirements.

# Next Steps and Timeline

*DELIVERABLES, REPORT  
DEVELOPMENT, AND  
TIMELINE*

# Stakeholder Outreach

- ▶ Listening sessions immediately following EO
- ▶ The EO requires stakeholder engagement:
  - ▶ Developed Urban and Agricultural Advisory Groups
  - ▶ Additional Technical Workgroups
- ▶ Public workshop following release of Framework Report

# Framework Report

- ▶ The EO requires release of draft framework by January 10, 2017.
- ▶ Framework will include proposed strengthened efficiency standards, updated draft WSCP requirements, updated draft Ag Management Plan, and other required elements.
  - ▶ Will identify if legislative and/or regulatory changes are needed to implement the framework
- ▶ Estimated release of public draft report in early November, 2016
  - ▶ Public comments and input received, will be considered in development of final report
- ▶ Final Report released January 10<sup>th</sup>, 2017
  - ▶ Public workshop following release

# EO B-37-16 | Timeline



**January 10, 2017**

- Final Report

Stakeholder Advisory Group Meetings and Workshops

A large teal arrow pointing to the right, containing four circular markers. The first marker is filled with teal, and the others are empty.

Summer –Fall 2016

- Develop Approach & Draft Recommendations

November 2016

- Public Draft and Public Workshop (Nov. 4)
- Public comments Due (Nov. 14)

Next Stages

- Implement New Requirements If Applicable
- Legislative Changes If Needed

Questions?