

CLIMATE ACTION TEAM
Water-Energy (WET-CAT) Working Group
Near-Term Implementation Plan

Measure W-1 / Water Management
CAS Strategy 3: Aggressively Increase Water Use Efficiency
Near Term Action 3.a: Statewide Reduction in Water Use

Working Group Overview:

The Water-Energy Team of the Climate Action Team (WET-CAT) focuses its efforts on both green house gas (GHG) emission reduction and adaptation actions affecting the portion of the energy sector that supports the storage, transport and delivery of water for agricultural, residential and commercial needs. The Energy Commission estimates that approximately 19% of all electricity and 30% of non-power plant natural gas (i.e. natural gas not used to generate electricity) used in California is for the conveyance, treatment, distribution, and end use of water.

Workgroup Agencies:

Department of Water Resources, State Water Resources Control Board, California Energy Commission, and California Public Utilities Commission

Measure / Strategy

- A) Description: The general measure for water in the Scoping Plan is to “continue efficiency programs and use cleaner energy sources to move and treat water.” Measure W-1, Water Use Efficiency, is directed at implementing strategies to achieve a statewide 20 percent reduction in per capita water use by 2020 for the urban water use and measures for implementing agricultural water use efficiency. As directed by the governor, a multi-agency team issued 20x2020 Water Conservation Plan (February 2010) to achieve the urban reduction target. As this plan was being developed, a Delta legislation package was enacted in November 2009, including SB X7 7, which established the 20 percent reduction in per capita urban water use into law and included certain agricultural water management reporting requirements. Near Term Action a of Water Management Strategy 3 is considered to be accomplished through the implementation of SB X7 7 and is the subject of this document.
- B) Agencies Involved: Department of Water Resources (DWR), State Water Resources Control Board, California Public Utilities Commission, California Department of Public Health, California Bay-Delta Authority (or successor agency), California Urban Water Conservation Council, Agricultural Water Management Council, as specified in SB X7 7.
- C) Scoping Plan/Adaptation Plan Reference: Measure No. W-1 Water Use Efficiency in *Climate Change Scoping Plan* (ARB, December 2008); Water Management Strategy 3: Aggressively Increase Water Use Efficiency, in the *2009 California Climate Adaptation*

Strategy (Natural Resources Agency, 2009). This document applies only to Near Term Action (a) of Strategy 3: Statewide Reduction in Water Use (implement strategies to achieve a statewide 20 percent reduction in per capita water use by 2020).

- D) Metrics: The metric for this action is per capita urban water use. A State Agency Team established the 2005 Statewide Baseline (192 GPCD – gallons per capita per day) and Target (154 GPCD) in 2020, as well as the baselines and targets for the ten individual hydrologic regions in the State (November 2009). The baseline and targets for purposes of SB X7 7 may have to be adjusted to conform to the law (Water Code Section 10608.16). As provided for in SB X7 7, DWR will establish methodologies and criteria for measuring the baseline, target, and compliance amounts for individual urban water suppliers. There are at least two ways to monitor these metrics: (1) urban water management plan reports, which are submitted to DWR by urban water suppliers every five years required by law; and (2) a standardized water use reporting form which is under development by DWR and will become available for the urban water suppliers to use by the end of 2010.
- E) Cross-cutting Issues: TBD as measure developed.
- F) Tasks and Deliverables: To achieve a 20% reduction in per capita water use statewide by year 2020 through water conservation and water use efficiency as specified in SB X7 7, DWR must implement five tasks:

Task 1: Development of the Alternative Best Management Practices (BMPs) for the Commercial, Industrial, & Institutional (CII) Sector

- 1) Description: DWR shall in conjunction with the California Urban Water Conservation Council (CUWCC) convene a task force consisting of academic experts, urban retail water suppliers, environmental organizations, commercial, industrial, and institutional water users to develop alternative best management practices for commercial, industrial, & institutional (CII) water sector. (Water Code Section 10608.43).
- 2) Deliverables: BMPs Report for the CII Sector.
- 3) DWR is the lead agency; CUWCC will provide consulting assistance; other stakeholders include academic experts, urban retail water suppliers, environmental organizations, and CII water users.
- 4) Timeline: A Task Force will be convened by April 1, 2010, and the final report will be delivered to the legislature by April 1, 2012.

Task 2: Baseline Development for Various Sectors

- 1) Description: DWR through a public process and in consultation with CUWCC shall develop technical methodologies and criteria for baseline daily per capita use,

baseline commercial, industrial, and institutional water use, compliance daily per capita water use, gross water use, service area population, indoor residential water use and landscaped area water use and post on its website. (Water Code Section 10608.20(h)(1) through (h)(2)).

- 2) Deliverables: A report containing methodologies and criteria.
- 3) Agency Roles: DWR is the lead agency; CUWCC will provide consulting assistance.
- 4) Timeline: The methodologies and criteria must be posted on DWR website by October 1, 2010.

Task 3: Development of Urban Water Use Target Calculation Method

- 1) Description: DWR shall develop a method for calculating urban water use targets that identify per capita use targets that cumulatively result in a statewide 20% reduction and report to the Legislature by December 31, 2010 (and update by 2014). (Water Code Section 10608.20(b)(4)).
- 2) Deliverables: A report for urban water use target calculation method.
- 3) Agency Roles: DWR is the lead agency; CUWCC will provide consulting assistance.
- 4) Timeline: A report for urban water use target calculation method will be completed and delivered to the legislature by December 31, 2010, and the report will be further updated by year 2014.

Task 4: Development of SBX7-7 Implementation Regulations

- 1) Description: DWR shall adopt regulations for implementation of the SBX7-7 provisions related to process water (water used for producing a product or product content or water used for research and development). (Water Code Section 10608.20(i)(1), (2)).
- 2) Deliverables: Regulations
- 3) Agency Roles: DWR is the lead agency; DWR is the lead agency.
- 4) Timeline: A due date is not listed in SB X7 7. The planned adoption date is by June 30, 2011.

Task 5: Interim Review and Report of Water Conservation 20X2020

- 1) Description: DWR shall review 2015 urban water management plans and report to the Legislature on the progress toward achieving a 20% reduction in urban water use. (Water Code Section 10608.42).
- 2) Deliverables: Report to the state Legislature.
- 3) Agency Roles: DWR is the lead agency.
- 4) Timeline: Submit the report to the legislature by December 31, 2016.

Summary Table:

Deliverable	Agencies	Deadline
CII BMPs Task Force	DWR	Convened by 4/1/2010, completed by 4/1/2012
CII BMPs Report	DWR	To legislature by 4/1/2012
Water Use Baselines Calculation Methodologies and Criteria	DWR	Posted by 10/1/2010
A Method for Calculating Urban Water Use Targets	DWR	1. Send it to legislature by 12/31/10 2. Update the method by 2014
SBX7-7 Implementation Regulations	DWR	No statutory deadline, planned completion 6/30/2011
An Interim report for Water Use Reduction of 20X2020	DWR	Submit to the legislature by 12/31/16