



California Energy Commission

Landscaping Irrigation Efficiency Standards & Labeling

Efficiency Committee Workshop
Sacramento, CA

April 1, 2009

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Announcements

- Facilities and Logistics
- Call-in Participation
 - Call-in number: **888-469-1980**
 - Passcode: **Irrigation**
 - Call Leader: **Lorraine White**
 - Follow along on the Webcast: **www.energy.ca.gov**
- In-person Participation
 - Blue Cards





Agenda

- Overview of AB 1881
- Irrigation Devices and Recommendations
- Testing Protocols
- EPA's WaterSense™ Program and Irrigation Efficiency
- Efficiency Efforts Elsewhere in the Country
- DWR's Program: the Model Landscape Ordinance
- Landscape Irrigation Best Management Practices
- A Practitioners Point of View
- Local Agency Perspectives and Recommendations
- An Electric Utility Interest in Water Efficiency
- Public Comments



Landscape Irrigation Efficiency

- Requirements of AB 1881 (Laird, Chapter 559, Statutes of 2006)
 - Energy Commission
 - Efficiency performance standards and labeling requirements for controllers and sensors by January 1, 2010
 - Report schedule for emitters and valves to Legislature
 - Prohibit sale or installation of non-compliant equipment by January 1, 2012
 - DWR
 - Update Model Landscape Ordinance
 - Local Agencies
 - Adopt Model Ordinance or better by January 1, 2010
 - Separate meters for certain new connections by January 1, 2008



Broad Support

Association of CA Water Agencies

**CA Association of Nurseries &
Growers**

CA Farm Bureau Federation

**CA Landscape Contractors
Association**

CA Sod Producers Association

**CA Urban Water Conservation
Council**

Council for a Green Environment

Delta Bluegrass Company

East Bay Municipal Utilities District

Eastern Municipal Water District

Friends of the River

Irrigation Association

**Metropolitan Water District of
Southern CA**

Mono Lake Committee

Natural Resources Defense Council

Olivenhain Municipal Water District

Planning and Conservation League

San Diego County Water Authority

Santa Clara Valley Water District

Sonoma County

Sierra Club

**Water Replenishment District of
Southern CA**



But Why the California *Energy* Commission?

Charged with

- Licensing thermal power plants 50 MWs and larger
- **Adopting appliance and building energy efficiency standards**
 - **first adopted standards on plumbing products (showerheads, faucets) in late 1977, which first took effect December 22, 1978**
- Forecasting state energy use
- Conducting public interest energy research
- Maintaining energy information and performing analysis
- Proposing to the Governor integrated state energy policies
- Renewable energy development incentives and policies



Efficiency Standards & Labeling

- Appliance Efficiency Regulations, (California Code of Regulations, Title 20, Sections 1601 through 1608)
- Public Resources Code sec 25402(c), requires the CEC to set standards:
 - for all appliances that use a significant amount of energy or water
 - that are feasible, and must reduce energy or water demand growth
 - that are cost-effective to consumers over the life cycle of the appliance
- AB 1881's Purpose - reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy **OR** water



Water-Energy Policies

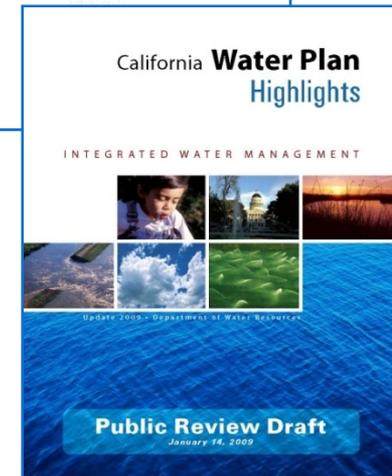
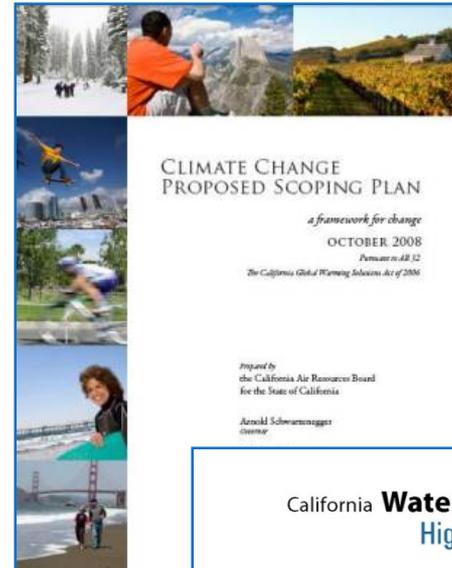


- 2003 IEPR - Power Generation
 - Non-fresh Supplies or Alternatives
 - ZLD
- 2005 IEPR – System and End Use Conservation and Efficiency
 - Saving Water Saves Energy
 - Reduce Peak Demand
 - Renewable and Self-Generation
- 2007 IEPR – Tools and Implementation
 - EM&V



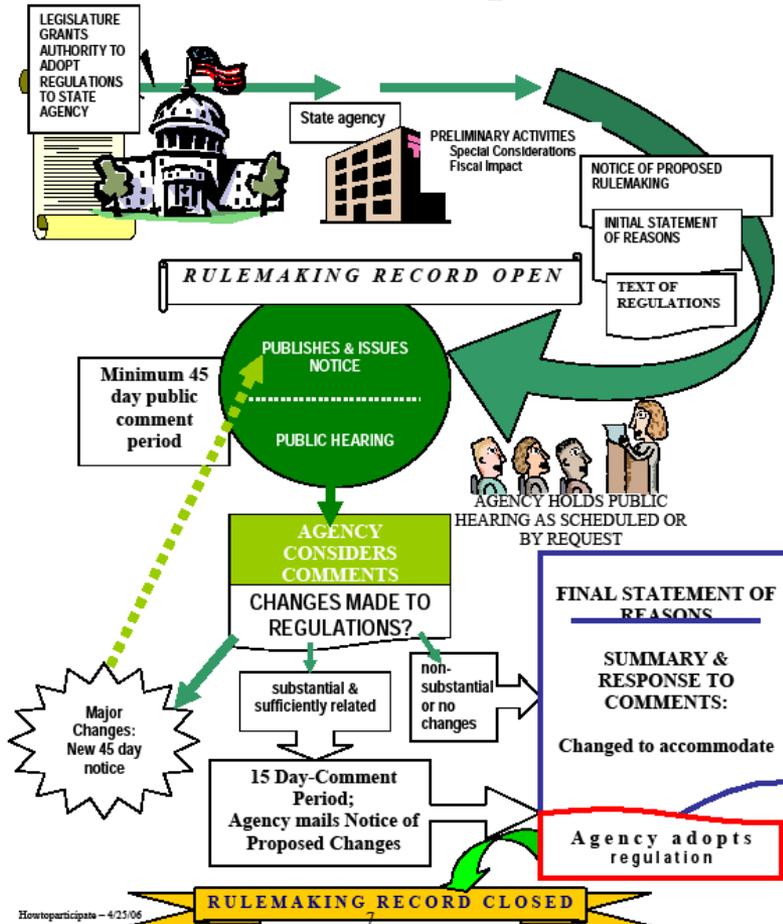
Implementation of Laws & Policies

- California Constitution and statutes
- ARB Scoping Plan
 - Water Conservation is expected to reduce GHG's by 1.4 MMTCO₂e by 2020
- Governor's call for a 20% reduction in water demand by 2020
- State Water Plan – Use and reuse water significantly more efficiently





The Rulemaking Process



Phases

- Preliminary Activities
 - Scoping
 - Information and data collection
 - Public outreach
 - Analyses and supporting documents
 - Draft Language
 - Define standard, test methods & labeling requirements
- Official Rulemaking
 - Publish Notice
 - Public Hearing(s)
 - Agency Adopts Regulations
- OAL Review



Issues to Address

- How to compare performance of equipment (i.e., "dumb" and "smart" controllers) ?
- What considerations should be included in the cost-effectiveness evaluation?
- What studies and assessments should the Commission rely upon?



- Question of Enforcement - Manufacturers must certify to the Commission they meet the standards in order to sell in the state [Sect. 25402 (c)(1)].
 - How best do we enforce installation requirements?
- **ISSUES YOU RECOMMEND WE ADDRESS**



Input & Participation

- Comments regarding Scope
 - Submit by 5:00 p.m. on Wednesday, April 8, 2009
 - Include the docket number 09-AAER-1A and indicate “2009 Irrigation Equipment Performance Standards and Labeling Requirements Proceeding Scope” in the subject line
- Public Adviser’s Office at (916) 654-4489 or (800) 822-6228 or by e-mail at pao@energy.state.ca.us
- Contribute studies and information
- Service list
- Future workshops and meetings





California Energy Commission

Schedule

Phase	
Preliminary Activities	Hold Workshop: April 1, 2009 Publish Scoping Order: May 1, 2009 Technical Workshop #1: May 2009 Technical Workshop #2: June 2009 Staff Report: July 2009
Formal Rulemaking	Target date to publish proposed regulations in the registry: Aug 14, 2009 Public hearing: week of September 14, 2009 Revise language if needed and publish for comments: October – November 2009 Commission Approval: Dec 16, 2009
OAL Review	Submit final packet to OAL: Jan 4, 2010 OAL decision: Feb 18, 2010



Proceeding Information

- Energy Commission's Website:
 - <http://www.energy.ca.gov/appliances/irrigation/>
- General information: Lorraine White
 - lwhite@energy.state.ca.us
 - 916 654-4075
- Office of Administrative Law
 - http://www.oal.ca.gov/reg_notice.htm
- Department of Water Resources
 - <http://www.owue.water.ca.gov/landscape/ord/updatedOrd.cfm/>





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Questions ?

