

Invitation to Participate Water Appliances

2013 Appliance Efficiency Rulemaking
California Energy Commission

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The California Energy Commission

- ❑ The state's primary energy policy and planning agency, created by the Legislature in 1974
- ❑ Responsibilities include promoting energy efficiency and conservation by setting minimum appliance and building efficiency standards, and other cost-effective measures
- ❑ The Commission's appliance and building energy efficiency standards have saved Californians more than \$74 billion in reduced electricity bills since 1975



Appliance Efficiency – A Statutory Mandate

Warren-Alquist State Energy Resources Conservation and Development Act

Public Resources Code Section 25402(c)

Requires the Commission to adopt minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy and water efficient appliances whose use requires a significant amount of energy or water on a statewide basis.



Scoping Workshop

August 31, 2011

- ❑ The Commission held a Public Workshop to seek comments about the proposed scope of potential new appliance efficiency measures.

- ❑ Interested parties
 - gave technical presentations
 - provided comments
 - submitted proposals for various appliances



Order Instituting Rulemaking

March 14, 2012

- ❑ The Commission issued an Order Instituting Rulemaking (OIR) to begin the process of considering standards, test procedures, labeling requirements, and other efficiency measures for a number of appliances.
- ❑ The rulemaking was divided into three phases based on the information provided by the stakeholders and staff analysis.
- ❑ More information related to this proceeding is available online.

<http://www.energy.ca.gov/appliances/2013rulemaking/index.html>



Purpose of Invitation to Participate

- ❑ The Commission is gathering information to determine how to proceed with products listed in Phase 1 of the OIR.
- ❑ The ITP is an opportunity for stakeholders to inform the Commission's policy, direction, and process.
- ❑ ITP requests product, market, and other relevant information.
- ❑ All interested parties are encouraged to take advantage of this important opportunity to shape the development of draft efficiency standards and measures.



Phase 1 Products

- ❑ **Consumer Electronics**
(computers, displays, game consoles and set-top boxes)

- ❑ **Lighting**
(fluorescent dimming ballasts, light-emitting diodes and multifaceted reflector lamps)

- ❑ **Water Appliances** (faucets, toilets, urinals, and water meters)

- ❑ **Other Appliances** (commercial clothes dryers, air filter labeling, residential pool pumps & motors and portable electric spa labeling)



Water Products

- Faucets
- Toilets
- Urinals
- Water Meters



Basic Information

Basic information requested for all water products:

- ❑ Product Definition and Scope
- ❑ Sources of Test Data
- ❑ Existing Standards and Standards under Development
- ❑ Product Lifetime
- ❑ Product Development Trends
- ❑ Design & Sales Cycle



All Water Products

What are the technology options or features that allow faucets, urinals, toilets and water meters to save water?

- How much water does each save?
- What are the embedded energy savings from the water saved?
- How much does each cost a manufacturer to implement on a per product basis?



Information Request for All Products

- ❑ What are the annual historic and projected sales of water products from 2009-2015 (in CA and nationwide)?
- ❑ What is the market share of water efficient (or accuracy for water meters) products? Provide a brief description of the performance of the units.
- ❑ Is there a difference between units sold to residential and commercial sectors?
- ❑ Estimated percentile annual growth sale (CA and nation).
- ❑ How many small businesses are involved in the manufacture, sale, or installation of these products?



Information Request for All Products

- ❑ Are there any test markets for water efficient units?
- ❑ Breakdown of costs per unit by performance
- ❑ Product duty cycle



Consumer Acceptance

- ❑ What surveys have been done to gauge consumers' acceptance and performance of more efficient units?
 - False flushes of toilets and urinals?
 - Multiple flushes needed?
 - Sewer system back-up?
 - Hot water not arrive for low flow faucets?
- ❑ Is there any problem due to installation of new units, and whether they perform properly with the current plumbing system and codes?



Information Request for All Products

- ❑ Is there a different design duty cycle for the new and existing units? Residential and commercial? What are they?
- ❑ What is the design life of new and existing units?
- ❑ What test methods that were used to test the performance of the appliance?
 - Was there any difficulty, or issue with the mentioned test methods?
 - Is there any improvement needed to improve the mentioned test methods?



Information Request for Toilets

- Type of water efficient units and description of their technologies used to achieve the designed performance. For example, single flush (gravity, pressure assist, electro-hydraulic, valve type, and others) and dual flush (gravity, pressure assist, electro-hydraulic, valve type, and others)
 - Their performance specifications, i.e., gallon per flush.



Information Request for Urinals

- Type of water efficient units and description of their technologies used to achieve the designed performance. For example, tank/gravity, pressure assist, electro-hydraulic, valve type, and others
 - Their performance specifications, i.e., gallon per flush.



Information Request for Faucets

- Type of water efficient units and description of their technologies used to achieve the designed performance.
 - Their performance specifications, i.e., gallon per minute.



Water Meters

- Type of water meters and description of their technologies used to achieve the low flow detection and accuracy.
 - Their low flow performance specifications (i.e., minimum detectable gallon per minute flow)
 - Who is expected to bear the costs of installing/replacing water meters?
 - ✓ If the utility providers will bear this cost, can the costs of upgrading the water meters be recovered by avoiding loss of money from leaks?



How to Submit Data & Information

- ❑ Responses to the Invitation should be submitted in writing to the Dockets Unit by 4:00 p.m. (Pacific Daylight Savings Time) on May 9, 2013.
- ❑ The Commission encourages interested parties to send information **up to 5 MB** by e-mail at docket@energy.ca.gov
- ❑ To comment on water appliances please include **Docket # 12-AAER-2C** in the subject line.



How to Submit Data & Information

(Continued)

- If the file size is more than 5 MB, if the information includes an application for confidential designation, or if you prefer, paper copies of responses with electronic information provided on a CD or DVD may be sent to:

California Energy Commission
Dockets Office, MS-4
Re: Docket No. **12-AAER-2C**
1516 Ninth Street
Sacramento, CA 95814-5512



Confidentiality of Data

If interested parties need to maintain the confidentiality of specific data or information, they should contact Jared Babula in the Commission's Chief Counsel's Office *before* submitting a response to this Invitation. Otherwise, all responses received will become publicly available.

Jared Babula,

California Energy Commission,

Office of the Chief

1516 Ninth Street, MS 14, Sacramento, CA 95814-5512

Telephone: (916) 651-1462

Email: jared.babula@energy.ca.gov



Next Steps

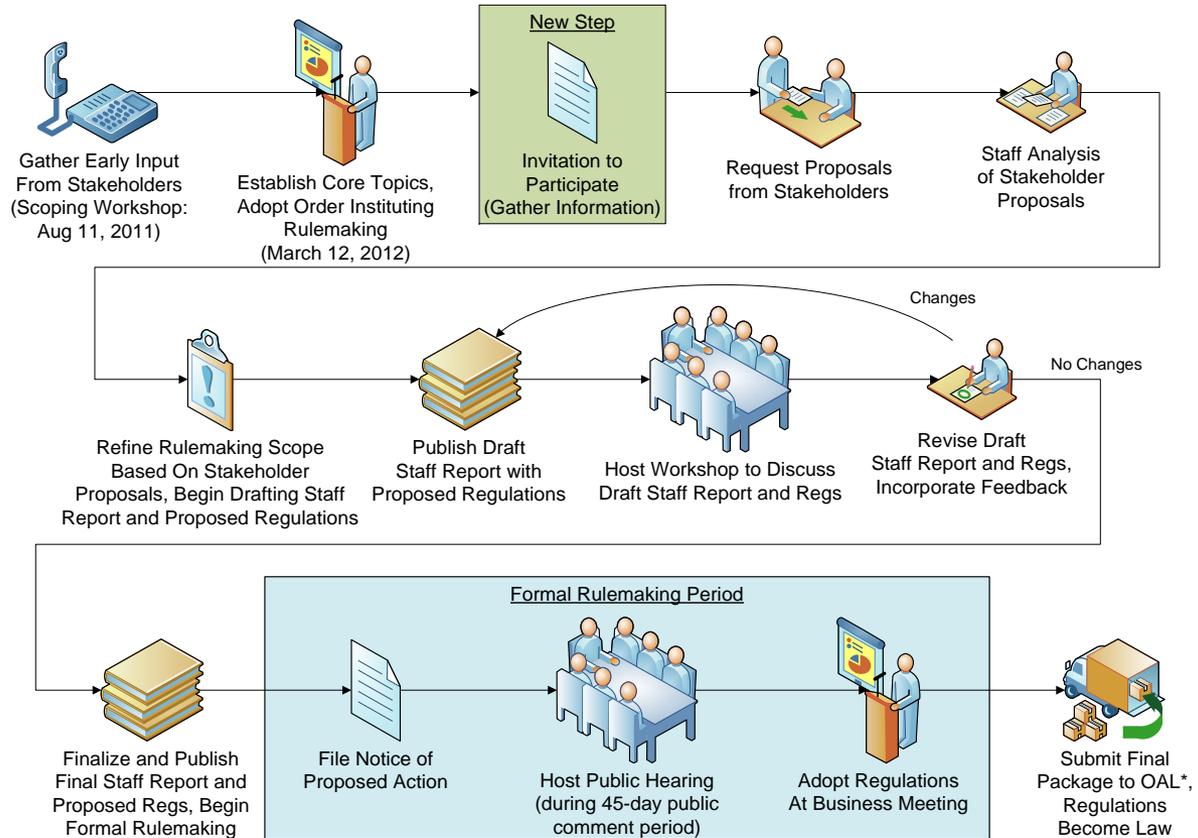
- ❑ Public workshop after the close of the ITP comment period to consider the merits of information and data received.
- ❑ Following the workshop, the Commission will request proposals for updated efficiency standards or measures.
- ❑ These proposals should be based on the information received through the ITP.
- ❑ Commission staff are available to discuss questions and concerns at anytime during the proceeding.



Public Participation

Appliance Energy Efficiency Rulemaking Process

3/22/2013



*Office of Administrative Law



Contact Information

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Please submit data and information to
Product-Specific Docket #12-AAER-2C
at docket@energy.ca.gov

The ITP is available online:

<http://www.energy.ca.gov/appliances/2013rulemaking/index.html>

