

# Invitation to Participate Residential Pool Pumps & Motors Electric Spa Labeling

2013 Appliance Efficiency Rulemaking  
California Energy Commission

April 09, 2013

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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)



# Product Information

## Basic Information Request:

- ❑ Product definitions (there are definitions in existing code)
- ❑ Sales information related to pool motors/pumps sold in California.
- ❑ Costs of lower efficiency pool motors/pumps, higher efficiency pool pump/motors, variable speed motors, and two speed motors
- ❑ Products' duty cycle and per unit estimated energy consumption
- ❑ Design life cycle and incremental cost of energy efficiency improvement



# Product Information

- ❑ Test methods to measure the energy consumption
- ❑ Sources of test data
- ❑ Energy Use Metrics
- ❑ Product Development Trends
- ❑ Market barriers to Energy Efficiency
- ❑ How do consumers identify efficient products on the market?
- ❑ How many small businesses are involved in the manufacture, sale, or installation of these products?
- ❑ Any other data relevant to this proceeding



# Residential Pool Pumps & Motors

- ❑ Current annual sales 2008-2013 and estimated Compound Annual Growth Rate (in CA and nation).
- ❑ What pool pumps models are currently in the market, please provide description/characteristics of the unit i.e. single speed, variable speed, and their efficiency.
- ❑ Do higher efficiency pumps require additional equipment to operate properly in new or existing pools Such as timers or controllers etc?
- ❑ What are the time and installation cost to replace an existing system and how does that vary with different efficiency and technology pool pump motors?
- ❑ What test procedure should be used or modified to measure the efficiency of the pump/motor?



# Residential Pool Pumps & Motors

- ❑ Are there any new features in pool motors/pumps that offer better efficiency from existing units? Please describe.
- ❑ How many high efficiency units are in use in California, how much energy do they save?
- ❑ Provide performance data related to pool motors/pumps i.e., total horse power, name plate horse power, service factor, flow rate, and head curves.



# Residential Pool Pumps & Motors

- ❑ Is there a difference between units sold to residential and commercial sectors?
- ❑ Is there any survey done to gauge consumers' acceptance and performance of the new units? If so, what results?
- ❑ How is pool pump motor energy efficiency marketed to residential and commercial sectors?



# Electric Spa Labeling

- ❑ 2008- 2013 Annual gross sales in California (national data if CA specific is not available).
- ❑ Estimated unit sales for 2014 and beyond.
- ❑ How are electric spas already labeled? Do these labels include energy consumption/efficiency? Where are consumers most likely to look for efficiency information when purchasing a spa?
- ❑ How is energy efficiency best communicated to consumers? Operational cost of the unit per year? What is the anticipated benefit of educating consumers on efficiency at the point of sale?
- ❑ What are the cost of producing and affixing current labels on Spas?



# 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](mailto:docket@energy.ca.gov)
  
- ❑ To comment on Pool Pumps and Motors please include **Docket # 12-AAER-2F** in the subject line.
- ❑ To comment on Electric Spa Labeling please include **Docket # 12-AAER-2G** 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-2F** (pool pumps and motors), or  
Docket No. **12-AAER-2G** (electric spa labeling)

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 Counsel

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Telephone: (916) 651-1462

Email: [jared.babula@energy.ca.gov](mailto:jared.babula@energy.ca.gov)



# Next Steps

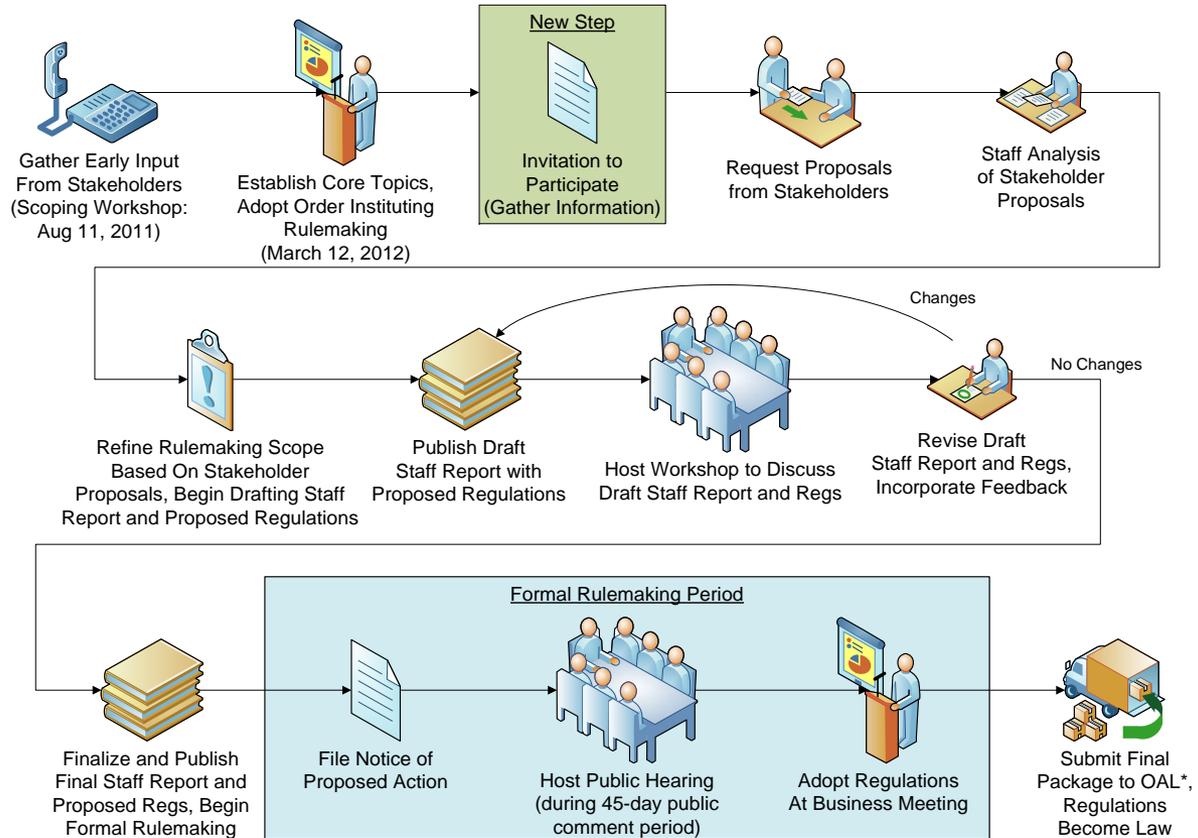
- ❑ Public workshop after the close of the ITP comment period to consider the merits of information and data received.
- ❑ Following the workshop, the Commission will request proposals for updated efficiency standards or measures.
- ❑ These proposals should be based on the information received through 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

Harinder Singh

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Please submit data and information to  
Product-Specific Docket #12-AAER-2F (Pool Pumps & Motors), or  
Docket #12-AAER-2G (Electric Spa Labeling)  
at [docket@energy.ca.gov](mailto:docket@energy.ca.gov)

The ITP is available online:

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

