

Invitation to Participate

Dimmable Ballasts

2013 Appliance Efficiency Rulemaking
California Energy Commission

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Purpose of Workshop

- ❑ The Commission is gathering information to determine how to proceed with Dimmable Ballasts in Phase 1 of the OIR.
- ❑ This ITP is an opportunity to provide information, data, and proposal to help develop the standards for Dimmable Ballasts.
- ❑ During this session, we will discuss the information and data we've received from stakeholders related to Dimmable Ballasts products.
- ❑ Staff will discuss next steps and will respond to questions and concerns on how to submit proposals.



Stakeholders responded to ITP

Natural Resources defense Fund (NRDC)

Investor Owned Utilities (IOUs) Submitted 8 documents that contained informational data and reports

American Council for an Energy-Efficient Economy (ACEEE)

Appliance Standards Awareness Project (ASAP)

National Grid

Northwest Efficiency Alliance (NEEA)

North East Efficiency Partnership (NEEP)

National Electrical Manufacturers Association (NEMA)



Information Requested

- ❑ Product Definition & Scope
- ❑ Test Procedures
- ❑ Sales and Stock
- ❑ Existing Standards & Standards in Development
- ❑ Product Design Life and Duty Cycle
- ❑ Product costs and Incremental Cost for efficient Products
- ❑ Energy Savings/Unit and Baseline Energy Consumption
- ❑ Peak Demand Energy Use
- ❑ Market Strategy
- ❑ Consumer Benefits and Impact on the States Economy



Dimmable Ballast Pre-emption Issue

The IOU's state in their response that “In subsequent updates to fluorescent ballast standards, scope definitions have explicitly excluded fluorescent ballasts that dim below 50% full output from the scope of coverage.”

In contrast, NEMA states in its response letter that “The U.S. Department of Energy included fluorescent dimming ballasts within the scope of the Final Rule of October 28, 2011. CFR 10§430.32. Quote “(10) Each fluorescent lamp ballast— (i) Manufactured on or after November 14, 2014; (ii) Designed—(A) To operate at nominal input voltages of 120 or 277 volts; (B) To operate with an input current frequency of 60 Hertz; and (C) For use in connection with fluorescent lamps (as defined in § 430.2); (D) For dimming to 50 percent or less of the maximum output of the ballast.”



Sales and Stock

- IOU's have submitted DOE's Dimmable Ballast Technical Support Document (TSD) for 2011 Rulemaking.
- TSD includes the sales and stock information and data related to all dimmable ballasts
- What annual sales data is available?
- How many dimmable ballasts are installed in the existing buildings?



Design Life and Duty Cycle

- ❑ What is the duty cycle for non-residential and residential dimmable ballasts?
- ❑ What is the design life of dimmable ballasts?
- ❑ Duty cycle and design life information is essential to determine the cost-effectiveness, total energy consumption and energy savings.



Incremental Cost and savings

- ❑ IOU's provided a dimmable ballast price survey.
- ❑ However, the provided data lacks comprehensive price information necessary for the kinds of price comparisons needed by the Energy Commission.
- ❑ Stakeholders who wish to submit proposals must provide the incremental cost to make efficiency improvements from an existing technology.



Next Steps

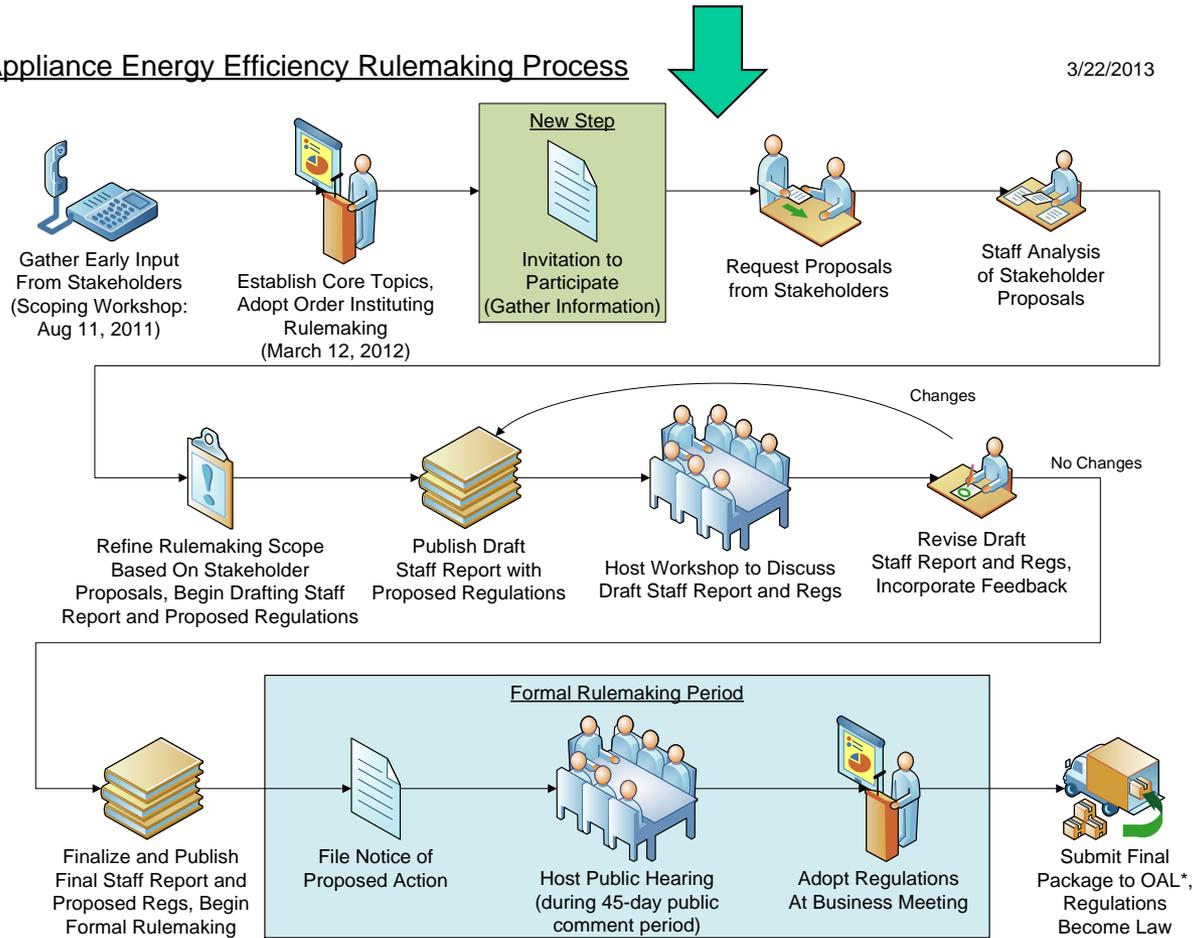
- ❑ Following the ITP workshops, the Commission will request proposals for new/updated efficiency measures.
- ❑ Interested parties may submit proposals from **June 10 to July 25, 2013.**
- ❑ Proposal Template and Guidance documents are forthcoming.
- ❑ Commission staff are available to discuss questions and concerns at any time during the proceeding.



Public Participation

Appliance Energy Efficiency Rulemaking Process

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Discussion & Comments

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