



California Energy Commission

Landscape Irrigation Efficiency Standards & Labeling

Staff Technical Workshop
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Appliance Standards Rulemaking Overview

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What is an Appliance?

- No clear definition
- 1976: Energy Commission adopted the world's first appliance efficiency standards.
- We now regulate about two-dozen appliance classifications.



Statutory Authority

- Warren-Alquist Act simply tells us what to consider when setting standards:
 - Prescribe, by regulation,
 - standards for minimum levels of operating efficiency
 - based on a reasonable use pattern ...



Standards Setting ...

- and may prescribe other cost-effective measures including
 - incentive programs, fleet averaging,
 - energy and water consumption labeling not preempted by federal labeling law
 - and consumer education programs,
- to promote the use of energy and water efficient appliances
 - whose use, as determined by the Commission
 - requires a significant amount of energy or water on a statewide basis.



Standards Setting ...

- Minimum levels of operating efficiency shall be based on
 - feasible and attainable efficiencies,
 - or feasible improved efficiencies
 - that will reduce the energy or water consumption growth rates.
- Standards effective no sooner than one year after date of adoption or revision.



Standards Setting

- New appliances manufactured on or after effective date of the standards
 - may not be sold or offered for sale in the State unless it is certified by the manufacturer to be in compliance with the standards
 - No Title 20 restriction relating to installation.
- AB 1881 requirements are slightly different
 - prohibiting sale or installation of non-complying irrigation controllers or moisture sensors for landscape use on or after 1/1/2012.
 - Section 111 of Building Standards (Title 24) typically covers installation.



Standards Setting

- There are a few appliances for which data certification is not required.
 - some commercial refrigerators and freezers without doors;
 - walk-in coolers, walk-in freezers;
 - and external power supplies.
- The standards shall be drawn so that they do not result in any added total costs to the consumer over the designed life of the appliances concerned.



Public Participation

- In order to increase public participation and improve the efficacy of the standards adopted, and prior to publishing the Notice of Proposed Action (NOPA)
 - The Commission must involve parties who would be subject to the proposed regulations in public meetings regarding the proposed regulations.
- All potential affected parties shall be provided advance notice of these meetings
 - And they must be given an opportunity to provide written or oral comments.



Public Participation

- During these public meetings, the commission shall receive and take into consideration input from all parties concerning
 - design recommendations,
 - cost considerations,
 - other factors that would affect consumers and California businesses of the proposed standard.
- The commission shall take into consideration prior to the start of the NOPA any input provided during these public meetings.



Cost Effectiveness

- The standards adopted or revised shall not result in any added total costs for consumers over the designed life of the appliances concerned.
- When determining cost-effectiveness, the commission shall consider:
 - The value of the water or energy saved,
 - Impact on product efficacy for the consumer,
 - And the life cycle cost to the consumer of complying with the standard.



Cost Effectiveness - 2

- The Commission shall consider other relevant factors, including but not limited to:
 - The impact on housing costs,
 - The total statewide costs and benefits of the standard over its lifetime,
 - The economic impact on California businesses,
 - And alternative approaches and their associated costs.



Standards Development

- The key components of the regulations for all regulated appliances must include:
 - Terminology and definitions,
 - Consensus test method(s),
 - Marking and labeling requirements,
 - Data collection parameters,
 - Specific efficiency or usage standards,
 - Possibly include design standards
 - AB 1881 requires performance standards.
 - And rules for enforcing the standards.



Standards Development - 2

- The Appliance Efficiency Regulations cover appliances sold or offered for sale in CA.
- Typically, the Building Standards (T24) regulate what can be installed.
- AB 1881 prohibits sale or installation of non-complying irrigation controllers or moisture sensors for landscape use on or after January 1, 2012.