

DOCKETED

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Building Energy Efficiency Standards

2019 Pre-Rulemaking for Building Energy Efficiency Standards

Building Standards Office
Efficiency Division

Payam Bozorgchami, PE
Project Manager, 2019 BEES

August 22, 2017

Housekeeping Items

- **Restroom locations**
 - Outside the double doors to your right
- **The Snack Bar**
 - Located on the 2nd floor under the white awning
- **Event of an Emergency and the building is evacuated.**
 - Follow our employees to the Roosevelt park, located across the street from this building
 - Proceed calmly and quickly following the employees with whom you are meeting

What We Will Cover Today

- Some basics and background
- How Title 24, Part 6 is developed
- **Maziar Shirakh, PE,**
Staff Presentation on Proposed Standards for Part 6 and 11
 - Efficiency and PV Requirements
 - Energy Design Rating
 - Cost Effectiveness Summary
 - CBECC-Res Demonstration
- **Simon Baker, Deputy Director Energy Division, CPUC**
 - CPUC Staffs Prescriptive on Grid Integration
Costs: DNV-GL Study of Residential ZNE
- **Christopher Meyer/Bill Pennington**
Community Solar Options

2019 Standards Process

We are very early in the process, the pre-rulemaking is set to begin soon

2019 STANDARDS UPDATE SCHEDULE	
DATE	MILESTONES
February 2016-July 2016	Measures Identified
August 2016 to June 2017	Stakeholder meeting/workshop & final staff workshop
April 2017 to August 2017	CASE Reports submitted to the CEC
September 2017	Present Express Terms
December 1, 2017	45-day Language Hearings
March 1, 2018	Adoption of 2019 Standards at Business Meeting
June 1, 2018 to November 2018	Staff work on Software, Compliance Manuals, Electronic Documents Available to Industry
November 1, 2018	Approval of the Manuals
January 1, 2019	Software, Compliance Manuals, Electronic Documents Available to Industry
January 1, 2020	Effective Date



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Pre-Rulemaking Schedule

Date	Topics
April 20, 2017	PV and ZNE (Treat it like a CASE workshop)
June 1, 2017	<ul style="list-style-type: none">• Residential Envelope Measures<ul style="list-style-type: none">○ Residential High Performance Walls○ Residential High Performance Attics○ Residential High Performance Windows and Doors○ Residential Quality Insulation Installation (QII)• Residential Water Heating Measures<ul style="list-style-type: none">○ Residential Compact Hot Water Distribution Design○ Residential Drain Water Heater Recovery
June 6, 2017	<ul style="list-style-type: none">• Indoor Air Quality Measures<ul style="list-style-type: none">○ Residential Indoor Air Quality○ Nonresidential Indoor Air Quality• Laboratory Measures<ul style="list-style-type: none">○ Induction Exhaust Fans○ High Efficiency Fume Hoods• Warehouse Topics<ul style="list-style-type: none">○ Hybrid Condensers○ Loading Dock Seals



Pre-Rulemaking Schedule

Date	Topics
June 20, 2017	<ul style="list-style-type: none"> • Nonresidential HVAC <ul style="list-style-type: none"> ○ Water Side Economizer ○ Fan System Power ○ Exhaust Air Energy Recovery ○ Equipment Efficiency ○ Transfer Air for Exhaust Air Makeup ○ Demand Control Ventilation for Classrooms ○ Occupant Sensor Ventilation ○ Cooling Tower Minimum Efficiency ○ Fault Detection Diagnostics (FDD) for built-up systems
June 22, 2017	<ul style="list-style-type: none"> • Nonresidential Lighting Measures <ul style="list-style-type: none"> ○ Indoor Lighting Sources ○ Indoor Lighting Controls ○ Lighting Alterations ○ Advanced Daylighting Design ○ Outdoor Lighting Source ○ Outdoor Lighting Controls
July 13, 2017	Hospital Measures; Demand Response (Clean Up)
July 18, 2017	<ul style="list-style-type: none"> • Residential HVAC Measure <ul style="list-style-type: none"> ○ Residential Quality HVAC ○ Small Duct High Velocity Systems • ATTCP Requirements
August 22, 2017	Solar/Storage and Energy Design Rating
August 30, 2017	Cal. Green (Part 11) Proposals



KEY WEB-LINK

2019 Title 24 Utility-Sponsored Stakeholder

<http://title24stakeholders.com/>

Building Energy Efficiency Program

<http://www.energy.ca.gov/title24/>

Comments to be submitted to

<https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=17-BSTD-01>

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Questions?

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