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	2019 Building Energy Efficiency Standards PreRulemaking
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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

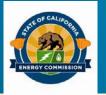
- Restroom locations
 - o Outside the double doors to your right
- The Snack Bar
 - o Located on the 2nd floor under the white awning
- Event of an Emergency and the building is evacuated.
 - o Follow our employees to the Roosevelt park, located across the street from this building
 - o Proceed calmly 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
 - o Energy Design Rating
 - o 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	Staff work on Software, Compliance Manuals,		
November 2018	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		



Pre-Rulemaking Schedule

Date	Topics
April 20, 2017	PV and ZNE (Treat it like a CASE workshop)
June 1, 2017	Residential Envelope Measures
	o Residential High Performance Walls
	o Residential High Performance Attics
	o Residential High Performance Windows
	and Doors
	o Residential Quality Insulation
	Installation (QII)
	Residential Water Heating Measures
	o Residential Compact Hot Water
	Distribution Design
	o Residential Drain Water Heater Recovery
June 6, 2017	Indoor Air Quality Measures
	o Residential Indoor Air Quality
	o Nonresidential Indoor Air Quality
	Laboratory Measures
DE N. BELDEN BELDE	o Induction Exhaust Fans
NO DEFENDED FOR	o High Efficiency Fume Hoods
	Warehouse Topics
	o Hybrid Condensers
	o Loading Dock Seals



Pre-Rulemaking Schedule

Date	Topics
June 20, 2017	Nonresidential HVAC
	o Water Side Economizer
	o Fan System Power
	o Exhaust Air Energy Recovery
	o Equipment Efficiency
	o Transfer Air for Exhaust Air Makeup
	o Demand Control Ventilation for Classrooms
The second of the second	o Occupant Sensor Ventilation
	o Cooling Tower Minimum Efficiency
	o Fault Detection Diagnostics (FDD) for built-up systems
June 22, 2017	Nonresidential Lighting Measures
	o Indoor Lighting Sources
	o Indoor Lighting Controls
	o Lighting Alterations
	o Advanced Daylighting Design
Raille at 18 at	o Outdoor Lighting Source
	o Outdoor Lighting Controls
July 13, 2017	Hospital Measures; Demand Response (Clean Up)
July 18, 2017	Residential HVAC Measure
	o Residential Quality HVAC
	o 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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