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<td><strong>Docket Number:</strong> 17-IEPR-12</td>
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<tr>
<td><strong>Project Title:</strong> Distributed Energy Resources</td>
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<td><strong>TN #:</strong> 220547</td>
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<td><strong>Document Title:</strong> Proposed DR Elements of the Building Standards</td>
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<td><strong>Description:</strong> 8.8.17 Presentation by Gabriel Taylor of CEC</td>
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<td><strong>Filer:</strong> Raquel Kravitz</td>
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<td><strong>Organization:</strong> California Energy Commission</td>
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<td><strong>Submitter Role:</strong> Commission Staff</td>
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<td><strong>Submission Date:</strong> 8/4/2017 8:00:38 AM</td>
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Proposed DR Elements of the Building Standards (2019 Title 24, Part 6)

Gabriel D. Taylor, P.E
Efficiency Division
California Energy Commission

2019 IEPR Workshop
Rosenfeld Hearing Room
August 8, 2017
Demand Response in 2019 Title 24, Part 6

- Zero Net Energy (ZNE)
- 2019 Solar Requirement
- Demand Flexibility
  - Grid Harmonization
  - Minimize Export
  - Maximize Benefit
Summary of Proposed Changes

• Proposed Cleanup
  – Harmonize with ASHRAE 90.1-2016
  – Consolidate all DR language

• Proposed Code Changes
  – Specify OpenADR Protocol
Summary of Proposed Changes

• Proposed Cleanup
  – Harmonize with ASHRAE 90.1-2016
  – Consolidate all DR language

• Proposed Code Changes
  – Specify OpenADR Protocol
Proposed Code Change: Consolidation (§110.X)

- HVAC Controls (§120.2)
- Lighting & Electrical Power (§130.0)
- Lighting Controls (§130.1)
- Sign Lighting Controls (§130.3)
- Electrical Power Distribution (§130.5)
- Thermostatic Controls (§150.0)
- Low-rise Residential Additions and Alterations (§150.2)
Summary of Proposed Changes

• Proposed Cleanup
  – Harmonize with ASHRAE 90.1-2016
  – Consolidate all DR language

• Proposed Code Changes
  – Specify OpenADR Protocol
Proposed Code Changes: OpenADR (§110.X)

- OpenADR 2.0a or OpenADR 2.0b
Open Automated Demand Response: OpenADR

- **2002**: Following energy crisis, the Energy Commission funded research
- **2003-2006**: Pilots & Field Trials
- **2009**: OpenADR 1.0
  - Energy Commission Publication
- **2011**: OpenADR 2.0a
- **2014**: OpenADR 2.0b
Schedule: 2019 Title 24 Standards

- **2016**: Research & Outreach
- **2017**: Pre-Rulemaking
- **2018**: Rulemaking
- **2020**: 2019 Standards Effective January 1, 2020
Schedule: 2019 Title 24 Standards

- **2016**: Research & Outreach
- **2017**: Pre-Rulemaking
- **2018**: Rulemaking
- **2020**: 2019 Standards Effective January 1, 2020
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