



# Navigating Through a New Administration to Achieve California's Clean Energy Goals

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# California Energy Commission

- California's primary energy policy and planning agency
  - 5 Commissioners appointed by Governor to 5-year staggered terms
- Core Responsibilities:
  - Advance state energy policy
  - Achieve energy efficiency in appliances and buildings
  - License thermal power plants
  - Invest in energy innovation and research
  - Transform transportation
  - Develop renewable energy
  - Prepare for energy emergencies





# California's Clean Energy Goals

- Greenhouse gas emissions:
  - Reduce to 40% below 1990 levels by 2030
  - Reduce to 80% below 1990 levels by 2050
- Senate Bill 350 (DeLeón, Chapter 547, Section 2, Statutes of 2015)
  - Establish targets for statewide energy efficiency savings and demand reduction to achieve doubling of energy efficiency by 2030.



## Efficiency Division Activities

- Building Standards
- Appliance Standards
- Energy Efficiency in Existing Buildings
  - Action Plan (AB 758)
- Local Financing & Assistance
  - Clean Energy Jobs Act (Prop 39)
  - Energy Conservation Assistance Act (ECAA)



# Building Standards

- All new residential construction in California to be ZNE by 2020.
- All new commercial construction in California to be ZNE by 2030.
- 50% of existing commercial buildings will be retrofit to ZNE by 2030





## 2019 Building Standards

- Beginning workshops on proposals for 2019 standards
- Address lighting, envelope, HVAC, water-heating, and solar
- Minimally affected by federal policies



# Appliance Efficiency Standards

## ➤ **Development**

- Minimum efficiency levels for both energy and water consumption

## ➤ **Other States Often Adopt California's Standards**

- CA Standards often become de-facto National/International Standards

## ➤ **Regulations Cover Most Major Residential and Commercial Appliances Sold in CA**

## ➤ **Establishing federal standards as state standards as a backstop in case of federal repeal**



# Appliance Certification, Compliance, & Enforcement

## ➤ **Certification**

- Manufacturers certify to the Commission using the online Appliance Efficiency Database System
- 65 unique appliance types; Over 300,000 active listings
- Includes state and federally regulated products

## ➤ **Compliance & Outreach**

- Energy Commission conducts webinars and outreach to help manufacturers and retailers attain compliance

## ➤ **Enforcement**

- Identify Violators through Market Surveys, Independent Testing, and Individual Reporting
- Decertify appliances or levy administrative penalty (**up to \$2,500** per unit per day)





## Federal Preemption

- States preempted from setting standards for products with federal standards
- States can pick up where DOE left off (e.g., fans & blowers)
- Use incentive programs, Energy Star, etc. to drive sales of products “above code”
- Proliferate state adoption of federal standards
- Work with other entities (CSA, EU) to move forward test procedure & standard development for federally regulated products.
- Require federally covered products to be in California database to help ensure compliance



## Upcoming Appliance Efficiency Activities

- Standards Development:
  - Pool pump motors, portable electric spas, and test procedures for commercial clothes dryers
  - Commercial & industrial fans & blowers
  - General service lamps (expanded scope)
  - Irrigation equipment (emitters & controllers)
  
- Roadmap Development – New Approach!
  - Set-top boxes
  - Low power modes and power factor
  - Solar inverters



# AB 802 Whole-Building Data Access, Benchmarking, and Public Disclosure Program



## Statute Requires:

- Utilities to maintain energy use data for all buildings to which they provide service.
- Utilities to provide energy usage data to a building owner, owner's agent, or operator on request.
- Energy Commission to create a program to benchmark and publicly disclose energy usage information for certain buildings.



# Tentative Program Timeline

**Jan. 1, 2016**  
**Utilities begin to maintain records**

*June 1, 2018\**  
*Commercial reporting to CEC begins*

*Sep. 1, 2020\**  
*Multi-family data publicly disclosed*

*2017\**  
*Regulations in effect*

**Jan. 1, 2017**  
**Utilities begin to provide data upon request**

*Sep. 1, 2019\**  
*Commercial data publicly disclosed*

*June 1, 2019\**  
*Multi-family reporting to CEC begins*

**Bold: Statutory requirements**  
*\* Tentative projections*



# Approximate Buildings, California

## Commercial

Buildings	382,274
Covered Buildings	382,274
Disclosable Buildings	18,504

## Multi-Family

Properties with $\geq 5$ units	117,259
Properties with $\geq 17$ units and $> 50,000$ sf	20,810



## Federal-State Interaction

- ENERGY STAR & WaterSense (U.S. EPA)
  - Portfolio Manager for Benchmarking
  - Basis for Utility Incentive Programs
  - Starting Point for Standards Development
- Data Collection and Analysis
  - Energy Information Administration
  - Lighting Facts, CCMS



## Federal-State Interaction

- Research and Development
  - ARPA-E
  - Buildings Technologies Office
  - Software
- State Energy Program
  - California receives ~\$2.5 million/year for appliance and building standards development and implementation





## California Clean Energy Jobs Act (Proposition 39)



- Provides state grant funding for energy projects in California's Public and Charter Schools and Community Colleges
- Goal is to create clean energy jobs, improve energy efficiency, and expand clean energy generation



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