



# California Energy Commission

California Energy Demand Forecast Introduction

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# Why do we forecast demand?

## Warren-Alquist Act

Established the CEC

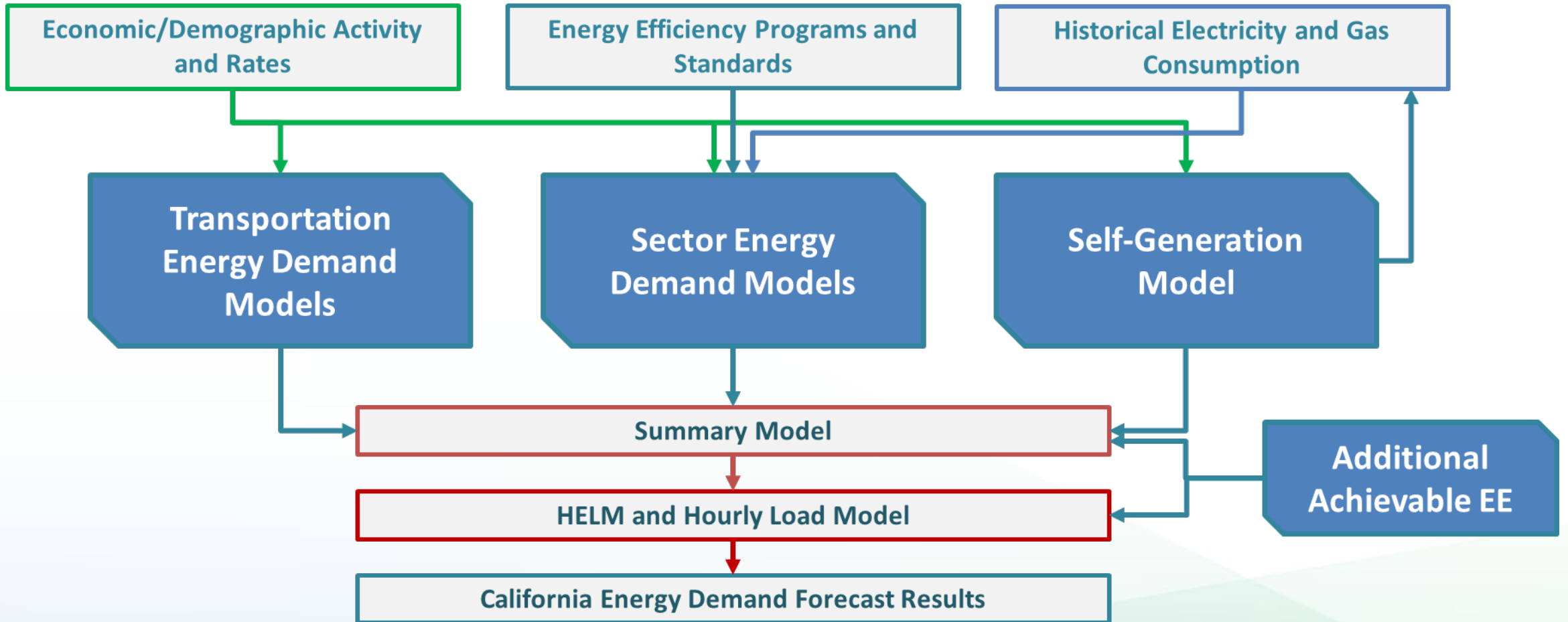
## Public Resources Code 25301(a)

Requires the CEC to "conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices."





# Energy Demand Model System





# Energy Demand Cases

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## Mid Energy Demand

- “Likely” demand case assumptions

## High Energy Demand

- Higher econ/demo projections
- Higher impacts from climate change
- Lower energy rates
- Higher vehicle electrification
- Lower self-generation adoption

## Low Energy Demand

- Lower econ/demo projections
- No additional climate change impacts
- Higher energy rates
- Lower vehicle electrification
- Higher self-generation adoption



# 2021 Forecast Key Updates

- Updated Economic and Demographic Projections
- Additional Achievable Energy Efficiency and Fuel Substitution
  - Updated potential savings projections
  - Added AAFS for better accounting for higher building electrification projections
- Transportation
  - Uses the 2019 CA Vehicle Survey data
  - Updated incentives and vehicle attributes
- Self-Generation
  - Updated incentives
  - Incorporate commercial building code adopted in Aug 2021



# Previous Workshops / DAWG Meetings on Inputs, Assumptions, and Methodology

Forecast Area	May 5 DAWG	June 23 DAWG	July 15 DAWG	Aug 5 IEPR Workshop	Sept 9 DAWG	Sept 14 DAWG	Sept 30 DAWG
Economic and demographic data				X			
Electricity rates		X		X			X
Self-generation							X
Transportation	X		X	X		X	
Additional Achievable Energy Efficiency and Fuel Substitution		X		X	X		
Climate change				X			X
Weather-normal loads							X

[Link to DAWG Meetings](#)

[Link to IEPR Workshops](#)



# Today's Workshop Goals

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Present components of the 2021 California Energy Demand Forecast and solicit feedback

- Additional Achievable Energy Efficiency and Fuel Substitution
- Transportation Energy Demand

Overall consumption, sales, and peak forecast results will be presented on December 16



# Energy Demand Forecast Timeline

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- Draft IEPR published for public comment
  - Will not contain forecast results
- Overall Consumption, Sales, and Peak Demand Forecast Results – Dec 16 IEPR workshop
- Forecast results posted – Jan 2022
- Final IEPR posted and adopted - Feb 2022





**Thank You**

