

DOCKETED

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California Energy Commission

California Energy Demand Forecast Introduction

Heidi Javanbakht, Supervisor – Demand Forecasting Unit

December 2, 2021



Why do we forecast demand?

Warren-Alquist Act

Established the CEC

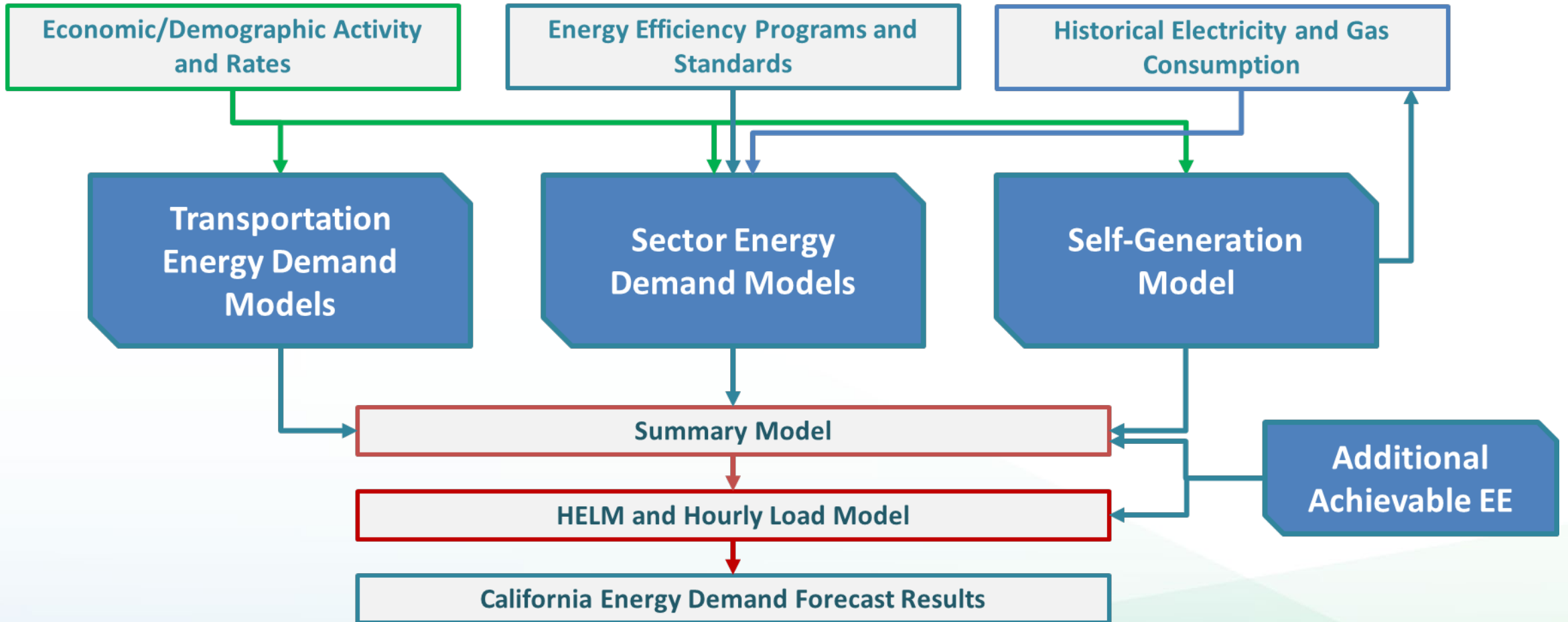
Public Resources Code 25301(a)

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

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

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

- 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

