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California Energy Commission

California Energy Demand Forecast Update - Introduction

Heidi Javanbakht, Manager – Demand Analysis Branch

December 7, 2022

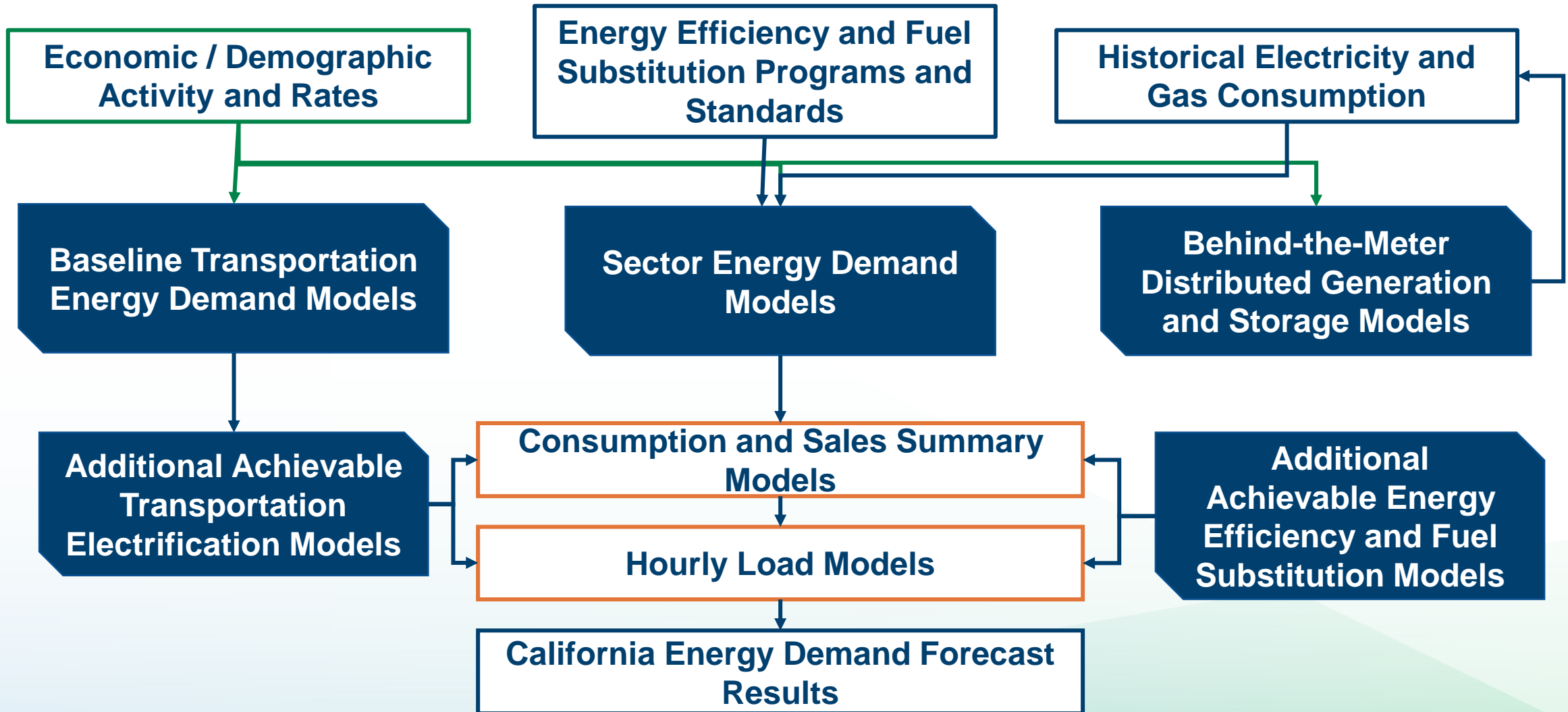


Today's Workshop Goals

- **Present results of two components of the 2022 California Energy Demand Forecast Update and request feedback**
 - Additional Achievable Transportation Electrification
 - Additional Achievable Fuel Substitution
- **Sales and peak results will be presented at an IEPR workshop on December 16**



Energy Demand Model System





2022 Electricity Forecast Updates

- Update inputs
 - Historical data
 - Economic and demographic projections
 - Electricity rates forecast
- Update the hourly and peak demand forecast
- **Updates to Additional Achievable Fuel Substitution Scenario (AAFS) 4 to add estimated impacts from the CARB's State Implementation Plan zero-emission space and water heater measure**
- **New forecast framework**
- **Additional achievable framework for transportation**



New Forecast Framework for 2022

New Name →	Planning Forecast	Local Reliability Scenario
Previous Name →	Mid-Mid	Mid-Low
Use Case →	<ul style="list-style-type: none"> • Resource Adequacy • CPUC IRP • CAISO Flex • CAISO Econ 	<ul style="list-style-type: none"> • CAISO TPP • CAISO Local • CPUC DPP
Economic, Demographic, and Price Scenarios	Baseline (Mid)	Baseline (Mid)
AAEE Scenario	Scenario 3 (Mid)	Scenario 2 (Low)
AAFS Scenario	Scenario 3 (Mid)	Scenario 4 (High)
AATE Scenario	Scenario 3 (Mid)	Scenario 3 (Mid)
CARB SIP zero emission space and water heating equipment sales after 2030	-	Included



2022 DAWG Meetings on Inputs, Assumptions, and Methodology

Forecast Area	Sept 8 DAWG Meeting	Nov 15 DAWG Meeting
Revised Forecast Framework	X	
Economic and Demographic Data	X	
Electricity Rates	X	
Transportation	X	X
Additional Achievable Energy Efficiency and Fuel Substitution		X
CARB SIP Zero-Emission Space and Water Heater Measure		X

[Link to DAWG Meetings](#)



Energy Demand Forecast Timeline

- Draft IEPR published for public comment
 - Does not contain forecast results
- Second IEPR workshop on forecast results - December 16
- Forecast results posted and proposed for adoption – Jan 2023
- Final IEPR posted and proposed for adoption - Feb 2023



Thank You

