

California Energy Commission

Title: SPUR Digital Discourse Presentation

Presenter: Ken Rider, Chief Policy Advisor for Chair Hochschild

Date: February 10, 2021



Figure 6: Total Renewable Generation Serving California Load by Resource Type

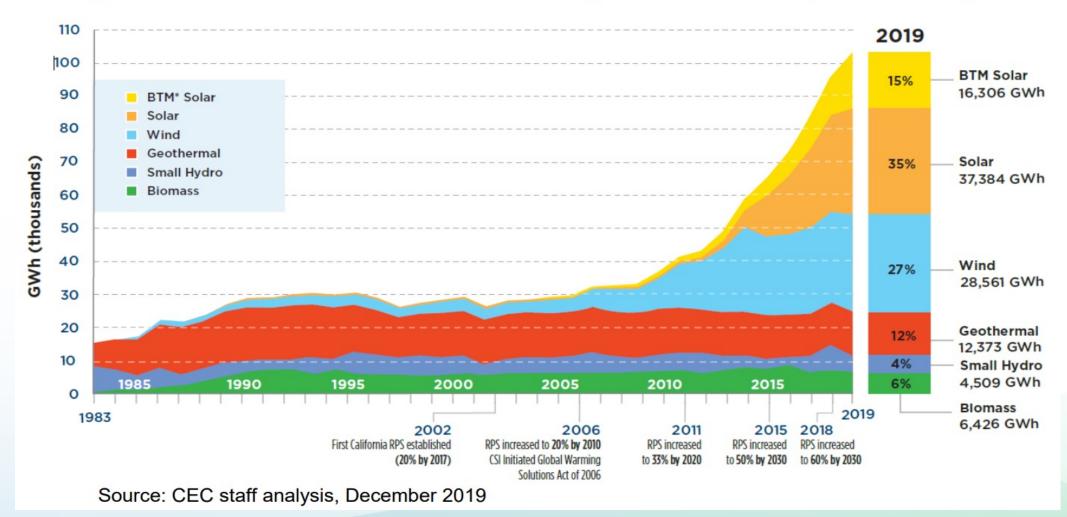
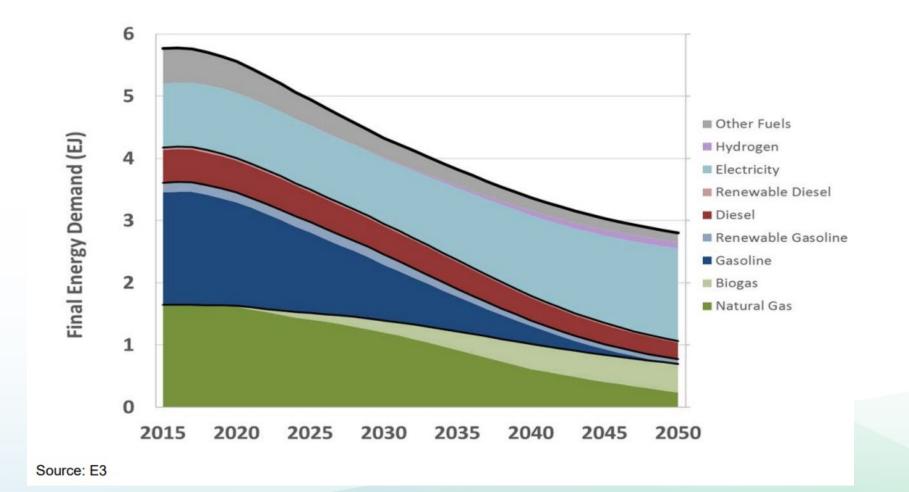


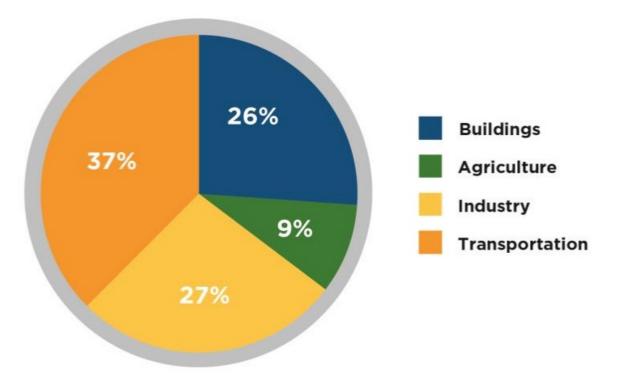


Figure 7: Final Energy Demand by Fuel Type in the High Electrification Scenario





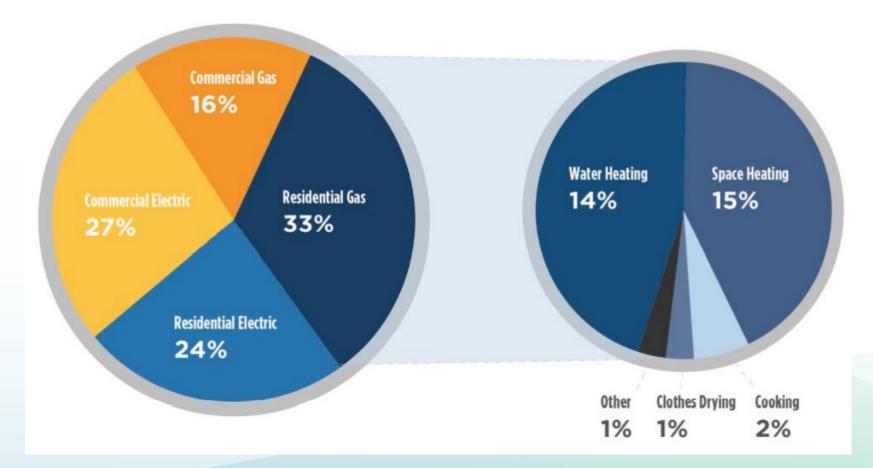
GHG Emissions by Sector (Percentage of Carbon Dioxide Equivalent)



Source: California Energy Commission using data from the California Air Resources Board 2018 GHG Inventory and the 2017 IEPR Electricity Demand Forecast

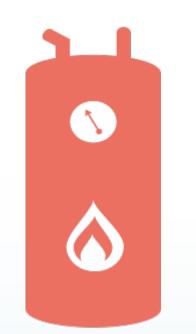


2016 Energy Use in California Buildings (MMBtu)





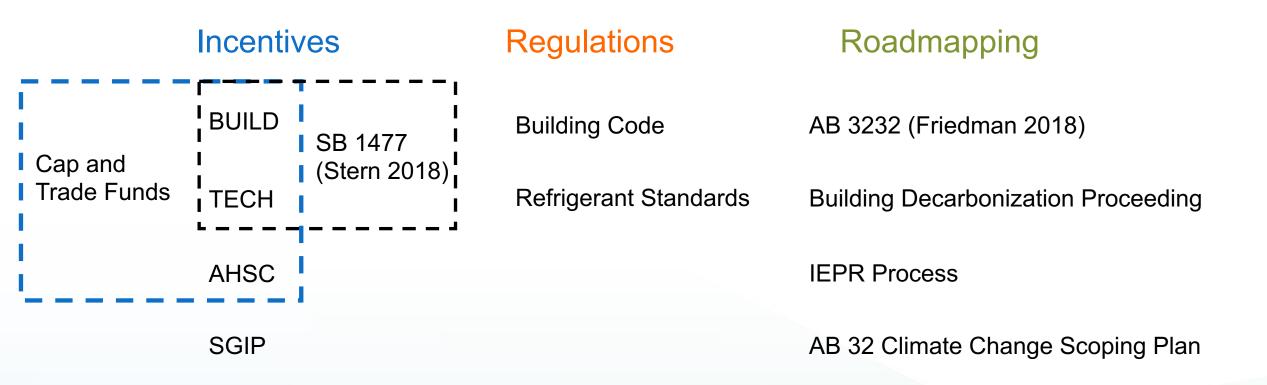
Efficient Electrification of Space and Water Heating means Heat Pumps



Replacing one standard tank gas water heater with a heat pump

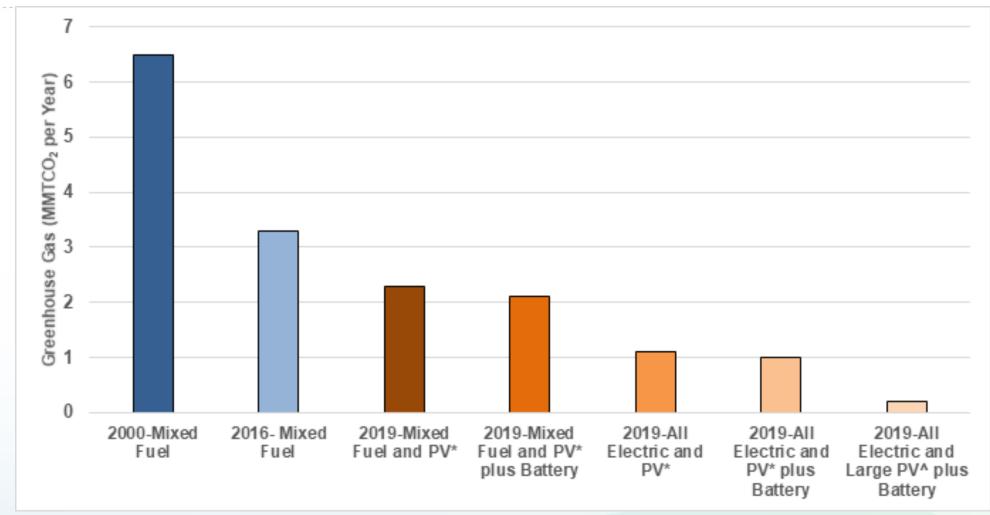
Is like replacing 130 incandescent bulbs with LEDs in energy saving equivalence

A Growing Ecosystem of State Efforts (not exhaustive)



BUILD = Building Initiative for Low-Emissions Development Program TECH = Technology and Equipment for Clean Heating Initiative AHSC = Affordable Housing and Sustainable Communities Program SGIP= Self-Generation Incentive Program





Source: CEC



- The current status is informal draft and is likely to be finalized and adopted this summer.
- Decarbonizing features being considered
 - Energy Efficiency improvements (focused on commercial buildings)
 - Solar and storage requirements for commercial buildings
 - Credit/incentive to build all-electric
 - Improved ventilation where gas cooking is selected
 - "Electric ready" features
 - Transitioning one main gas end use to electric as an assumption
 - New compliance metric that tracks well with GHG emissions
 - CALGreen code that could further encourage all-electric construction



Thank You!

