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ITEM 5 Load Flexibility Part 2

Messay Betru, Efficiency Division CEC



California Energy Commission

Equity Implications for SB 49 and Load Management Standards Rulemaking Gabriel Taylor, Messay Betru

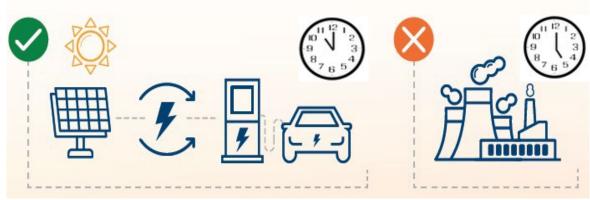
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Flexible Demand Standards (SB 49)

What is the goal of SB 49?

Car charging example:









Business as usual night-time flex

Utilizing now cheapened noon-time flex

Combined strategy flex









More on Flexible Demand Standards

Other requirements in SB 49:

- Ensure cost-effectiveness to consumers
- Reduce carbon or GHG emissions
- Customer consent and user-friendly
- Cybersecurity considerations



Whirlpool Electric Dishwasher Delay Feature



Frigidaire Dishwasher Delay Feature



Equitable Access Defined

- > Define energy equity in the context of appliances
- > Identify the role of energy equity in programs



Residential ovens for San Joaquin Valley wood-burning, propane appliance replacement program

Credit: Merced Sunstar.



Display of older model and newer model refrigerators, and information on utility Appliance Rebate Programs.

Credit: Pacific Gas & Electric (PG&E).



Equitable Flexible Appliances

Why equitability focus for flexible appliances - Marginalization

Qualified SCE customers are eligible for several appliance upgrades or energy-saving services:

- Cooling Measures
 - Evaporative Cooler
 - Window or Wall AC Replacement
 - Central AC Replacement
- Refrigerator Replacement
- Clothes Washer Replacement
- Freezer Replacement
- Pool Pump Replacement
- Weatherization Services
- Lighting
 - Light Emitting Diode (LED) bulbs
 - LED torchiere lamps
 - Replacement outdoor fixtures with LEDs
- Smart Power Strip
- Smart Thermostat



Need for Equitable Standards

What does an equity lens look like?

Key recommendations:

- Align with current and future agency rulemakings
- Equal distribution of flexible appliances, regardless of income
- Ensure use of appliance does not impact house comfort



Focus on Hurdles & Effectiveness

- ➤ What are some pitfalls or concerns with ignoring the equity implications of flexible demand appliance standards?
 - What are most common significant concerns?
- What does long-term success look like for Flexible Appliances?
 - Which metrics to consider?
 - What is the value of increasing equity?
 - Coordination with CEC efforts (e.g., SB 350, AB 3232)



>What are critical questions or concerns we should be exploring/analyzing.