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ITEM 5 Load Flexibility Part 1

Gabriel Taylor, Efficiency Division, CEC

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Electric Load Flexibility

An Equitable Transition to a Clean Energy Future

Gabriel Taylor, P.E. & Messay Betru *California Energy Commission*

July 16, 2021



- What is Load Flexibility
- Why it is an Equity Issue
- Engagement Opportunities
 - ✓ Policy
 - ✓ Education
 - ✓ Standards







Source: Tracking the Sun: Installed Price Trends for Distributed Photovoltaic Systems in the United States – 2018 edition, September 2018, Lawrence Berkeley National Laboratory https://emp.lbl.gov/sites/default/files/tracking_the_sun_2018 edition final 0.pdf







The Value of Energy
Voluntary & Automatic
Save Money & Reduce Impacts

A voluntary change in electric demand while maintaining or improving service quality.



Lawrence Berkeley National Laboratory, "2025 Demand Response Potential Study" (March 2017)





Source: U.S. Bureau of Labor Statistics, California Consumer Expenditure Survey in 2017-2018 Source data at <u>https://www.bls.gov/cex/2017/research/income-ca.htm</u>



Engagement Opportunities



Transportation Electrification

Building Energy Standards



...a program of electrical load management for each utility...

- Energy Storage
- Automation
- Rates (recommendations)









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