

Toward a 100% Clean Energy Future

Chair David Hochschild, California Energy Commission California Climate Policy Summit, April 2022





- 100% Carbon Free Electricity by 2045
- •Carbon Neutrality by 2045
- •100% ZEV by 2035
- Protect 30% of land and water by 2030
- June 2022: Offshore Wind Planning Goal

Progress to 100% Clean Electricity









Geysers Geothermal Power Plant 955 MW Lake County, CA





Apple Headquarters 17 MW Cupertino, CA





Moss Landing Energy Storage Facility 300 MW Monterey County, CA





*Projected based on ISO interconnection queue

OFFSHORE WIND: CALIFORNIA'S NEW RENEWABLE RESOURCE





CLIMATE CHANGE MAKES IT HARDER TO FIGHT CLIMATE CHANGE

- Record breaking heat
- Drought
- Wildfires
- Impact on electric rates





Governor's 2022-23 Budget New CEC Funding



Solution Set 1 Set 1



\$1.8 Billion

Clean Energy Package (2022-2024)

\$3.8 BILLION TOTAL



Governor's 2022-23 Budget

New CEC Funding: Clean Energy & Building Decarbonization



\$922 Million

Equitable Building Decarbonization



Long Duration Storage Projects



\$85 Million

Food Production Investment Program







Green Hydrogen Grants



\$7 Million

Energy Modeling



\$210 Million

Industrial Decarbonization



\$1.5 Million

AB 525 (Offshore Wind) Implementation

\$1.8 BILLION TOTAL









Source: https://ycharts.com



Blue Lake Rancheria Microgrid Blue Lake, CA







2022 Energy Code Benefits



Increases on-site renewable energy generation from solar.



Increases electric load flexibility to support grid reliability.



Reduces emissions from newly constructed buildings.



Reduces air pollution for improved public health.



Encourages adoption of environmentally beneficial efficient electric technologies.



MAKING EVERYTHING THAT CONNECTS TO THE GRID A GOOD CITIZEN OF THE GRID

Active Efficiency and Load Flexibility

- Highly efficient, grid-interactive buildings and appliances facilitate integration of renewable generation, distributed energy resources and demand-side services.
- Automated communications and control will enable cost-effective load shifting.
- Demand flexibility can minimize the grid's cost drivers and carbon content **AND** enhance reliability.







THANK YOU!

