

DOCKETED

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Item 3: Infrastructure Investment and Jobs Act (IIJA) and Inflation Reduction Act (IRA)

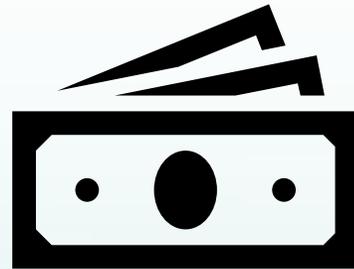
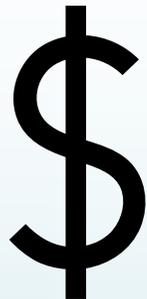
October 24, 2022 Business Meeting

Jennifer Martin-Gallardo, Special Advisor to Chair Hochschild
Chair's Office



Benefits to Californians

- Multiplying state funds to meet clean energy goals
- Prioritizing impacted communities
- Reducing costs





Preventing Outages and Enhancing the Resilience of the Electric Grid (40101(d))

- **Formula Funds:** \$34M/yr for 5 years; \$170M total
- **Community Energy Resilience Investment (CERI) Program**
 - Sub-grant funds to eligible entities (IOU, POU, etc.).
 - Support projects that:
 - Increase community energy resilience and reliability,
 - Promote decarbonization of energy system,
 - Improve energy justice and equity and create good-paying jobs,
 - Prioritize disadvantaged communities & communities w/ critical energy resilience needs
- **Activities:**
 - Workshop held 8/11/22; [Website and Docket](#)
 - Applications due March 2023
 - Listening sessions pending



Program Upgrading Our Electric Grid and Ensuring Reliability and Resiliency

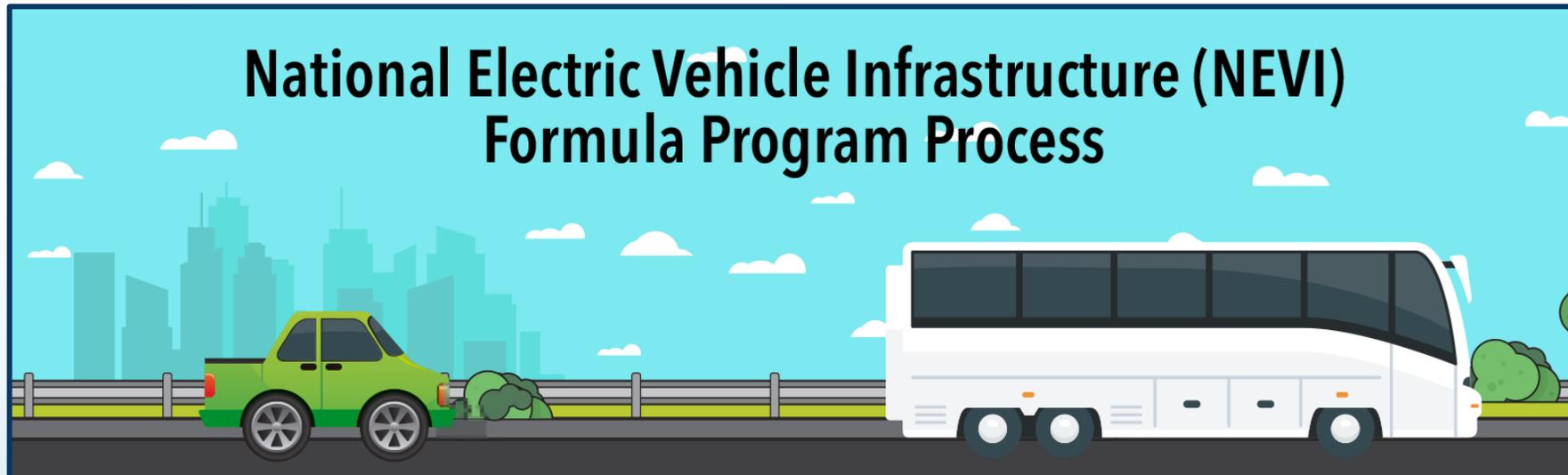
- **Competitive Opportunity: \$5B**
 - CEC leading, coordinating with CPUC and CAISO
 - Expected release Fall 2022
- **Potential Focus:** Advancing decarbonization and innovative approaches to enhancing grid reliability and resilience in the face of climate change and new extremes.
- **Approach:** Strategic deployment, coordination of LDES, microgrids, other tech





National Electric Vehicle Infrastructure (NEVI) Formula Program

- **Formula Funds:** CA to receive \$384M over 5 years
 - Caltrans leads
 - CEC will distribute funds via competitive solicitation
 - CA's 1st annual plan approved by Federal Highway Administration
 - Solicitations anticipated every 6 months for two years, starting as early as January 2023.

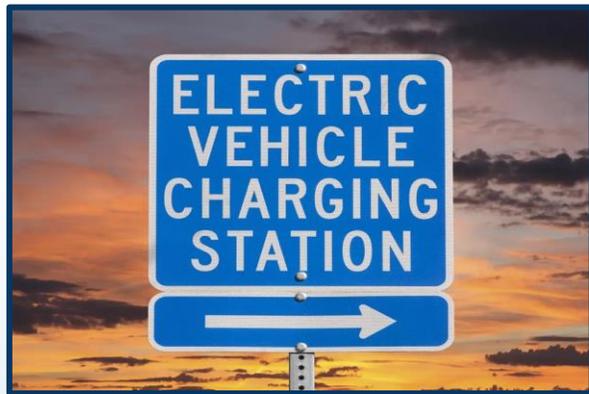




Charging and Fueling Infrastructure Grants

Community Charging & Corridor Charging

- **Competitive Opportunities:** \$1.25B for each
 - Joint Caltrans, CEC collaboration on CA's approach
 - EV and alternate fuels eligible
 - Expected release: Spring 2023





State Energy Program – IIJA (40109)

- **Formula Funds:** ~\$31M to CA with 5 years to spend
- **Anticipated Use:**
 - Support CEC operations
 - Applications due Dec 2022
 - Awards made Jan-Mar 2023



CALIFORNIA
ENERGY COMMISSION



Energy Efficiency Revolving Loan Fund Capitalization Grant Program (40502)

- **Formula Funds:** ~\$6.8M to CA for financing capitalization grants
- **Anticipated Use:**
 - Energy efficiency building audits
 - Building upgrades based on those audits
 - Expected release Spring 2023





Energy Efficiency Conservation Block Grant

- **Formula Funds:** Up to \$10M to CA
- **Anticipated Use:** Local Government and Tribes Planning and Deployment grants
 - Potentially combine with ARRA 2009 funds for Challenge
 - Expected release Q4 2022



The Importance of Community Planning for Energy



Building Codes Implementation for Efficiency and Resilience

- **Competitive Opportunity:**
 - \$225M available nationally over 5 years
 - \$45m available annually
- **Purpose:** Enable sustained, cost-effective implementation of updated building energy codes to save customers money on their energy bills
- **Anticipated Use:**
 - Local building department tech support
 - Innovative compliance tools for locals
 - Innovation to compliance modeling
 - Expected release end of 2022





CEC Supports Regional Clean Hydrogen Hubs

- **Competitive Opportunity: \$8B**
 - Opportunity Released by DOE on Sept 22
 - Go-Biz leading, support from CEC, CARB, CPUC
 - One statewide co-funded plan
 - ARCH₂ES launched Oct 6-7
 - Concept Paper due Nov 7





CEC Supports Regional Direct Air Capture Hubs

- **Competitive Opportunity:** \$3.5B over 5 years
- **Purpose:** Fund 4 regional DAC hubs to demonstrate durable CO2 removal
- **CEC Planned Activities:**
 - Meet with stakeholders
 - Working on federal cost share solicitation - could be used to provide match to support federal grant application
 - **Expected release:** 4Q 2022





HOME OWNER MANAGING ENERGY SAVINGS (HOMES) Rebate Program

- Formula Opportunity: \$4.3B Nationally. Estimate for CA: \$282M
- Rebates to homeowners and aggregators for whole-house energy saving retrofits.
- Available for Single and Multi-Family Homes
- CEC will have to develop and implement CA Plan for DOE approval.
- CEC can use 20% for Admin/Tech Assist.
- Double rebates for low- and moderate-income individuals (< 80% of the area median income). State may choose to increase.
- \$200 bonus to contractor/aggregator for homes in a DAC.



HOME OWNER MANAGING ENERGY SAVINGS (HOMES) Rebate Program

- Single Family Home Retrofits
 - Modeled energy savings:
 - \$2k or 50% project cost if 20-35% savings
 - \$4k or 50% project cost if 35+%
 - Measured energy savings
 - If 15%+ energy saving: payment per KWh saved, equal to \$2,000 for 20% reduction compared to average home in the State or 50% project cost
- Multi-Family Retrofits:
 - Modeled energy savings
 - \$2k per dwelling unit, max of \$200k (20-35%)
 - \$4k per dwelling unit, max of \$400k (35+%)
 - Measured energy savings
 - 15%+ energy saving: per KWh saved, equal to \$4,000 for a 20 percent reduction compared to average multi-family in CA or 80 percent of the project cost.



High-Efficiency Electric Homes Rebate Program

- Formula Opportunity: \$4.275B Nationally. Estimate for CA: \$280,826,055
- CEC can use 20% for Admin/Tech Assist
- CEC Must develop plan to:
 - verify income eligibility
 - allow rebates at point of sale
 - no stacked rebates
- Eligible recipients must fall below 150% of area median income (AMI).
 - 80%-150% of AMI – Up to 50% of cost
 - 80% of AMI – Up to 100% of cost
- Multi-family – 50% of residents must meet criteria



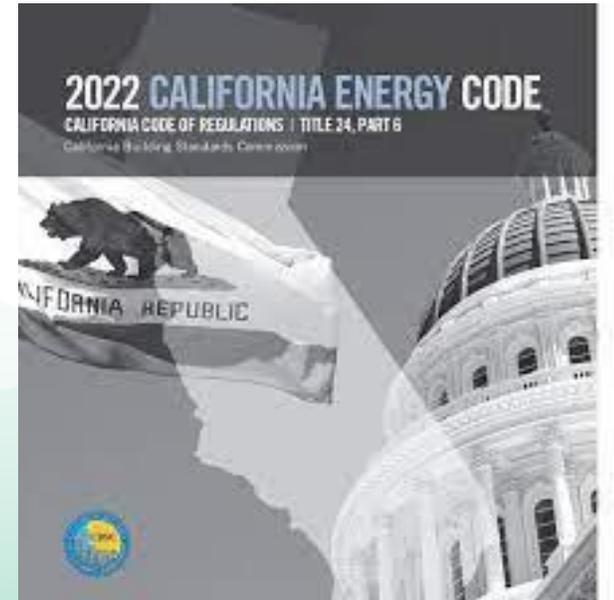
High-Efficiency Electric Homes Rebate Program

- Rebates up to \$14,000 per household
 - \$8,000 for heat pumps,
 - \$1,750 for heat pump water heaters, and
 - \$840 for electric stove, range, oven, or heat pump clothes dryer.
 - \$4,000 for panel upgrade
 - \$1600 for insulation, sealant, ventilation
 - \$2500 for electric wiring
- Up to \$500 for installer



Energy Code Updates (IRA)

- Competitive Opportunity: \$1B for 2 programs available nationwide
- Support state/local jdxs to update Energy Codes:
 1. update to meet or exceed 2021 International Energy Conservation Code or the ANSI/ASHRAE/IES Standard 90.1-2019;
 2. update to meet or exceed zero energy provisions in 2021 International Energy Conservation Code.





Team Leads

Grid Reliability: Alex Horangic and Michael Mastrandrea

EV Infrastructure: Ben De Alba and Ben Wenzel

Energy Efficiency: Christine Collopy

Hydrogen: Bart Croes

Direct Air Capture: Virginia Lew and Ilia Krupenich

Rebate Programs: Deana Carrillo

