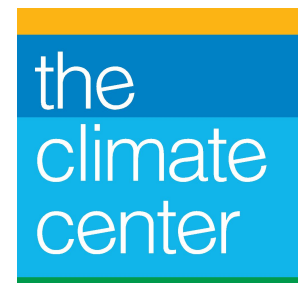




Community Energy Resilience

Destiny Rodriguez
destiny@theclimatecenter.org



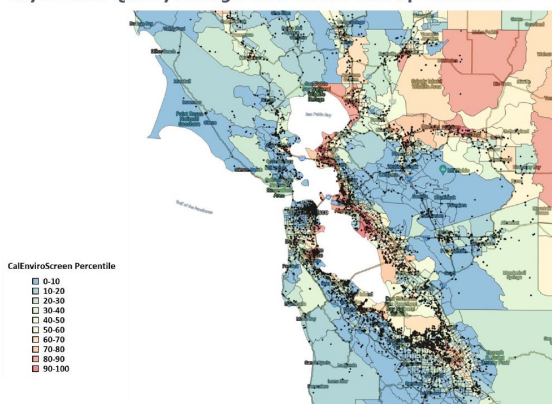
March 23, 2022

www.theclimatecenter.org

California's Current Energy Resilience Strategy: Diesel

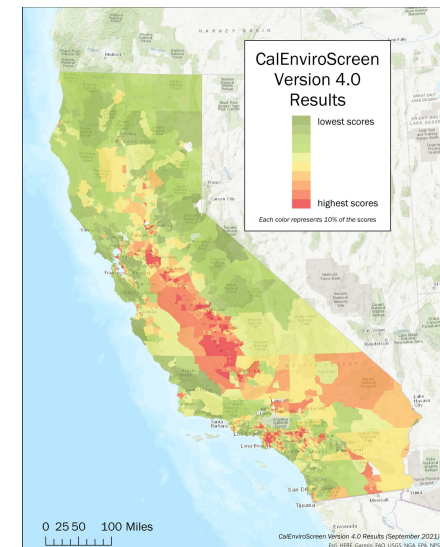
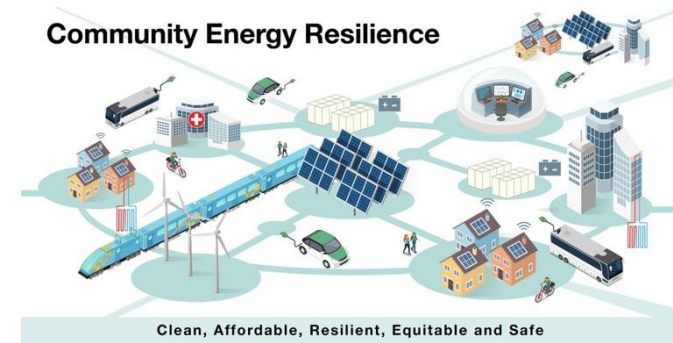
New Study Shows a Rapid Increase of Diesel-Fueled Backup Generators Across California. The number of back-up generators increased by 34 percent in the Bay Area Air Quality Management District over the past three years. Source: M.Cubed October 2021

Bay Area Air Quality Management District Back-up Generators



Why Clean Energy Microgrids

- Decarbonization and climate policy
- Minimizing need for fossil generation during evening peak hours
- Reliable local energy
- Reducing demand on the grid and need for transmission grid infrastructure
- Empowering marginalized communities



Why Vehicle-Grid Integration

- Accelerate adoption of EV's by providing additional revenues for owners
- Reduce costs to electricity ratepayers by reducing congestion on existing infrastructure reducing need to build new fossil fuel electricity generation
- Support decarbonization by avoiding curtailment of solar and providing grid services
- Reduce emissions from the transportation sector
- Improve grid resilience
- Shift EV's from grid liability to grid asset
- Build upon existing state EV policy



See <https://gridworks.org/materials-produced-by-the-vgi-working-group-2/>

Community Energy Resilience

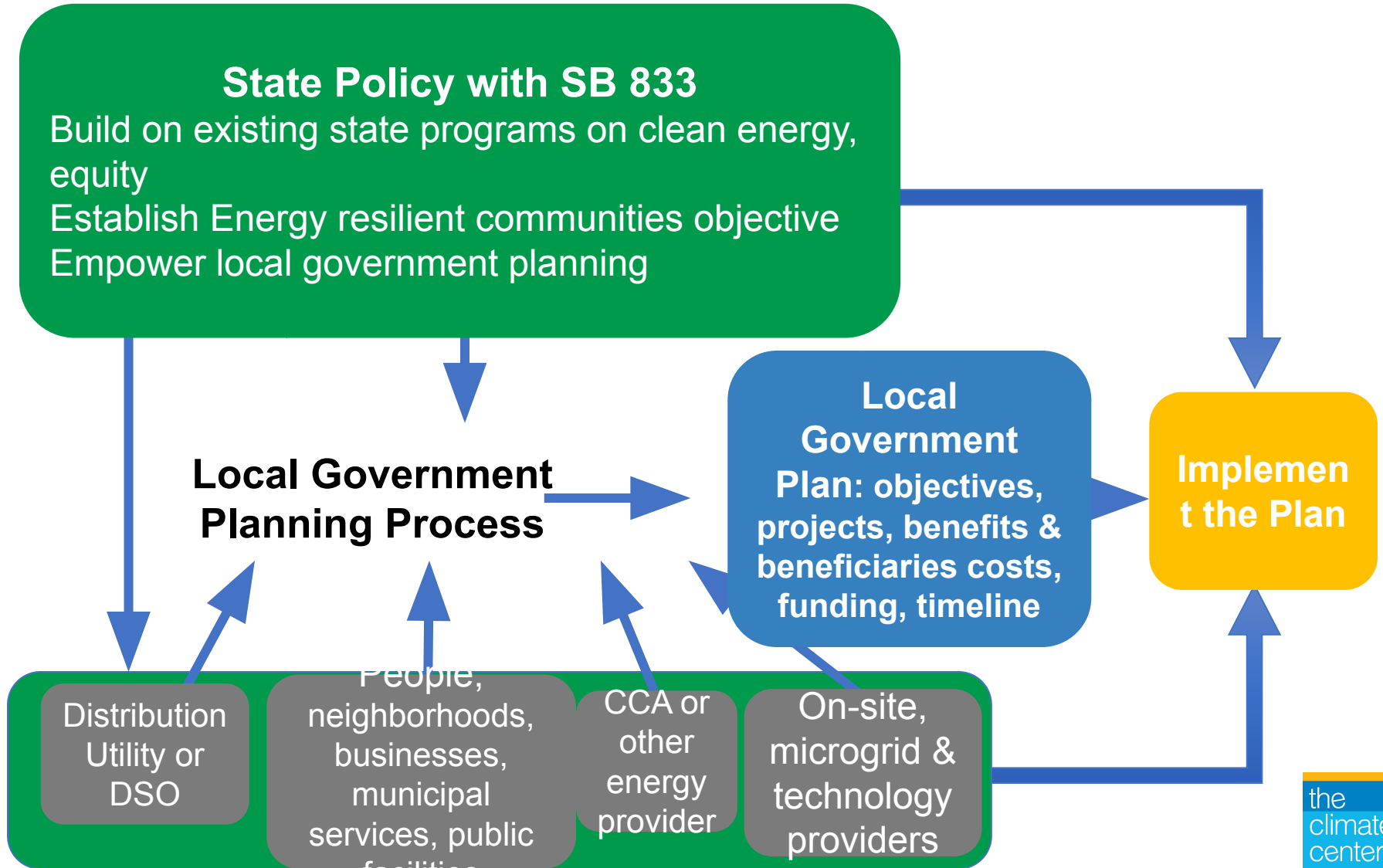


Community Energy Resilience Act (SB 833) Provides The Missing State Policy Framework to *Integrate* Existing Efforts



- Energy reliability can only be achieved by locating generation and storage locally which means local government jurisdiction
- SB 833 unanimously cleared the Senate Energy Committee March 14th

Community Energy Resilience Planning



State Funds Available

State Funding

- \$3.7B for Climate Resilience
- \$10B for ZEVs



2021-22 Climate Resilience Package (\$ in millions)						
FY 2021-22 Climate Resilience Budget Assembly Floor Report						
PROGRAM	BU	DEPARTMENT	2021-22 (GF)	2022-23 (GF)	2023-24 (GF)	TOTAL FUNDING
Extreme Heat						
Urban Greening/Forestry	0540	CNRA	\$50	\$100	\$100	\$250
Low Income Weatherization	4700	CSD	-	\$25	\$25	\$50
Community Resilience Centers/Extreme Heat and Community Resilience Program	0650	SGC	-	\$50	\$150	\$200
Extreme Heat Set Aside	Various	Various	-	\$150	\$150	\$300
Multi-Benefit and Nature-Based Solutions						
Climate Change Impacts on Wildlife	3600	DFW	\$15	\$35	-	\$50
Habitat Restoration	3860	DWR	-	\$125	\$75	\$200
Multi-Benefit and Nature-Based Solutions Set Aside	Various	Various	-	\$593	\$175	\$768
Protect Fish and Wildlife from Changing Conditions	3640	WCB	\$31	\$222	\$100	\$353
Building Ocean and Coastal Resilience						
State Parks Sea Level Rise Adaptation Strategy	3790	Parks	\$12	-	-	\$12
Coastal Protection and Adaptation	3760	SCC	-	\$350	\$150	\$500
Ocean Protection Trust Fund	0540	OPC	-	\$50	\$50	\$100
Building Community and Regional Climate Resilience						
Transformative Climate Communities	0650	SGC	\$115	\$165	\$140	\$420
Regional Climate Collaboratives	0650	SGC	\$10	\$10	-	\$20
Climate Adaptation & Resilience Planning Grants	0650	OPR	\$10	\$10	\$5	\$25
Vulnerable Communities Platform & Cal-Adapt Mapping	0650	OPR	\$5	-	-	\$5
Environmental Justice Initiative	0555	Cal EPA	\$10	\$10	\$5	\$25
California Climate Action Corps	0650	Cal Volunteers	\$5	\$5	\$5	\$14
Regional Climate Resilience Planning and Implementation	0650	OPR/SGC	\$25	\$125	\$100	\$250
State Conservancies Additional funding in out years carved out in Multi-Benefit/Nature-Based Solutions Set Aside	Various	Various	\$60	-	-	\$60
Strategic Climate Resilience Investments & Projects						
Biomass to Hydrogen/Biofuels Pilot	3480	DOC	-	\$50	-	\$50
	0540	CNRA	\$6	-	-	\$6
Fifth Climate Assessment	0650	OPR	\$11	-	-	\$11
	3360	CEC	\$5	-	-	\$5
Fluorinated Gas Reduction Incentive Program	3900	CARB	-	\$15	-	\$15
TOTAL FUNDING			\$369.2	\$2,089.7	\$1,229.7	\$3,688.5