



Item 15: Distributed Electricity Backup Assets Program Bulk Grid Asset Enhancements for Grid Reliability – GFO-23-401

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CEC Reliability Reserve Incentive Programs (AB 205 and AB 209)

	Distributed Electricity Backup Assets (DEBA)	Demand Side Grid Support (DSGS)
Incentivized Activities	Purchase of cleaner and more efficient distributed energy assets that would serve as on-call emergency supply or load reduction	Use of existing load reduction resources during extreme events
Eligibility	Statewide	Statewide



DEBA Program Overview

Eligible Projects	Description	Status	
Bulk Grid Asset Enhancements	Efficiency upgrades and capacity additions to existing bulk grid power generators	<ul style="list-style-type: none">Released \$150M Solicitation in Dec 2023Award notification released April 2024	 An aerial photograph showing a large-scale solar farm with rows of photovoltaic panels and an adjacent electrical substation with numerous insulators and transformers.
Distributed Energy Resources (DERs)	Zero- or low-emission technologies at existing or new facilities	<ul style="list-style-type: none">Draft concept released February 2024Public feedback March 2024Release of formal solicitation TBD	 A close-up photograph of an electrical control room or substation, showing several large metal cabinets and control panels mounted on a wall.



Solicitation Overview



Strengthen reliability by funding

- Efficiency upgrades
- Capacity additions



Prioritize feasible, cost-effective:

- Zero-and low-emission resources
- Conventional resources



Staff recommends about \$123 million for 297 MW

- 5 energy storage projects
- 4 conventional resource projects

First recommended agreement is with City of Roseville



Benefits to Californians



- Improve the efficiency of existing resources
- Support grid reliability during extreme events



City of Roseville

Roseville Efficiency Enhancements for Grid Reliability

- ~ \$1.4 million (\$0.15 million per MW)
- Current permit allows 67.2 MW
- Output is 44.5 MW due to inefficiencies
- Efficiency upgrades to increase output by 9.5 MW to 54 MW
 - Evaporative coolers to improve performance on hot days
 - Natural gas compression



Source: City of Roseville



Staff Recommendation

- Adopt staff's determination that this project is exempt from CEQA
- Approve DEBA grant agreement