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Demand Side Grid Support and Distributed Electricity Backup Assets

Presenter: Ashley Emery, CEC

Strategic Reliability Reserve (AB 205)





	Demand Side Grid Support (DSGS)	Distributed Electricity Backup Assets (DEBA)
Funding	\$295 Million (over 5 years)	\$700 Million (over 5 years)
Incentivized Activities	Use of load reduction resources during extreme events	Purchase of cleaner and more efficient distributed energy assets that would serve as on-call emergency supply or load reduction
Eligibility	Statewide	Statewide
Program Status	Launched August 2022 Incorporating lessons learned	Under development

Phased Approach to DSGS Expansion

2022	Phase 1: Expedited development and launch
2023	 Phase 2: Streamline and simplify participation Test approaches to maximize demand response Prepare for 2024 and beyond Explore and resolve policy tensions and operational complexities Secure a third-party administrator
2024 & Beyond	 Phase 3: Scale Unlock and grow cleaner resources for Strategic Reliability Reserve

DSGS Summer 2022 Impact: Estimates Based on Enrollment

Over 44 Individual Entities Participated Over 315 MW Enrolled

Total Estimated MW Enrolled to Dispatch Each Day





- Incorporate programmatic features inherently designed for contingencies.
- Address enrollment complexities.
- Improve communications.
- Offer increased visibility for CAISO and energy market into the energy load including customer and aggregator activity.



- Expand eligibility to certain IOU customers.
- Incorporate aggregators of customers as DSGS providers.
- Dispatch cleaner resources earlier.
- New market-integrated demand response incentive pathway.
- New market-aware battery storage incentive pathway.

Target 2023 DSGS Timetable

Target Dates (Subject to Change)	Milestone
January 27–February 17	 Workshop on lessons learned from Summer 2022. Written public comment period.
Winter and Spring 2023	Prepare draft modified guidelines.
April 26–May 11	 Workshop on proposed draft modified guidelines. Written public comment period.
May 2023	 Staff consideration of comments and revisions. Revised draft modified guidelines released.
June 2023	CEC consideration of modified guidelines at Business Meeting.
Early Summer 2023	 DSGS Program Guidelines, 2nd Edition, effective.
Summer 2023	Grow DSGS enrollment.



- Available statewide
- Funding recipients must participate as an on-call emergency resource
- Eligible Projects:

Efficiency	Incremental Clean
Upgrades to	Energy Additions at
Existing Power	Existing Power
Plants	Plants

Distributed Clean On-Peak Electricity Supply (Generation and/or Storage)

Equipment or Systems to Enable Demand Flexibility

DEBA Preliminary Investment Plan

Category	Budget Over Five Years
Bulk Grid Investments Efficiency upgrades, maintenance, and clean capacity additions to existing power generators;	~\$150M
Distributed Resources New zero- or low-emission technologies, including, but not limited to, fuel cells or energy storage, at existing or new facilities	~\$500M
CEC & Administrative Costs (Third Party Program Implementer for DEBA & DSGS)	Up to \$50M
Total	\$700M

DEBA Development Plan

