



Demand Side Grid Support Program

2025 Season Kickoff: Option 3 Providers

April 18, 2025

Agenda

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- 4 Events
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INTRODUCTION

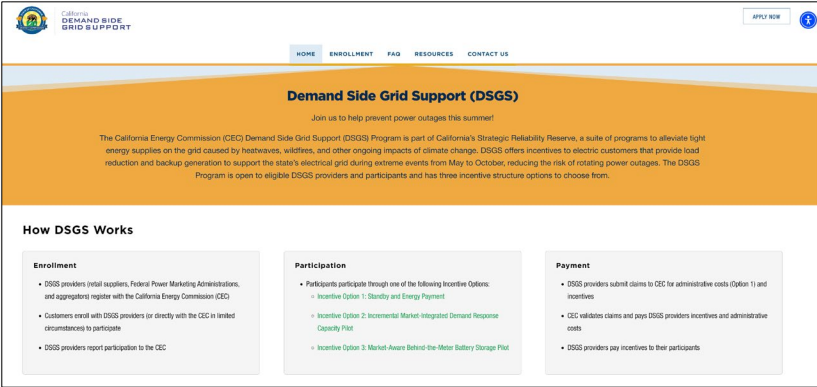
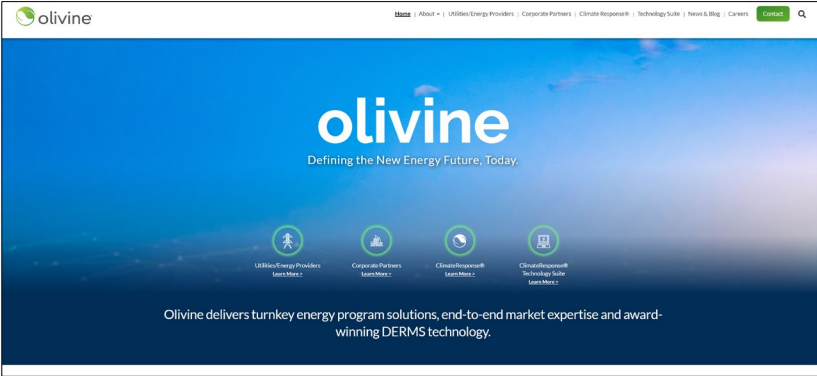
Olivine Introduction & Role in DSGS

About Olivine, Inc.

- California-based company focused on helping the state meet its renewable energy and GHG reduction goals
- Learn more at www.olivineinc.com

Role in DSGS

- Implementing DSGS on behalf of CEC
- Responsible for providing program management and infrastructure to support enrollment, dispatch, reporting and settlement.



Summer 2024 Program Enrollment and Activity

Over 35,000 participants and nearly 250 MW were enrolled in 2025.

	Option 3
Providers Enrolled	14
Participants Enrolled	37,627
Capacity Enrolled	248 MW
Events	26 hours over 16 days

Overview of Key Changes to Option 3 Guidelines

Section	Key Changes for 2024
Eligibility	<ul style="list-style-type: none">• Updates the minimum aggregation size requirements for storage virtual power plants (VPPs).• Increases the maximum allowable discharge to 2 MW.• Allows for dual participation as a California ISO proxy DR or reliability DR resource for the export-only portion of resource's discharge.• Clarifies participation rules for providers operating VPPs on behalf of partner companies.
Reporting	<ul style="list-style-type: none">• Establishes monthly meter data reporting requirement
Program Availability	<ul style="list-style-type: none">• Establishes a voluntary energy incentive (\$1.00/kWh) for participation in EEA events.
Test Events	<ul style="list-style-type: none">• Requires aggregators to pre-register test events.• If multiple test-events are conducted per month, only the most recent test event counts.
Claim Deadline	<ul style="list-style-type: none">• November 30, 2025

ELIGIBILITY

Provider Eligibility Changes

To be eligible, Aggregators must aggregate either:

- a) A total minimum nameplate power rating of 400 kW across all utility service territories and resource durations,
- b) At least one aggregation with a total minimum nameplate power rating of 200 kW, or
- c) At least three aggregations with a total minimum nameplate power rating of 100 kW each.

Example scenario:

A provider with the following would be **ineligible** under these updates (< 400 kW):

- 50 kW 2hr resource + 70 kW 4hr resource in PG&E
- 110 kW 2hr resource in SDG&E
- 110 kW 2hr resource in SCE

To become **eligible**, the provider would need to:

- Increase the total nameplate power in **one** of their PG&E aggregation to 100 kW
- Increase capacity in **any one** aggregation so that the total nameplate power rating of **all** resources is 400 kW
- Increase capacity in any **one** aggregation to 200 kW

Partner Eligibility Changes

In order for multiple partner companies under one aggregator to be measured and compensated separately, the DSGS provider must:

- **Submit separate Provider Enrollment Application for each partner's aggregation**
- **Identify the partner for each participating aggregation in the enrolled participation reports**

Each partner must meet all other aggregator requirements such as the minimum aggregate nameplate power.

Participant Eligibility Changes

To be eligible, each site participating:

- Should provide no more than 2,000 kW discharge during any hour of a program event.
 - A customer site may participate with a stationary battery system capable of discharging greater than or equal to **2,000** kW but any discharge greater than **2,000** kW during a given event hour will not be offered incentives.
- May not be participating in a California ISO proxy demand resource (PDR) or reliability demand response resource (RDRR) unless:
 - The participant's customer energy baseline reflects total gross consumption (that is, consumption independent of any energy produced or consumed by behind-the-meter battery storage) consistent with California ISO tariff Section 4.13.4 or
 - The participant is enrolled with an export-only DSGS resource (only the discharge exported to the grid is eligible). (See Chapter 5, Section E for details on this calculation)

PARTICIPANT ENROLLMENT

Changes to Participant Enrollment for 2025

- Minor changes to data fields required in the Monthly Participant Enrollment Report
- Monthly Participant Enrollment Report will be used for claims, instead of Final Report
- Aggregation-level Estimated Capacity (kW) no longer needed
- New Provider Portal will replace spreadsheets for Monthly Participant Enrollment Reports

Provider Portal Registration Process

New Provider Portal will allow import and automatic validation of Monthly Participant Enrollment Reports and Monthly Meter Data.

Portal Registration Instructions

1. DSGS will email a user-registration invitation to your primary and secondary point(s) of contact.
2. The invitation will provide a link for you to create a password.
3. Once password is created, users can log in and can submit files.
4. You may request additional users by emailing DSGS Support.

Participant Enrollment Report Submission Process

Olivine will send a Technical Guide on Monday (4/21) with instructions on data formatting and submission.

Submission Process Overview:

1. Prepare files as detailed in the Technical Guide.
2. Log into the Provider Portal.
3. Navigate to “**Submit Data File**” and select file.
4. Select “**Validate**” to receive feedback.
5. Select “**Submit**” once file has been validated.

The screenshot displays the 'Submit Data File' interface. At the top, there is a 'Home' button. Below it, the title 'Submit Data File' is shown. The 'File Selection' section includes a 'Select File' button, a note about drag-and-drop, and a progress bar for the file 'PGE-DSGS_OPTION_3-JID-202505.tsv' which is at 100%. There are 'Validate' and 'Submit' buttons. A green message states 'File was Submitted Successfully!' with a sub-note that the file will be processed by an administrator later. Below this is a 'Log Messages' table with columns for 'Level' and 'Message', currently showing 'No records to view'. At the bottom, there are 'Clear' and 'Export' buttons, and a copyright notice for 2016-2022 Olivine.

Key Changes to Participant Enrollment Report Format

The 2025 Monthly Report includes changes to field names for clarity, and adds a few new fields.

Field	Description
Batteries Installed Count	The number of batteries installed at each site
Apply Zero Baseline?	Indicate if the device should be eligible for a zero-baseline value. A response of True indicates the device should receive a zero-baseline value.
Estimated Full Duration Discharge (kWh)	A per-device estimate of discharge (kWh) over the full Nominated_Duration

Participant Enrollment Report Next Steps

Next Steps:

1. Olivine will post a Technical Guide for file submission and notify providers (4/21)
2. Olivine will send Portal User Registration invitation (4/21)
3. Create a password to complete your registration
4. Submit Participant Enrollment Report 3 business days before the first day of each month (April 28)

Reminders:

- If a site is not included in a participation report, that site will not be included in performance calculations for that month.



DSGS Option 3 Monthly Participation Enrollment File Data Format

1 Objective

The objective of this document is to define the information that is required to be submitted by DSGS Option 3 Providers in Monthly Participant Enrollment Reports ("Monthly Report").

2 File Format

Monthly Reports must be submitted in Tab-Separate Values (TSV) file format. In TSV format, individual fields (columns) are separated by tab characters. Provider will submit one file per UDC.

3 File Naming

Participation Files will be named in the following format:

{UDC}-{ProgramName}-{ProviderID}-{YYYYMM}.tsv

File Name Element	Description
UDC	The UDC will be one of "PGE", "SCE", "SDGE", "LADWP". Note, please exclude "&" from the UDC.
ProgramName	For Option 3, the program name must be "DSGS_Option_3".
ProviderID	The Provider ID must be a three-digit code given to each provider that uniquely identifies the provider's company.
YYYYMM	The YYYYDD fields represent the year and the month being submitted. For example, for creating a file for May participation for 2025, the YYYYMM would be 202505.

Note that we are requesting duplicate information in the file name and file body for validation purposes to ensure the right file is being submitted. Also note file extensions must be tab separated (tsv).

An Example Option 3 File name would be PGE-DSGS_OPTION_3-ABC-202505.tsv, where the submitted aggregations are within the PGE Utility region, "ABC" is the providers unique code, and the participation is being set for May 2025.

EVENTS

Option 3 Event Types

There are now three types of Option 3 Events:

Event Type	Event Trigger	Participation
Day-Ahead Price-Triggered	Hourly LMP \geq \$200/MWh	Included in Demonstrated Capacity Payment
(NEW) Day-Ahead EEA-Triggered	EEA Watch or above	Included in Demonstrated Capacity Payment
(NEW) Day-of EEA-Triggered	EEA Watch or above	Optional Energy Incentive, not included in Demonstrated Capacity Payment

Day-Ahead Events

- Day-Ahead Price-Triggered Events occur when the day ahead locational marginal price (LMP) for the VPP's host UDC is \geq \$200/MWh.
- Day-Ahead EEA-Triggered Events are triggered by CAISO-Issued Energy Emergency Alerts (EEA).
- The same logic for hour selection will apply to both event types: the consecutive hours (between 4 PM and 9 PM) with the highest mean LMP will be considered event hours.

Example: 2-Hour Resource

Time	Locational Marginal Price (\$/MWh)
4 PM - 5 PM	\$185
5 PM - 6 PM	\$195
6 PM - 7 PM	\$205
7 PM - 8 PM	\$199
8 PM - 9 PM	\$204



Event Hour

Day-of EEA-Triggered Events

- Day-of EEA Events are triggered by CAISO-Issued Energy Emergency Alerts (EEA).
- The event starting hour will be the later of:
 - A. The CAISO Notice Issued Time rounded to the nearest hour
 - B. The EEA Start Time listed on the event notice **rounded to the nearest hour**
 - C. 4:00 PM

Example A

Notice Issued Time	4:35 PM
EEA Start Time	4:00 PM
DSGS Start Time	5:00 PM

Example B

Notice Issued Time	4:22 PM
Event Start Time	5:00 PM
DSGS Start Time	5:00 PM

Example C

Notice Issued Time	2:00 PM
Event Start Time	3:00 PM
DSGS Start Time	4:00 PM

Example: Overlapping Day-Ahead and Day-of Events

If there is an existing day-ahead event and a day-of EEA trigger is called, previously communicated hours will be extended up to the full resource duration. **Below is an example for a 2-hour Resource.**

Day-Ahead Event Called for 6-7 PM

Time	Locational Marginal Price (\$/MWh)
4 PM - 5 PM	\$185
5 PM - 6 PM	\$195
6 PM - 7 PM	\$205
7 PM - 8 PM	\$191
8 PM - 9 PM	\$185



Price Triggered Hour

Day-of EEA Called for 4-9 PM

Time	Locational Marginal Price (\$/MWh)
4 PM - 5 PM	\$185
5 PM - 6 PM	\$195
6 PM - 7 PM	\$205
7 PM - 8 PM	\$191
8 PM - 9 PM	\$185



EEA Event Hour

*Note: 5-6 PM is an energy event

Option 3 Event Process



- 1:00 PM CAISO Day-Ahead locational marginal prices are made public.
- If a day-ahead EEA is issued, Olivine will send notification once LMPs are available.

- Olivine will create the correct event notification based on hourly prices for each UDC and Duration.
- Notifications will be sent to Provider event notification contacts and/or through API integration.

- Providers dispatch their customer's devices according to event dispatch instructions.

TEST EVENTS

Test Event Requirements

- All aggregations must be dispatched for at least one full-duration event per month from May to October.
- In the absence of a full-duration day-ahead event, providers must call at least one test event for each aggregation per month.
- Only the last test event for a given month will count towards demonstrated capacity. If a full-duration event gets called in a month, *no* test events will count towards demonstrated capacity.
- It is generally better to conduct test events later in the month, because any full-duration events called after the test event would nullify the test event.
- Test event hours must be determined using the same logic for program events on the chosen test event day. The hours must align with the **highest mean consecutive priced hours** for the DLAP. The correct hours for test events could vary by DLAP (ie. PGE, SCE, SDGE)

Extending Partial-Duration Events

- A provider may extend a partial-duration (e.g. 1-hour) event with test hour(s) to satisfy the required for a full duration event. The day-ahead event hours and test hours are included in the capacity calculation.
- The Day-Ahead Event logic for hour selection will apply to these events: the consecutive hours with the highest mean LMP must be selected for the test event hour(s).

Example: 1-Hour Event

Time	Locational Marginal Price (\$/MWh)
4 PM - 5 PM	\$185
5 PM - 6 PM	\$195
6 PM - 7 PM	\$205
7 PM - 8 PM	\$180
8 PM - 9 PM	\$178



Event Hour

Example: Extended Test Event

Time	Locational Marginal Price (\$/MWh)
4 PM - 5 PM	\$185
5 PM - 6 PM	\$195
6 PM - 7 PM	\$205
7 PM - 8 PM	\$180
8 PM - 9 PM	\$178



Test Hour

Test Event Reporting

- **New: Providers must communicate test event date/times to DSGS Program Team by 3:00 P.M. on the day prior to the test event day.**
- Olivine will review and confirm that the test event hours meet the requirements.
- Test event information must be provided as an email with a simple data file attached. Full instructions will be provided in a separate document by 5/1. Sample format:

ProviderID	UDC	Duration	EventStart	EventEnd
SRN	PGE	2	5/30/2025 18:00	5/30/2025 20:00
SRN	PGE	4	5/30/2025 17:00	5/30/2025 21:00
SRN	SCE	2	5/30/2025 18:00	5/30/2025 20:00
SRN	SDGE	2	5/30/2025 18:00	5/30/2025 20:00

METER DATA SUBMISSION

Meter data submission overview

Monthly submission requirement

- **Providers must submit submeter/inverter data within 15 business days after the end of each month for each site enrolled.**
- Example: Data for the month of May 2025 must be submitted by the 15th business day of June (6/23/2025).
- This Monthly meter data will be used for claim calculations.

Operational Requirements

- Meter data files will be uploaded each month through the Provider Portal.
- The Portal will perform validation on the data format and will provide specific messages indicating changes required.
- Olivine will post a Technical Guide with instructions on meter data format (and example files) and notify Providers by 5/1.
- Format is slightly different than 2024.
- Meter data must be split into separate files by UDC.

NEXT STEPS

Next Steps & Reminders

Next Steps:

1. Olivine will post a Technical Guide for Participant Enrollment Report file submission and notify providers (4/21).
2. Olivine will send Portal User Registration invitation (4/21).
3. Submit Participant Enrollment Report 3 business days before the first day of each month (April 28).
4. Olivine will send Test Event Pre-Registration instructions by 5/1.
5. Olivine will send Meter Data file submission instructions by 5/1.
6. Providers will submit Meter Data files for May by June 23.

Q&A



For more information,
please contact:

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THANK YOU!