

California Demand Response Programs

It's an exciting time to be an energy-consuming organization in California. That's because we're on the cusp of a new era in clean energy. Our drive toward generating 100% of our state's energy by way of renewable sources by the middle of this century is one no other state can match.

Getting there won't be easy, but the road of a pioneer seldom is.

That's why CPower wants to help your organization lead California toward a more sustainable future with a holistic demand-side management solution



California Programs

- Resource Adequacy (RA)
- Demand Side Grid Support (DSGS)

Program Comparison

Parameters	Resource Adequacy (RA) Capacity/Energy	DSGS Option 2
Commitment period	Summer (May-Oct)	
Commitment Hours	5-10 PM, May 4-9 PM, June-Oct	
Callable Hours/Events	4 hours consecutively	At least 3 hours consecutively
Max # of events/Day	None	None
# Test / Year	At least 1 per quarter for 4 hours	Must have one event per month
Min Curtailment Value	No	
Dispatch Notification	Day Ahead with possibility for 45 minute	Day ahead with possibility of real time
Dispatch Trigger	Bid cap of \$949/MWh	Bid cap of \$600/MWh
On-Site Generation Requirements	No Fossil	
Payment Bands	Pay for Performance No penalties	
Max hours (events) /Month/Year	None	35

Compensation and Requirements RA

Baseline	<ul style="list-style-type: none">▪ Weekday events are calculated on the average usage of each hourly interval out of 10 previous eligible weekday with a 20% day of adjustment cap, except sites that have solar, battery, or fuel cells will be uncapped.▪ Weekend events are calculated on the average of each hourly interval of the prior 10 eligible days, including weekend days, with a 20% day of adjustment cap.
Compensation	<ul style="list-style-type: none">▪ Capacity Payment: Monthly payment based on customer's monthly nominated kW or average performance in latest event/test. Prior performance carries forward if no event/test in the month.▪ Energy payments are made based on actual performance when an event is called.
Compliance	<ul style="list-style-type: none">▪ Customers are required to comply with all relevant rules and regulations.
Under and Non-performance	<ul style="list-style-type: none">▪ Pay for performance
Enrollment Deadline	<ul style="list-style-type: none">▪ Minimum 80 day prior to delivery month to meet CAISO registration timelines.
Metering	<ul style="list-style-type: none">▪ Each account must have an approved 15-minute interval meter or Smart Meter and approved meter communications equipment installed and operating at least 10 days prior to participating in the programs in order to establish a valid baseline.
Back-up Generation	<ul style="list-style-type: none">▪ No fossil generation for curtailment. All customers will have to provide information on any onsite fossil generation and attest to not using it for curtailment. Verification measures under development by CPUC and supporting data, including the potential for a utility paid for data logger, will be requested.
Dispatch Requirement	<ul style="list-style-type: none">▪ None, only if strike price clears the market
CPower App Requirements	<ul style="list-style-type: none">▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.

Compensation and Requirements DSGS Option 2

Baseline	<ul style="list-style-type: none">▪ Weekday events are calculated on the average usage of each hourly interval out of 10 previous eligible weekday with a 20% day of adjustment cap, except sites that have solar, battery, or fuel cells will be uncapped.▪ Weekend events are calculated on the average of each hourly interval of the prior 10 eligible days, including weekend days, with a 20% day of adjustment cap.
Compensation	<ul style="list-style-type: none">▪ Capacity and energy payments are made based on actual performance when an event is called.
Compliance	<ul style="list-style-type: none">▪ Customers are required to comply with all relevant rules and regulations.
Under And Non-performance	<ul style="list-style-type: none">▪ Pay for performance
Enrollment Deadline	<ul style="list-style-type: none">▪ Registration at least 41 business days prior to delivery month to meet CAISO registration timelines.
Metering	<ul style="list-style-type: none">▪ Each account must have an approved 15-minute interval meter or Smart Meter and approved meter communications equipment installed and operating at least 10 days prior to participating in the programs in order to establish a valid baseline.
Back-up Generation	<ul style="list-style-type: none">▪ No fossil generation for curtailment.
Dispatch Requirement	<ul style="list-style-type: none">▪ Resources are required to participate in the real-time market, which will entail an approximate 45-minute dispatch notification
CPower App Requirements	<ul style="list-style-type: none">▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.

Compensation and Requirements DSGS Option 3

Baseline	<ul style="list-style-type: none">For a nonresidential stationary battery resources receiving self-generation incentive program (SGIP) funding or with a host utility permission-to-operate date before July 1, 2023, an hourly prescriptive baseline of 0.028CapacitykWh shall be applied to battery discharge. For all other batteries, the baseline is defined as zero kW.
Compensation	<ul style="list-style-type: none">Capacity payment is made based on actual performance when an event is called.
Compliance	<ul style="list-style-type: none">Customers are required to comply with all relevant rules and regulations.
Under and Non-performance	<ul style="list-style-type: none">Pay for performance
Enrollment Deadline	<ul style="list-style-type: none">Three business days before the first day of each month for enrollments effective the first calendar day of that month.
Metering	<ul style="list-style-type: none">Battery inverter or submeter that can provide hourly/subhourly interval data.
Back-up Generation	<ul style="list-style-type: none">N/A – only available to behind-the-meter batteries
Dual Participation	<ul style="list-style-type: none">The DSGS battery may not participate in another demand response program

Performance Payment Bands

Utility Program	Performance Range	Payment Terms
RA	75-100%	Proportional
	60-75%	50% delivered capacity * price
	<60%	Performance shortfall calculation: [Delivered Capacity-(60% * Nomination)] * Price
DSGS	0-100%	Proportional