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)
- Emergency Load Reduction Program (ELRP)
- Demand Side Grid Support (DSGS)

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Program Comparison

Parameters	Load Serving Entities Resource Adequacy (Capacity/Energy)	DSGS Option 2
Dispatch	Day Ahead with possibility for 45 minute,	Real Time, Market price by sublap, with a bid cap of $949/MWh
Commitment period	Summer (May-Oct)	Summer (May-Oct)
Commitment Hours	4-9 PM weekdays 4-9PM Saturdays	4-9 PM Daily
Max # of events/Day	1	None
Callable Hours/Events	1-4 hours	1-6 hours
Min Curtailment Value	No	No
On-Site Generation Requirements	No Fossil	No Fossil
Payment Bands	Pay for Performance No penalties	Pay for performance No penalties.
Dispatch Trigger	Economic Bid into CAISO Market price by sublap, with a bid cap of $949/MWh	Economic bid into CAISO Market price by sublap, with a bid cap of $949/MWh
Max hours (events) / Month	24 hours	None
Max Hours / Year	None	None
# Test / Year	Up to 1 in June, Aug., and Oct.	Must have one event per month

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Program Parameters RA

BASELINE	▪ Weekday events are calculated on the average usage of each hourly interval out of 10 previous eligible weekday with an uncapped day of adjustment to the baseline; Saturday events are calculated on the average of each hourly interval of the prior 10 eligible days, including weekend days, with an uncapped day of adjustment to the baseline.
COMPENSATION	▪ 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	▪ Customers are required to comply with all relevant rules and regulations.
UNDER AND NON-PERFORMANCE	▪ Pay for performance
ENROLLMENT DEADLINE	▪ Minimum 80 day prior to delivery month to meet CAISO registration timelines.
METERING	▪ 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	▪ 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	▪ New for 2021, this program is required to provide "energy" via curtailment, this will require the program to be dispatched 35-40 hours per season
CPOWER APP REQUIREMENTS	▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.

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Program Parameters DSGS Option 2

BASELINE	▪ Weekday events are calculated on the average usage of each hourly interval out of 10 previous eligible weekday with an uncapped day of adjustment to the baseline; Weekend events are calculated on the average of each hourly interval of the prior 10 eligible days, including weekend days, with an uncapped day of adjustment to the baseline.
COMPENSATION	▪ Capacity and energy payments are made based on actual performance when an event is called.
COMPLIANCE	▪ Customers are required to comply with all relevant rules and regulations.
UNDER AND NON-PERFORMANCE	▪ Pay for performance
ENROLLMENT DEADLINE	▪ Registration at least 41 business days prior to delivery month to meet CAISO registration timelines.
METERING	▪ 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	▪ No fossil generation for curtailment.
DISPATCH REQUIREMENT	▪ Resources are required to participate in the real-time market, which will entail an approximate 45-minute dispatch notification
CPOWER APP REQUIREMENTS	▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.

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Program Parameters DSGS Option 3

BASELINE	▪ 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	▪ Capacity payment is made based on actual performance when an event is
COMPLIANCE	▪ Customers are required to comply with all relevant rules and regulations.
UNDER AND NON-PERFORMANCE	▪ Pay for performance
ENROLLMENT DEADLINE	▪ Three business days before the first day of each month for enrollments effective the first calendar day of that month.
METERING	▪ Battery inverter or submeter that can provide hourly/subhourly interval data.
BACK-UP GENERATION	▪ N/A – only available to behind-the-meter batteries
DUAL PARTICIPATION	▪ The DSGS battery may not participate in another demand response program

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Performance Payment Bands

UTILITY PROGRAM	PERFORMANCE RANGE	PAYMENT TERMS
RA	75-100% 0-75%	Proportional
DSGS	0-100%	Proportional

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