



# California Seasonal Preparation

CPower Panelists: Robert Nielsen, Joe Stickney

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5 / 14 / 24



# Housekeeping Items

- 01 Webinar is in listen only mode
- 02 Use the Q&A panel to submit questions
- 03 This webinar is recorded
- 04 Find this webinar, deck and program info at: [2024 CPower Seasonal Readiness](#)

# Agenda Items

- |    |                            |    |  |
|----|----------------------------|----|--|
| 01 | 2024 market overview       | 04 | Curtailment plan review                |
| 02 | Program information review | 05 | Communications, alerts & notifications |
| 03 | Updating information       | 06 | Recap & meet the team                  |

# Presenters



**Robert Nielsen**

Account Executive, West Region  
CPower



**Joe Stickney**

VP, Customer Experience  
CPower

# Program Snapshots

## California Demand Response Programs

- [California Demand Response Snapshots](#)
  - [Capacity Bidding Program \(CBP\)](#)
  - [Base Interruptible Program \(BIP\)](#)
  - [Resource Adequacy \(RA\)](#)
  - [Emergency Load Reduction Program \(ELRP\)](#)
  - [Demand Side Grid Support Program \(DSGS Option 2\)](#)



Program snapshots provide a quick review of program rules and participation parameters.



# CAISO - Important Market Updates

## Demand Side Grid Support (DSGS) Program

- DSGS Program is part of California's Strategic Reliability Reserve
- Suite of programs to alleviate tight energy supplies on the grid caused by heatwaves, wildfires, and other ongoing impacts of climate change
- Incentives to electric customers that provide load reduction and backup generation to support the state's electrical grid
- The DSGS Program is open to eligible DSGS providers and participants and has three incentive structure options to choose from
- CPower offers option 2 and option 3 under the DSGS program on behalf of the CEC
  - *Option 2 – Capacity (Payments based on demonstrated capacity excess of RA capacity commitments)*
  - *Option 3 – Storage (VPP aggregators receive payments based on demonstrated battery capacity)*

# California Programs Overview –

## BIP, CBP, DRAM, ELRP & DSGS

Parameters	PG&E BIP	PG&E CBP Elect	SCE CBP	SDG&E CBP Elect	Statewide ELRP
<b>Dispatch</b>	Day Of (30 or 15 min)	Day Ahead	Day Ahead	Day Of (40 min)/ Day Ahead	Day Of
<b>Commitment period</b>	Annual (Jan-Dec)	Summer (May-Oct)	Summer (Jan-Dec)	Summer (May-Oct)	Summer (May-Oct)
<b>Commitment Hours</b>	24/7/365	1-9 PM Mon-Sat	May: 5-10 PM Mon-Sat June-Sept: 4-9 PM Mon-Sat Oct: 4-9 PM Mon-Fri	1-9 PM Mon-Sat	4-9 PM Daily
<b>Max # of events/Day</b>	1	1	1	1	1
<b>Callable Hours/Events</b>	Maximum 6 hours	1-4 hours	1-5 hours	2-4 hours	5
<b>Min Curtailment Value</b>	100kW	No	No	20 kW	No
<b>On-Site Generation Requirements</b>	No Fossil	No Fossil	No Fossil	No Fossil	Fossil Permitted
<b>Payment Bands</b>	Below 100% excess energy applies	75-105% Proportional Below 75% reduced payments/penalties	75-105% Proportional Below 75% reduced payments/penalties	75-100% Proportional Below 75% reduced payments/penalties	Pay for Performance No penalties.
<b>Trigger</b>	System Alert or Emergency	Economic bid into CAISO	Market price trigger	Market price trigger/ Economic bid into CAISO	System Alert or Emergency
<b>Max Hours (Events) / Month</b>	40 hours	5 Events	30 hours (6 events)	24 hours	60
<b>Max Hours / Year</b>	180 hours	120 hours	None	144 hours	60
<b># Test / Year</b>	Up to 2	Up to 1 per month	Up to 1 per month	Up to 1 per month	N/A

# California Programs Overview –

## BIP, CBP, DRAM, ELRP, & DSGS




Parameters	Resource Adequacy (RA)	DSGS Option 2
Dispatch	Day Ahead with possibility for 45 minute	Real Time
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
Trigger	Economic Bid into CAISO	Economic bid into CAISO
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 test or event per month








# Program Overview – CBP

## Program Rules and Parameters

 <b>BASELINE</b>	<ul style="list-style-type: none"><li>▪ For weekdays, the average usage of each hourly interval out of 10 previous eligible weekdays. For weekends and holidays, the average usage of each hourly interval out of 4 previous eligible weekdays. Customer can choose baseline with or without day-of adjustment.</li><li>▪ (60% to 140%) or without day-of adjustment.</li></ul>
 <b>COMPENSATION</b>	<ul style="list-style-type: none"><li>▪ Payments for Capacity and Energy are based on monthly kW curtailment nomination, adjusted by performance.</li><li>▪ Energy payments are made only to bundled customers when either an event or test is called.</li></ul>
 <b>COMPLIANCE</b>	<ul style="list-style-type: none"><li>▪ Customers are required to comply with all relevant rules and regulations.</li></ul>
<b>UNDER AND NON-PERFORMANCE</b>	<ul style="list-style-type: none"><li>▪ Payment is proportional to performance until performance reaches 75% of nomination, at which point payment is 50% of nomination until performance reaches 60% where payment drops to 0% and penalties begin to accrue. Performance during emergency events is not included in the calculation of program performance.</li></ul>
<b>ENROLLMENT DEADLINE</b>	<ul style="list-style-type: none"><li>▪ Contract and add forms must be finalized by the 1st day of the month prior to the operating month. Actual deadline for utilities is 15 days prior to the operating month.</li></ul>
<b>METERING</b>	<ul style="list-style-type: none"><li>▪ 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. PG&amp;E requires 3 months of data.</li></ul>
<b>BACK-UP GENERATION</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
<b>CPOWER APP REQUIREMENTS</b>	<ul style="list-style-type: none"><li>▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.</li></ul>




# Program Overview – PG&E BIP

## Program Rules and Parameters

 <b>BASELINE</b>	<ul style="list-style-type: none"><li>▪ Summer Potential Load Reduction (PLR) is based upon the average monthly demand during On-Peak hours (on-peak kWh divided by on-peak hours) excluding any days where customers participated in a DR event.</li><li>▪ Winter Potential Load Reduction (PLR) is based upon the average monthly demand during assessment hours.</li><li>▪ Partial-Peak hours (partial-peak kWh divided by partial-peak hours) excluding any days where customers participated in a DR event.</li></ul>
 <b>COMPENSATION</b>	<ul style="list-style-type: none"><li>▪ Capacity Payment: based upon the difference between the applicable Summer or Winter monthly PLR and the Firm Service Level.</li></ul>
 <b>COMPLIANCE</b>	<ul style="list-style-type: none"><li>▪ Customers are required to comply with all relevant rules and regulations.</li></ul>
<b>UNDER AND NON-PERFORMANCE</b>	<ul style="list-style-type: none"><li>▪ Failure to reduce usage below FSL results in penalty payments back to PGE at a specified \$/kWh amount.</li><li>▪ Payments will be netted against customer payments to reduce risk of out-of-pocket expenditures.</li></ul>
<b>ENROLLMENT DEADLINE</b>	<ul style="list-style-type: none"><li>▪ New Enrollments are only processed in April, contracts must be finalized and add forms submitted by mid-March.</li><li>▪ De-enrollments and FSL changes may only occur in November for the following calendar year.</li></ul>
<b>METERING</b>	<ul style="list-style-type: none"><li>▪ Each account must have an approved 15-minute interval 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.</li></ul>
<b>BACK-UP GENERATION</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
<b>CPOWER APP REQUIREMENTS</b>	<ul style="list-style-type: none"><li>▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.</li></ul>




# Program Overview – Resource Adequacy (RA)

## Program Rules and Parameters

 <b>BASELINE</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
 <b>COMPENSATION</b>	<ul style="list-style-type: none"><li>▪ 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.</li><li>▪ Energy payments are made based on actual performance when an event is called.</li></ul>
 <b>COMPLIANCE</b>	<ul style="list-style-type: none"><li>▪ Customers are required to comply with all relevant rules and regulations.</li></ul>
<b>UNDER AND NON-PERFORMANCE</b>	<ul style="list-style-type: none"><li>▪ Pay for performance</li></ul>
<b>ENROLLMENT DEADLINE</b>	<ul style="list-style-type: none"><li>▪ Minimum 80 days prior to delivery month to meet CAISO registration timelines.</li></ul>
<b>METERING</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
<b>BACK-UP GENERATION</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
<b>DISPATCH REQUIREMENT</b>	<ul style="list-style-type: none"><li>▪ Day-ahead notification</li></ul>
<b>CPOWER APP REQUIREMENTS</b>	<ul style="list-style-type: none"><li>▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.</li></ul>

# Program Overview – DSGS (Option 2)

## Program Rules and Parameters

 <b>BASELINE</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
 <b>COMPENSATION</b>	<ul style="list-style-type: none"><li>▪ Capacity and energy payments are made based on actual performance when an event is called. Capacity incentives are paid over RA obligation at the DR providers portfolio level.</li></ul>
 <b>COMPLIANCE</b>	<ul style="list-style-type: none"><li>▪ Customers are required to comply with all relevant rules and regulations.</li></ul>
<b>UNDER AND NON-PERFORMANCE</b>	<ul style="list-style-type: none"><li>▪ Pay for performance</li></ul>
<b>ENROLLMENT DEADLINE</b>	<ul style="list-style-type: none"><li>▪ Registration at least 41 business days prior to delivery month to meet CAISO registration timelines.</li></ul>
<b>METERING</b>	<ul style="list-style-type: none"><li>▪ 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.</li></ul>
<b>BACK-UP GENERATION</b>	<ul style="list-style-type: none"><li>▪ No fossil generation for curtailment.</li></ul>
<b>DISPATCH REQUIREMENT</b>	<ul style="list-style-type: none"><li>▪ Resources are required to participate in the real-time market or day-ahead market. Real-time market requires approximately a 45-minute dispatch notification.</li></ul>
<b>CPOWER APP REQUIREMENTS</b>	<ul style="list-style-type: none"><li>▪ If curtailable load per account is in excess of 500kW, the CPower App is required and CPower shares the cost with customer.</li></ul>

# Program Overview – ELRP

## Program Rules and Parameters



<b>ELIGIBILITY AND STACKABILITY</b>	<ul style="list-style-type: none"><li>▪ Customers may “stack” this program with capacity programs and be paid for incremental curtailments or use of fossil resources during ELRP events. There is no minimum dispatch in this scenario.</li><li>▪ Customer not dual enrolled in a capacity program will receive at least 10 hours of dispatch per season to ensure a revenue opportunity.</li></ul>
<b>BASELINE</b>	<ul style="list-style-type: none"><li>▪ Average usage of each hourly interval out of 10 previous eligible weekdays. Customer can choose baseline with or without day-of adjustment.</li><li>▪ (60% to 140%) or without day-of adjustment.</li></ul>
<b>COMPENSATION</b>	<ul style="list-style-type: none"><li>▪ \$2000/MWH payment rate for event performance</li></ul>
<b>COMPLIANCE</b>	<ul style="list-style-type: none"><li>▪ Customers are required to comply with all relevant rules and regulations.</li></ul>
<b>UNDER AND NON-PERFORMANCE</b>	<ul style="list-style-type: none"><li>▪ None</li></ul>
<b>ENROLLMENT DEADLINE</b>	<ul style="list-style-type: none"><li>▪ Rolling monthly enrollment</li></ul>
<b>METERING</b>	<ul style="list-style-type: none"><li>▪ 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. PG&amp;E requires 3 months of data.</li></ul>
<b>BACK-UP GENERATION</b>	<ul style="list-style-type: none"><li>▪ Approved fossil generation may be used for curtailment. Customers will have to provide information on any onsite fossil generation used for participation.</li></ul>

# Review & Update Information

Reviewing and updating your organization's contact information



- Responsible Parties for Notifications: Make sure all relevant contacts are up to date
  - Make sure to send the persons' names, email addresses and phone numbers
  - Any changes to former or added staff on your current notification group



- Responsible Parties for Notifications: Make sure all relevant contacts are up to date
  - CPowerDispatch@mg.cpowerenergymanagement.com
  - Add the CPower Dispatch number to your cell phones – “Demand Response Notification”
    - 410-346-5907



- Review Your Plan:
  - Make sure the plan is accurate and aligns with your curtailment commitments and resources.

# Curtailment Review

**CPower** Demand Response Curtailment Plan

Plan Effective Date: 3/11/2024

**Curtailment Plan Summary**

**Executive Summary Overview**

The Customer has agreed to participate in the following Demand Response (DR) program(s) at the listed facilities. The intent of this document is to provide guidance on how to successfully respond to demand response events. This includes a list of curtailment measures and provides a basic understanding of program requirements. Please notify the CPower Engineering team at [Engineering@CPowerEnergyManagement.com](mailto:Engineering@CPowerEnergyManagement.com) if you have any changes to your facility, curtailment actions, or any other information listed in this Curtailment Plan.

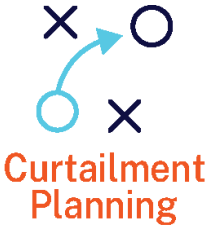
<p><b>Utility Account Information</b></p> <p>Company: _____</p> <p>Facility #: _____</p> <p>Address: _____</p> <p>City: _____</p> <p>State: _____</p> <p>Zip: _____</p>	<p><b>Facility Information</b></p> <p>EDC Utility: _____</p> <p>Account Number(s): _____</p> <p>Account Number(s): _____</p> <p>Account Number(s): _____</p> <p>Account Number(s): _____</p>
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**Enrolled Program**

	Curtailment Estimates				
	Summer		Winter		
<input type="checkbox"/> APS Peak Solution Program	Load Shed	<input type="text" value="0"/>	kW	<input type="text" value="0"/>	kW
<input type="checkbox"/> Demand Response Auction Mechanism	Load Shed	<input type="text" value="0"/>	kW	<input type="text" value="0"/>	kW
<input type="checkbox"/> Base Interruptible Program	Load Shed	<input type="text" value="0"/>	kW	<input type="text" value="0"/>	kW
<input type="checkbox"/> Capacity Bidding Program	Load Shed	<input type="text" value="0"/>	kW	<input type="text" value="0"/>	kW
<input type="checkbox"/> Peak Demand Management Program	Load Shed	<input type="text" value="0"/>	kW	<input type="text" value="0"/>	kW
<input checked="" type="checkbox"/> SCE Resource Adequacy	Load Shed	<input type="text" value="45"/>	kW	<input type="text" value="45"/>	kW

### Check with your account manager to:

- Ensure bid amounts are accurate
- Ensure contacts are up to dates



### Curtailment Plans:

- CPower curtailment plans outline the various curtailment strategies that your facility may implement during a demand response event.
- Let us know if you need to update an existing plan!
- If you don't already have a curtailment plan, we can schedule a meeting with CPower Engineering to review your strategy and develop a plan.

### Distributed Energy Resources:

- Let us know if you've added any DER assets to your facility – i.e. Solar, battery, backup generation, etc.

# Dispatch Notification

## Communications Drill

- Communication Drill: Tuesday, May 21, 2024 [10 AM PDT]
  - This is only a test. DO NOT curtail.

Send

To Mr. Customer

Cc

Bcc

Subject New York State Grid Operator Communication Drill ONLY - NO CURTAILMENT NECESSARY

This is a test of the CPower Notification system for the New York State Grid Operator region only. This is NOT a curtailment event, do NOT curtail your load. If you have any questions, please contact Customer Service at (844) 276-9371.

Below you will find the list of specific facilities impacted by this dispatch.

Facility Name	Address	Account Number	Dispatch Target
Test Facility	Test Address	Test Account	Test Target


Thank you for your participation in this communication drill.

Thank you,

CPower Dispatch Team

24x7 Phone: (410) 346-5907

Email: [CPowerDispatch@CPowerEnergyManagement.com](mailto:CPowerDispatch@CPowerEnergyManagement.com)





# CPower Dispatch Team



## **100% in house Dispatch Operations**

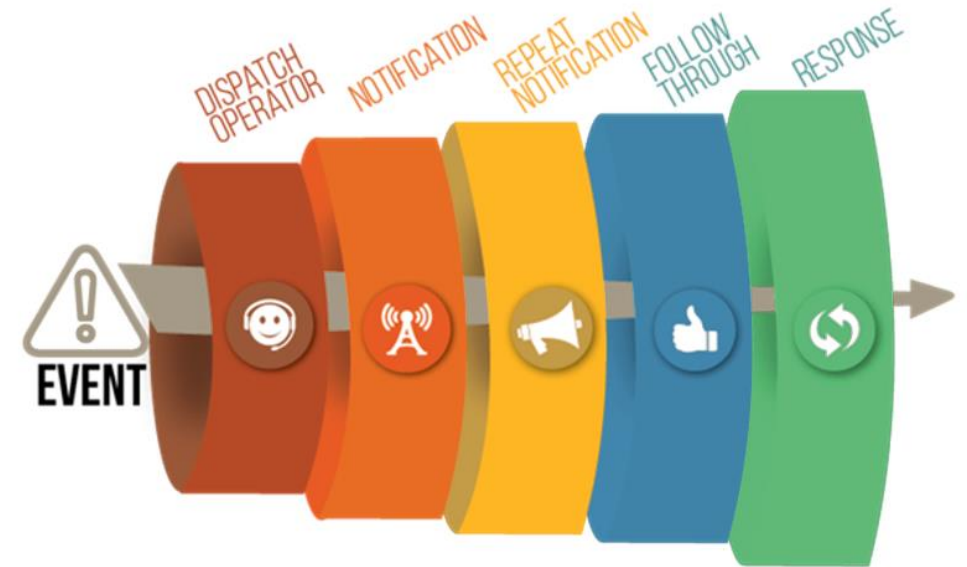
ensures accuracy and helps identify and resolve issues in real time so you can perform to your potential.



# All Call System Functionality

## Understanding The CPower Dispatch System

- The All Call System utilizes:
  - Phone
  - Email
  - Text Message
  - The System notifies all relevant contacts based on the program notification requirements
- The All Call System will:
  - Be activated by CPower Dispatch Operators
  - For both test and real events
  - Send important preparation, start and completion notifications by utility, zone, or ISO.



# All Call System Functionality

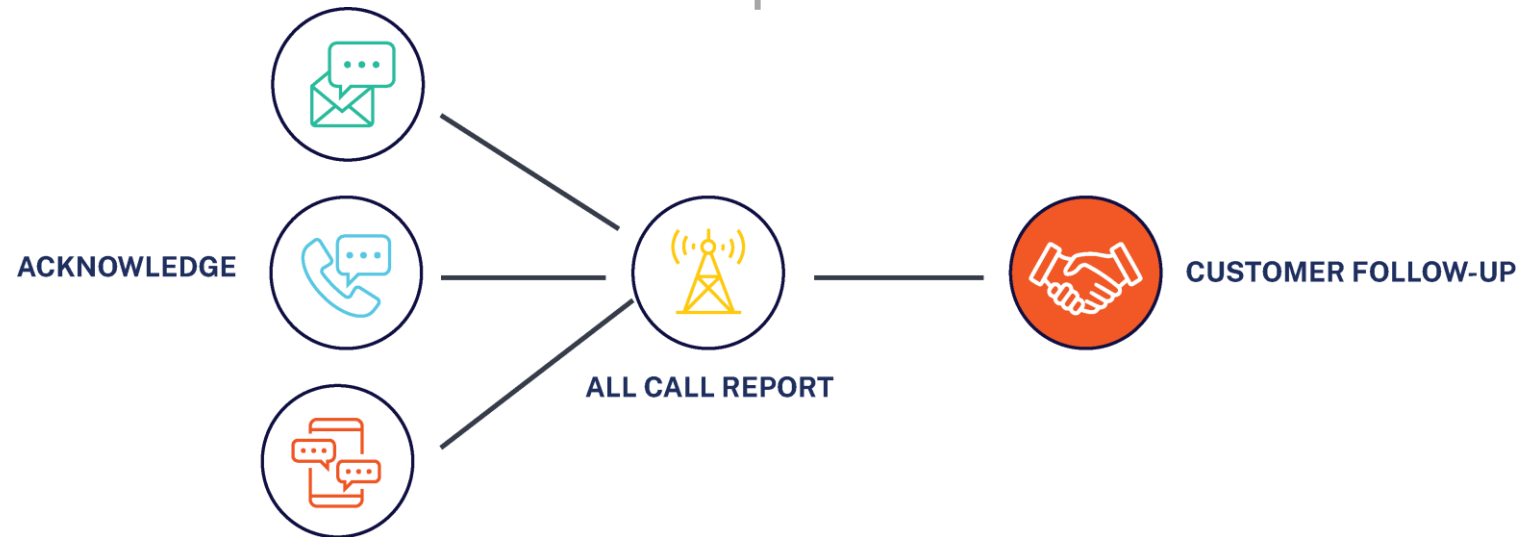
## Understanding The CPower Dispatch System

- Phone Number for Events and Tests

- 410-346-5907
  - Also sends text message alerts
- This is the direct line of our 24x7 dispatch service desk.

- Emails for Events and Tests:

- [cpowerdispatch@mg.cpowerenergymanagement.com](mailto:cpowerdispatch@mg.cpowerenergymanagement.com)
- Ensure this address is added as a safe sender.



# All Call System Functionality

## Phone and Email Messages



- Phone Call Message
  - Greeting and prompt to play message
  - The entire message must be heard before confirmation
  - Upon message completion, “did you understand?” will be asked
  - Press (1) for yes, (2) for no. (1) will end the notifications to that contact, (2) Will repeat the message.



- Email
  - An event email will be sent by the system (if you have email set up for notification).
  - There is no need to reply to the email.

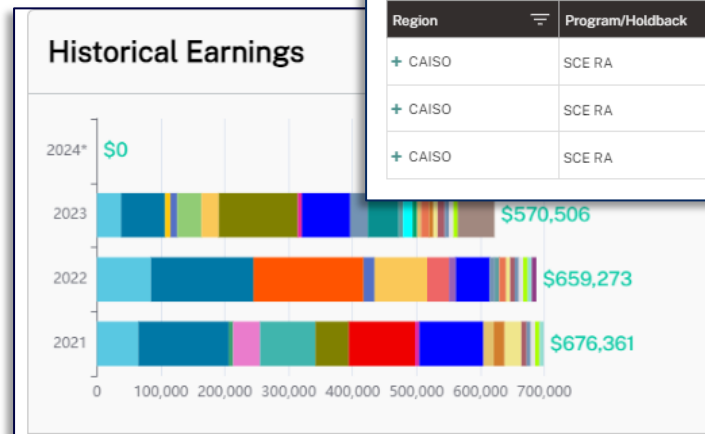
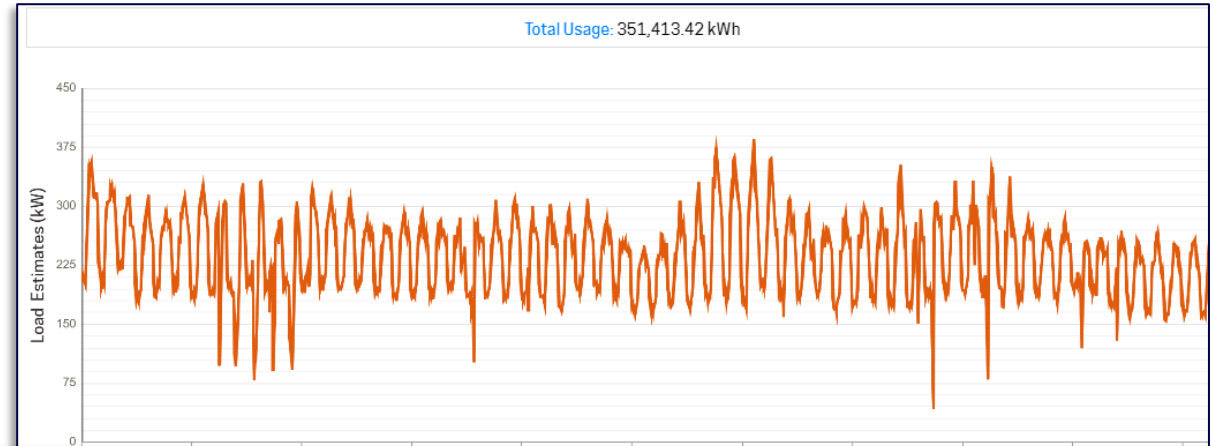


- Text/SMS (smartphones only)
  - An event notification text will be sent to your phone (if you have text notification set up).
  - You will reply, and type the word “yes” into the body of the text and send.
  - We must receive TXT acknowledgments back within 2 hours of sending dispatch notices.
  - After that time, the system closes down, and we will not register an acknowledgement.

# CPower Portal

## Energy Management at Your Fingertips

- CPower Portal provides real-time:
  - Energy usage (with meter)
  - Payments & Statements



Region	Program/Holdback	Payment Period Start Date	Payment Period End date	Amount
+ CAISO	SCE RA	10/1/2022	10/31/2022	\$1,201.60
+ CAISO	SCE RA	9/1/2022	9/30/2022	\$54.47
+ CAISO	SCE RA	8/1/2022	8/31/2022	\$1,183.47

# Recap

## Important things to remember

- Season began May 1, 2024
- Be sure to update contacts
- Respond to all tests and communications drill
  - Tues., May 21, 2024, at 10 AM PDT
- Make sure you have back up personnel in case of emergency
- Ensure everyone reviews this training
- Review curtailment plan and/or curtailment strategy
- Make sure metering is up and running and accurate



# Additional Resources

## One Stop Shop for Demand Side Energy Management

### THE **Current**

Stay ahead of the energy curve with CPower.

Download white papers, webinars, blogs,  
case studies and more at  
[CPower's online publication,  
The Current](#)



### SEASONAL READINESS 2024

View this webinar and content as well  
as all other markets we serve on our  
[Seasonal Readiness Portal](#)

# CPower's California Team

## Meet Your Local Team!



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# Thank You!

Questions & Answers



# Event History

## By Utility and Program

UTILITY	PROGRAM OPTIONS	AVERAGE EVENT HISTORY		
		Average of 2023 and 2018-2022 Average		
		Avg. # of Events	Avg. Hours Called	Avg. Hour/Event
SCE	CBP Day Ahead	24.5	97.5	4
	RA	17	47.3	2.8
PG&E	Day Ahead Elect	8.5	18	2.1
	BIP	1.5	2.6	1.7
SDG&E	CBP Day Of Late Window	9	21.5	2.4
	CBP Day Ahead Late Window	10	21.5	2.2