Flex Alert Overview

Joe Britton
Public Affairs Manager

Joe Gabaldon
Public Affairs Manager
Agenda

1. What is the CAISO?
2. What is a Flex Alert?
3. Cycle of Curtailment
4. CAISO Notifications
5. SDG&E’s Grid Resiliency Efforts
California Independent System Operator

- Created in 1998 as part of the state’s energy market restructuring
- Manages the flow of electricity on California’s grid
- Operates the wholesale energy marketplace
- Operates 24/7
- Led by a five-member Board of Governors with Federal Energy Regulator Commission oversight
- 30 million customers in California

www.caiso.com
What is a Flex Alert?

Voluntary call for conservation across the state.

Issued by the California Independent System Operator (CAISO) when there is an anticipated shortage of energy supply

Contributing factors

• Humid, hot weather and heat storms drive up electricity use
• Unplanned power plant outages
• Fires that threaten or affect transmission lines

Customer notifications

• Statewide marketing campaign to drive awareness and urge conservation when Flex Alert is called
• Sign-up for notifications at flexalert.org
Cycle of Curtailment

Flex Alert

• Alert issued by 1500 the day prior
  • Conservation efforts and voluntary curtailment for large business customers

Stage 1-2

• Load interruption is immanent

Stage 3

• CAISO issues notice to curtail for rolling 1-hr blocks*

Curtailment

• Reserve shortfall no longer exists

Termination

*Each block is curtailed for a maximum of 1-hr. Number of blocks is determined by how many megawatts are included in the CAISO order. Once the order is given, curtailment is required within 10 mins. Blocks are listed on www.sdgenews.com when a Flex Alert is issued, and GIS maps are shared with public safety partners who have access the PSPS secure map portal.
CAISO Notifications

Based anticipated scope

Reserve Deficiency Alert → Warning → Stages 1-3 → Curtailment → Restoration → Alert Termination

- City, County, Tribal, and State EM officials
- Elected officials for potentially impacted jurisdictions and CCA’s

- Potentially Affected Customers
- CPUC
- Work with large commercial customers to encourage load shed

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* It is possible, in such cases as a CAISO declared System or Transmission Emergencies, that CAISO could order an IOU or multiple IOUs to shed load immediately whether or not the ISO has previously issued any alert or warning. In this scenario:
  - The priority is to shed the required load to preserve the security of the Electric System in the State
  - IOUs will notify county and state emergency management entities as soon as possible
  - Elected officials in impacted jurisdictions will be notified as soon as possible
  - Customers will be notified as soon as possible
## Grid Resiliency Efforts

<table>
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<tr>
<th>Grid Reliability</th>
<th>Demand Response Programs</th>
<th>Customer Outreach</th>
<th>Customer Action</th>
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</thead>
<tbody>
<tr>
<td>Expanded local energy generation resources and capacity</td>
<td>New for the summer of 2021 • California State Emergency Load Program • Emergency Load Reduction Pilot Residential and Commercial program • SDGE.com/dr</td>
<td>Summer campaign to reinforce energy saving tips and 4 – 9 pm on-peak period • Save energy and money • Make better use of cleaner, renewable energy sources</td>
<td>Sign-up for notification at flexalert.org • Set thermostats to 78, health permitting • Avoid using large appliances • Turn off unnecessary lights • Block the sun with drapes/blinds • Use fans</td>
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<tr>
<td>Procured resources • 260 MW of new energy storage resources</td>
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QUESTIONS

Joe Britton
jbritton@sdge.com
(858) 654-8271

Joe Gabaldon
jgabaldon@sdge.com
(760) 445-0771