



air pollution control district
SANTA BARBARA COUNTY

ENERGY RELIABILITY

South Central Coast Basinwide Air Pollution Control Council

Our Mission: To protect the people and the environment
of Santa Barbara County from the effects of air pollution.

David Harris
Manager, Engineering Division

Aeron Arlin Genet
Director / APCO

September 22, 2022



BACKGROUND

- Increased electricity demand during hot summer months
- Energy supply shortages during peak afternoon-evening periods
- 52,061 MW peak load
September 6, 2022



California ISO



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CALISO EMERGENCY NOTIFICATIONS

- Alert system to keep public and market participants informed
- Notifications are ranked according to severity
- Notifications match the North America Electric Reliability Corporation's Energy Emergency Alert system



Flex Alerts

A Flex Alert is a call to consumers to voluntarily conserve electricity when the ISO anticipates using nearly all available resources to meet demand. Reducing energy use during a Flex Alert can prevent more dire measures, such as moving into EEA notifications, emergency procedures, and even [rotating power outages](#). Visit the ISO's [Flex Alert](#) website for energy conservation tips and to sign up for notifications.



EEA Watch

Analysis shows all available resources are committed or forecasted to be in use, and energy deficiencies are expected. Market participants are encouraged to offer supplemental energy. This notice can be issued the day before the projected shortfall or if a sudden event occurs.

EEA 1

Energy Emergency Alert 1

Real-time analysis shows all resources are in use or committed for use, and energy deficiencies are expected. Market participants are encouraged to offer supplemental energy and ancillary service bids. Consumers are encouraged to conserve energy.

EEA 2

Energy Emergency Alert 2

ISO requests emergency energy from all resources and has activated its emergency demand response program. Consumers are urged to conserve energy to help preserve grid reliability.

EEA 3

Energy Emergency Alert 3

ISO is unable to meet minimum contingency reserve requirements and has asked utilities to prepare for the possibility of rotating power outages.

Energy Emergency Alert 3 – Firm Load Interruption

ISO energy supply is not able to meet demand which directs utilities to initiate controlled rotating power outages in accordance with their emergency plan.

GOVERNOR'S PROCLAMATIONS

- Issued in by Governor's Office in response to energy emergencies
- Suspend state and local air quality regulations and permits
- Required energy utilities to establish Emergency Load Reduction Programs

EXECUTIVE DEPARTMENT STATE OF CALIFORNIA

PROCLAMATION OF A STATE OF EMERGENCY

WHEREAS beginning on August 31, 2022, a significant heat wave is hitting California, bringing temperatures in excess of 100 degrees throughout the State and is forecast to bring record temperatures 10-20 degrees above normal throughout the State, exceeding 110 degrees in some areas (the "Extreme Heat Event"); and

WHEREAS as a result of the Extreme Heat Event, on August 30, 2022, the National Weather Service issued Excessive Heat Warnings and Excessive Heat Watches within the State in effect beginning on August 31, 2022, through September 6, 2022; and

WHEREAS the Extreme Heat Event is putting and will continue to put significant demand and strain on California's energy grid; and

WHEREAS the Extreme Heat Event is forecast to be a West-wide event, meaning that energy demand will be high across the region and California will have limited ability to import energy from out-of-state; and



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EMERGENCY LOAD REDUCTION PROGRAMS

- Financial incentives to use less energy during grid emergencies
- Incentivizes operation of backup generators
- Increases emissions during peak ozone season



EMERGENCY LOAD REDUCTION PROGRAM (ELRP)
A flexible way to get incentives for using less energy.

Southern California Edison's (SCE) Emergency Load Reduction Program (ELRP) is a flexible Demand Response (DR) program. When you participate in ELRP, not only do you conserve energy and help the environment, you also receive financial incentives to use less energy during grid emergencies. While you're relieving stress on the grid to help prevent power shortages in your community, you'll earn \$2 per kilowatt-hour (kWh) reduced during ELRP events, with zero penalties if you can't participate.



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AGENCY COORDINATION

- Results from air district coordination with other agencies:
 - Generators only called on during extreme events
 - Statewide prohibition of registration of diesel engines in DACs
 - Mitigation funds for areas impacted by diesel engine usage



DISTRICT OUTREACH

- Issued advisories during recent heat emergency
- Sent to all permit holders using Mailchimp
- Added advisory to our homepage during event
- Shared on social media
- Received 5 notifications for 25 generators



CONSERVE ENERGÍA: En respuesta a la ola de calor y la escasez de energía relacionada, tome medidas para reducir el uso de energía entre las 4:00 p. m. y las 9:00 p. m., cuando la red de energía del estado está más estresada por la mayor demanda y menos energía solar.

- Ajuste los termostatos a 78° o más
- Evite el uso de electrodomésticos grandes.
- Apague las luces innecesarias y use lámparas que sean energéticamente eficientes
- Si tienes un coche eléctrico, cárgalo antes de las 4:00 p.m. o después de las 9:00 p.m.

Si es una facilidad autorizada por el APCD, consulte el "Sept. Ola de Calor y Escasez de Energía" disponible en nuestra página de internet: www.OurAir.org.

Today's Air Quality & Forecasts | Santa Barbara County Air Poll...
ourair.org

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Heat Wave & Energy Shortages – Governor's Emergency Proclamation

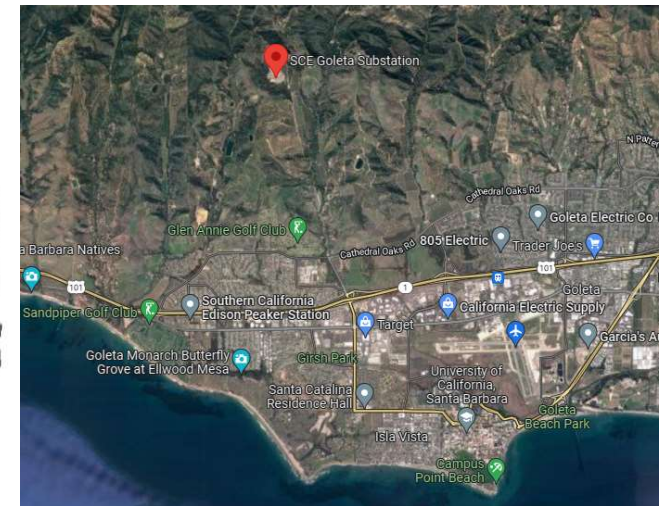
In response to the current heat wave and potential related energy shortages, Governor Gavin Newsom signed an emergency proclamation that will allow the use of backup generators and similar backup power sources to reduce the strain on California's electrical grid during peak times of the energy emergency. The proclamation suspends air quality requirements for power plants and also allows them to increase energy production to assist with current needs, and allows at-berth ships to operate auxiliary engines. The proclamation, which remains in effect until midnight on September 7, 2022, can be found [here](#).



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SOCAL EDISON ENGINES

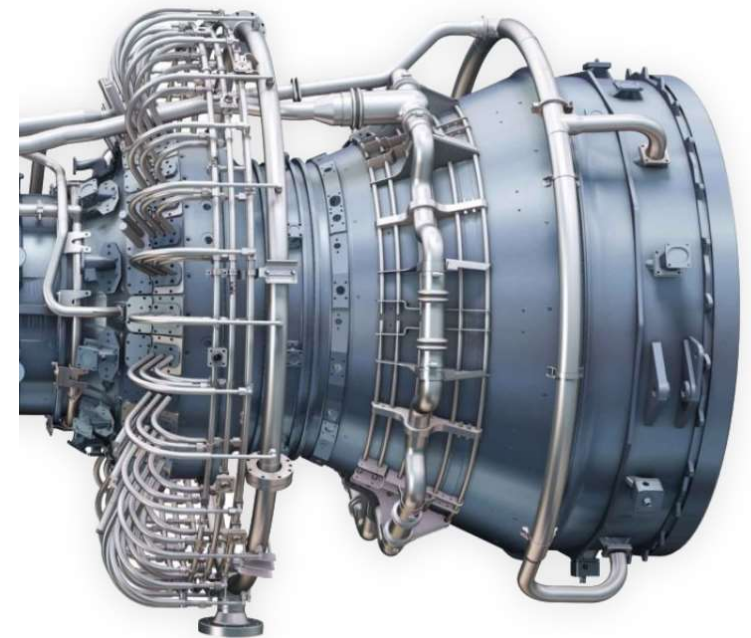
- 14 (2 MW) engines
- 4 (800 kW) engines
- Located at Goleta Sub Station
- Used during EEA 2 +
- PERP registrations for this year only
- Permits required if used next year



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DEPARTMENT OF WATER RESOURCES TURBINES

- DWR Proposal:
 - Peaker Plant
 - 2 (30 MW) GE TM2500 turbines
 - Located at ExxonMobil's Las Flores Canyon
 - Best Available Control Technology



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QUESTIONS



CONTACT INFORMATION

David Harris

Engineering Division Manager

(805) 979-8311

HarrisD@sbcapcd.org



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