ALERT

CUEA STAFF
Don Boland, Executive Director
Jenny Regino, Editor
Shelley Marston Assistant

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HEAT WAVE IN CALIFORNIA

With a warming trend moving through California, the California Governor's Office of Emergency Services (Cal OES) would like you to follow a few important steps to keep yourself, your loved ones, neighbors and pets comfortable and safe during a heat event.

DURING A HEAT EVENT

Avoid strenuous activity and direct exposure to the sun during the hottest parts of the day, specifically from 12 – 6 p.m.

- Stay hydrated and don't wait until you're thirsty to drink water.
- Protect your skin using sunscreen with SPF 30 or above.
- Wear lightweight, loose-fitting clothing.
- Ensure your pets have plenty of cool, fresh water.
- NEVER leave children or pets in the car. Even when temperatures outside are mild, the temperature inside the car can reach 100 degrees in less than 10 minutes.

If you do not have access to air conditioning, find a public cooling center near you. Cooling centers in your county can be found here.

HEAT RELATED ILLNESS

Extreme heat poses a substantial health risk, especially for vulnerable populations. **It's important to understand the warning signs of heat-related illness. Symptoms include:**

- **Heavy sweating**
- **Muscle cramps**

- **Weakness**
- **Headache**
- **Nausea**

Vomiting, paleness, tiredness and dizziness can also be indicators of heat-related illness. To help prevent heat-related illness, be sure to use cool compresses, misting, showers and baths. Get medical attention if you experience a rapid, strong pulse, you feel delirious or have a body temperature above 102 degrees.

PACIFIC GAS AND ELECTRIC COMPANY

Our system has never been safer, and we continue to make it safer every day. We're prepared with multiple layers of protection and innovative new technologies to mitigate catastrophic wildfires in our hometowns. We want a future where our customers don't have to choose between safety and reliability—we want both and we are working every day to make that possible," said Sumeet Singh, PG&E executive vice president and chief operating officer.

Several innovations and collaborations were on display today at two PG&E facilities – the San Ramon Valley Conference Center and PG&E's Applied Technology Services Center, the company's hub of research, development, and innovation. The selected technologies included:

- **Neither Overhead Nor Underground:** With novel Ground-Level Distribution Systems (GLDS), powerlines are neither suspended from utility poles nor buried underground. Instead, lines are placed inside protected and resilient conduits that rest on the ground. PG&E is exploring moving overhead powerlines to ground level to eliminate ignition risk and enhance grid resilience. PG&E anticipates this innovative approach could provide comparable risk reduction to undergrounding.

Fighting Fire with "Good" Fire: South San Francisco-based Burnbot offers a remotely operated, controlled-burn technology to manage landscapes and burn woody materials onsite to reduce environmental and safety issues associated with controlled burns. PG&E is testing Burnbot as an alternative to traditional land management techniques (such as using herbicides or mowers) around its facilities to clear vegetation and to explore the potential environmental and safety benefits and determine opportunities to scale.

Next-Gen Drones: Automated and beyond visual line-of-sight drone operations in collaboration with San Mateo-based Skydio are helping to determine how these tools can augment today's manually operated drone asset inspections and provide a fast, safe, and effective solution for field-validating a range of sensor alerts.

Remote microgrids for local resiliency: To enhance local resilience and eliminate fire risk, PG&E recently deployed three new remote grid systems in Tehama and Mariposa counties with several more anticipated for deployment in 2023 and up to 30 to be deployed by 2026 in collaboration with Richmond, Calif.-based NewSunRoad. Locally sited solar, batteries and back-up generators provide the same or better level of electric service reliability while serving as a permanent alternative to poles and powerlines.

PACIFIC GAS AND ELECTRIC COMPANY

First-of-its-Kind Easy-Connect Backup Power: PG&E has successfully developed a first-of-its-kind personal backup power transfer meter device for customers that fully integrates into PG&E's existing electric SmartMeter system. The device provides customers with a safe, easy to use and more reliable solution for interconnecting backup power sources, such as portable generators, batteries, and qualified electric vehicles, to power essential devices and appliances during a power outage. PG&E has installed more than 1,500 backup power transfer meters for customers in high-fire risk areas since 2022 and plans to install thousands more through 2025. PG&E demonstrated using the on-board generator of an all-electric Ford F-150 Lightning to power devices through the backup power transfer meter.

Detecting a Fault, Cutting Off Power: PG&E's Enhanced Powerline Safety Settings, which shut power off in one-tenth of a second or less when contact with a foreign object or a fault occurs on a powerline, reduced ignitions by 68% last year in High Fire-Risk Areas. Watch a similar version of the demonstration performed today: PG&E Engineers Use Laboratory to Stress TestEPSS Technology - PGE Currents. Building upon the operational mitigations of EPSS, PG&E is also deploying additional layers of operational mitigations including new downed conductor and partial voltage detection technology to detect potential threats to the electric grid and rapidly reduce or shut off power to help mitigate wildfire ignitions.

- **Downed Conductor Detection** (DCD) technology improves PG&E's ability to detect and isolate high impedance faults—lower-current fault conditions that may not reliably be mitigated by EPSS—before an ignition can occur. PG&E is engineering, programming and installing the DCD algorithm on equipment in high fire-risk areas.

- **Partial Voltage Detection** capabilities utilize SmartMeters to alert PG&E's Control Center when voltage conditions that could present an increased ignition risk are detected. This technology helps PG&E detect and locate wire-down conditions for lower-current fault conditions—which may not reliably be mitigated by EPSS—within minutes so the line can be remotely de-energized from the Control Center for faster mitigation and to reduce the amount of time a line is energized while down.

A Moon Shot for Wildfire Detection: Detect and suppress a high-risk wildfire in 10 minutes or less. Pinpoint all fire ignitions across multiple states or countries from space in 60 seconds. These are the challenges for innovators of XPRIZE Wildfire , a four-year, $11 million competition aimed at developing innovative technologies to improve the detection and suppression of destructive wildfires. As co-title sponsor, PG&E believes the competition can be a game changer.

SAN DIEGO GAS & ELECTRIC

SDG&E Prepares for Summer Heat & High Energy Demand

07/14/2023

Our region is well-positioned to meet customer demand thanks to new energy storage projects coming online and a mix of locally generated and imported electricity .

Leading up to summer, several teams across our company have been busy preparing to help ensure the electric grid can reliably meet rising electricity demand in hot summer months, as more people turn on their air conditioners to stay cool. Every year, SDG&E plans for the summer by investing in infrastructure improvements and energy conservation incentive programs to enhance the reliability and resiliency of our electric system.

From an electric supply perspective, our region is well-positioned to meet summer demand with a mix of locally generated and imported electricity.

SAN DIEGO GAS & ELECTRIC

Since the summer of 2020, SDG&E has brought more than 530 MW of new capacity online, including almost 500 MWs of energy storage. This includes the recently completed Westside Canal Project (131MW) in Imperial Valley and the Fallbrook Project (40MW) in North San Diego County. These facilities are respectively the largest and second largest battery systems owned and operated by SDG&E.

Together, they can power almost 130,000 homes for four hours. SDG&E's energy storage portfolio is expected to reach 345 MW of power capacity by the end of the year, sufficient to meet over 15% of our customers' load on a typical day and 7% on a system peak day. These energy storage assets participate in the energy markets managed by the California Independent System Operator (CAISO), allowing CAISO to store and dispatch clean energy from the facilities to meet electricity demand as needed. Meanwhile, we continue to implement energy conservation incentive programs and are helping to augment the CAISO Flex Alert awareness efforts to prepare our region for the summer.

Interconnected Grid

While SDG&E continues to prepare for summer weather, it is important to understand that California's electric transmission system is interconnected statewide and with other Western states. What happens elsewhere in California or elsewhere in the West can impact electric service in San Diego and vice versa. Because of the interdependency of California's electric grid, energy providers and consumers across the state have all been asked to do their part to help when the grid is taxed. SDG&E has been working closely with state agencies, including the CPUC and the CAISO, to address potential resource shortages.

Power Saver Rewards Program

Should the grid become strained due to high demand, we have a variety of conservation incentive programs to encourage customers to reduce their energy use during the peak demand hours of 4-9 p.m. For the second year in a row, the Power Saver Rewards Program will be in effect through October, providing residential customers with the opportunity to be compensated for cutting back on their energy use during times of grid stress. When CAISO calls a Flex Alert or Energy Emergency Alert Watch, Power Saver Rewards and other demand response programs are activated. If participating customers can reduce their energy use below their typical use when a Power Saver Rewards day is called, when the grid is especially stressed, customers will receive a bill credit of $2.00/kWh on their next energy bill that includes the date that the event took place.

To learn more about Power Saver Rewards and enroll in the program, please visit sdge.com/powersaver.

State Energy Outlook is Positive

According to CAISO, forecasted energy supply conditions for this summer represent an improvement from last year, largely because more than 8,000 MW of combined solar and battery capacity will be added to the grid by September 2023. Additionally, with record precipitation this last winter, the state can expect a significant megawatt boost from hydro power plants.

SAN DIEGO GAS & ELECTRIC

We will continue to remain closely coordinated with CAISO to keep our customers prepared and informed. Preparedness is a community-wide effort, so be sure to update your contact information and add your mobile phone number to your SDG&E account, via SDGE.com/MyAccount so we can get in touch in case of any grid emergencies. Tips on how to stay cool while keeping energy costs down are available at sdge.com/myenergy. This dedicated webpage also provides tools for managing energy use and avoiding surprise bills.

What to Expect From Wildfire Season in California This Year

Predictions for the 2023 Wildfire Season by Region

As the 2023 wildfire season approaches, businesses across the United States must prepare for any potential danger that may arise due to an increase in temperatures and dry fuel sources.

Southwest

In particular, the Southwest region is expecting a particularly vulnerable season as drought conditions worsen and vegetation becomes highly combustible. Businesses can take precautionary measures such as creating defensible space around their buildings and removing dead plant material from their property.

Southeast

The Southeast region is also prone to increased fire activity as warmer-than-usual temperatures combined with ongoing drought conditions could spark lightning-caused fires or human-caused blazes due to careless outdoor activities. Business owners should stay informed on local fire danger levels and any burn bans that may in place before conducting any potentially hazardous activities.

What to Expect From Wildfire Season in California This Year

Pacific Northwest

Meanwhile, the Pacific Northwest is expected to experience moderate fire activity throughout the 2023 season thanks to a weather system bringing cooler temperatures along with higher humidity levels accompanied by normal precipitation totals. Despite this, hot spots within certain areas could still exist due to dryness year-round, so companies should take proactive steps such as clearing dead vegetation from near buildings or installing sprinkler systems.

Overall, it's essential for businesses operating within high-risk areas for wildfires to remain informed of current fire danger levels, weather forecasts and drought conditions throughout the wildfire season so they can adequately prepare for whatever lies ahead during what appears will be an unpredictable 2023 wildfire season. By taking protective precautions now like setting up defensible spaces or investing in sprinkler systems businesses can help safeguard themselves against any potential threat posed by rapidly spreading fires fueled by windy conditions or extreme heat and low humidity levels.

ALERT

REPRESENTING:
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WATER/WASTEWATER

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BOARD MEMBERS ONLY
NEXT BOARD OF DIRECTORS MEETING

SEPTEMBER 13, 2023

10:00 AM TO 3:00PM

SOUTHERN CALIFORNIA EDISON

6090 IRWINDALE AVE

IRWINDALE, CA 91702

CUEA WELCOMED NEW MEMBERS:

PLACER COUNTY WATER AGENCY
&
RESORT IMPROVEMENT DISTRICT