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The State is investing in non-lithium ion battery facilities

Note the picture too! The State is giving grants to non-lithium battery projects. This is the best idea and this project is isolated and does not endanger nearby communities.

The Compass project would allow substitutes to Lithium Iron Phosphate batteries and expose the communities to Lithium Ion batteries or worse.

We implore you to deny this permit right now and any future permits for Lithium battery Facilities in this ravine. Please put an area on your website that informs developers that no battery facilities will be allowed in this ravine. You can add other locations. They need to go to areas that do not threaten communities or protected wildlife. You will save the Commission so much time and the developers a lot of money. Thank you!

Additional submitted attachment is included below.



CALIFORNIA ENERGY COMMISSION



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CEC Awards \$30 Million to 100-Hour, Long-Duration Energy Storage Project

For Immediate Release: December 13, 2023

SACRAMENTO — The California Energy Commission (CEC) today approved a \$30 million grant to Form Energy to build a long-duration energy storage project that will continuously discharge to the grid for an unprecedented 100 hours.

The 5 megawatt (MW) / 500 megawatt-hour iron-air battery storage project is the largest long-duration energy storage project to be built in California and the first in the state to use the lower-cost

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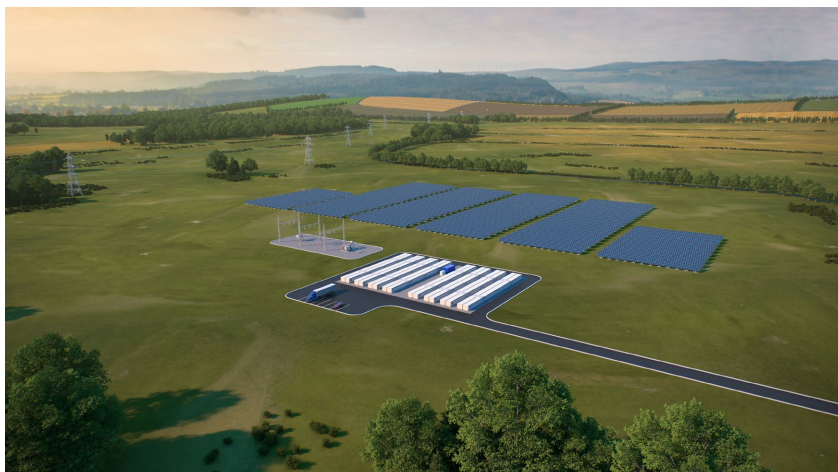
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technology. It will be built at a Pacific Gas and Electric Company substation in Mendocino County and provide power to area residents. It is expected to begin operation by the end of 2025 to help support grid reliability and demonstrate solutions needed to meet the state’s climate and clean energy goals.



The CEC approved funding to build a long-duration energy storage project today similar to the one shown above. Source: Form Energy.

“A multiday battery system is transformational for California’s energy mix,” [CEC Chair David Hochschild](#) said. “This project will enhance our ability to harness excess renewables during nonpeak hours for use during peak demand, especially as we work toward a goal of 100 percent clean electricity.”

The award is one of three approved under the CEC’s [Long-Duration Energy Storage program](#), which is part of Governor Gavin Newsom’s historic multi-billion-dollar commitment to combat climate change. The program invests in demonstration of non-lithium-ion technologies across the state to create a diverse portfolio of energy storage

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technologies.

As of August, California had [6,600 MW of battery storage](#) in use throughout the state operating at the current industry standard of 4 to 6 hours of discharge. By year-end, the number is projected to increase to 8,600 MW. Longer-duration storage, from 8 to 100 hours, can help the state transition away from fossil fuels and strengthen grid reliability. The state estimates more than 48 gigawatts (GW) of battery storage and 4 GW of long-duration storage will be needed to meet the goal of 100 percent clean electricity by 2045.

Energy storage is key to California's clean energy future because it provides a way to capture and store excess power generated by renewable resources. The state's battery fleet is a critical bridge in summer when electricity demand is highest in the early evening hours as solar resources drop off but before wind resources pick up later in the evening.

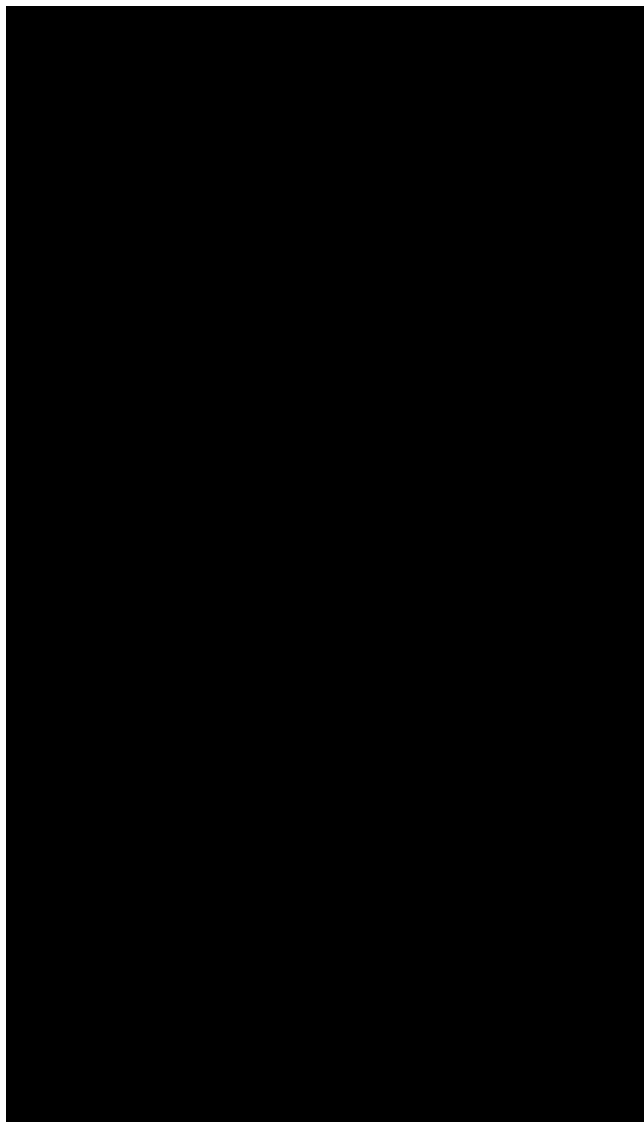
Iron-air battery technology uses the principle of reversible rusting. The battery cells contain iron and air electrodes and are filled with a water-based, nonflammable electrolyte solution. While discharging, the battery absorbs oxygen from the air and converts iron metal to rust. While charging, the application of an electrical current converts the rust back to iron and the battery emits oxygen. The technology has lower costs compared to lithium-ion battery production.

Other awards approved under the Long-Duration Energy Storage Program include:

- \$31 million for a 60 MW renewable backup power microgrid in San Diego County.
- \$32 million for a 20 MW microgrid project in Tehama County.

The grants are two of the largest the state has ever awarded to benefit California Native American tribes.

[Watch the YouTube shorts video.](#)



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About the California Energy Commission

The California Energy Commission is leading the state to a 100 percent clean energy future. It has seven core responsibilities: developing renewable energy, transforming transportation, increasing energy efficiency, investing in energy innovation, advancing state energy policy, certifying thermal power plants, and preparing for energy emergencies.

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