



MODERNIZATION SOLAR

# Kapolei Energy Storage Project





## Overview

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What is the Kapolei energy storage project?

The Kapolei Energy Storage project is a utility-scale battery farm with a storage capacity of 565 megawatt-hours of electricity, making it the largest storage project in Hawai'i. It officially went online before the holidays after several delays.

Does Oahu have a battery energy storage system?

A 185 MW/565 MWh battery energy storage system (BESS) recently started operating in Oahu, Hawaii, providing balancing services to support the island's growing share of solar generation.

What is the largest energy storage project in San Francisco?

The Kapolei Energy Storage facility in Hawai'i is the largest storage project in the state, with a storage capacity of 565 megawatt-hours of electricity. It is under construction in 2022. The project's developer, San Francisco-based Plus Power, believes it is the first time a battery has been used by a major utility to balance the grid.

Will a storage battery help Hawaiian Electric deal with over-generation?

A storage battery project has not yet proven its effectiveness at scale, according to Bob Rudd, the chief commercial officer at Plus Power. The battery's capacity will help address the issue of clean energy curtailment, also known as over-generation, for Hawaiian Electric, Rudd said.



## Kapolei Energy Storage Project



### [Large battery energy storage system now ...](#)

The 185 MW Kapolei Energy Storage project will help Oahu comply with Hawaii's requirements to shift from fossil fuels to 100% renewable energy  
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## Kapolei Energy Storage

Kapolei Energy Storage (KES) is ideally located on roughly eight acres of land in Kapolei on the island of Oahu, where it interconnects at a critical Hawaiian Electric substation. The 185 MW / ...



### [Kapolei Energy Storage: Powering Hawaii's ...](#)

Jan 19, 2024 · Explore Hawaii's clean energy future with the Kapolei Energy Storage (KES) facility--innovative and resilient, reducing bills and ...

## Hawaii's Oahu blazes trail with 185 MW advanced clean energy storage

Jan 13, 2024 · Learn about the Kapolei Energy Storage plant, the world's most advanced battery energy storage system. Read how this innovative project accelerates Hawaii's shift to 100% ...



### [World's most advanced battery energy storage system ...](#)

Jan 11, 2024 · Plus Power's Kapolei Energy Storage plant balances Oahu's power grid, enabling more renewable energy in Hawaii. THE WOODLANDS, Texas, Jan. 11, 2024 /PRNewswire/

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### [Hawai'i's largest energy storage project now ...](#)

Jan 9, 2024 · The Kapolei Energy Storage facility on Oahu is officially online. After several delays, the utility-scale battery farm kicked off commercial operations shortly before the ...



## Large battery energy storage system now operating in Hawaii

The 185 MW Kapolei Energy Storage project will help Oahu comply with Hawaii's requirements to shift from fossil fuels to 100% renewable energy sources by 2045.



## Hawaii's Oahu blazes trail with 185 MW

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Jan 13, 2024 · Learn about the Kapolei Energy Storage plant, the world's most advanced battery energy storage system. Read how this innovative

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## Kapolei Energy Storage: Powering Hawaii's Future Sustainably

Jan 19, 2024 · Explore Hawaii's clean energy future with the Kapolei Energy Storage (KES) facility--innovative and resilient, reducing bills and phasing out fossil fuels for sustainable living.



## [Kapolei Energy Storage: A State-of-the-Art ...](#)

Apr 15, 2025 · The Kapolei Energy Storage project offers numerous benefits that influence both environmental sustainability and economic

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## [Kapolei Energy Storage: A State-of-the-Art Facility](#)

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Jan 29, 2024 · Stakeholders behind the Kapolei Energy Storage (KES) project call it the world's most advanced BESS, featuring 158 shipping ...



## [Hawaii Installs Tesla Battery Storage for Critical Grid Support](#)

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## World's most advanced battery energy

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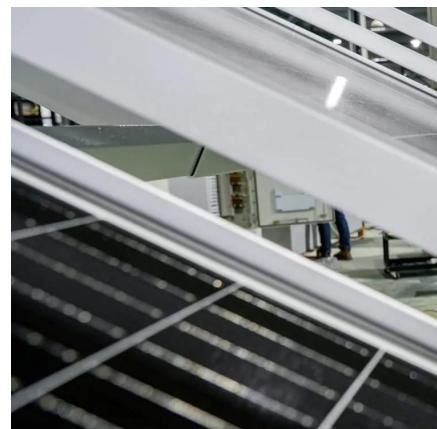
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## World's Most Advanced Battery Energy Storage System ...

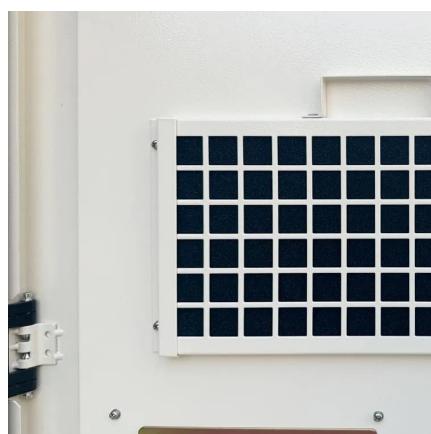
Jan 18, 2024 · Discover the groundbreaking Kapolei Energy Storage facility in Hawaii, the world's most advanced grid-scale battery energy storage system.



## World's Most Advanced Battery Energy

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Jan 18, 2024 · Discover the groundbreaking Kapolei Energy Storage facility in Hawaii, the world's most advanced grid-scale battery energy storage ...



## **GFM Landscape**

The Kapolei GFM Energy Storage System (KES) (Hawaii, U.S.) The following is a short summary of performance of the Kapolei Energy Storage (KES) facility in Hawaii in response to two grid ...



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