

SolarTech Power Solutions

Columbia Power Emergency Energy Storage



Overview

What is the Columbia Energy Storage Project?

Utilizing cutting-edge technology designed by Energy Dome, the Columbia Energy Storage Project will boost grid stability, improve resilience and deliver enough electricity to power approximately 18,000 Wisconsin homes for 10 hours on a single charge.

What is Alliant Energy's Columbia Energy Storage Project?

Alliant Energy's revolutionary Columbia Energy Storage Project, using Energy Dome's safe, reliable CO₂ battery, represents a significant advancement in energy storage while bolstering the power grid to benefit Wisconsin customers.

How do energy storage systems work?

Then, when the stored energy is needed, the system converts the liquid CO₂ back to a gas, which powers a turbine to create electricity. The energy storage system will be built south of Portage, Wisconsin in the town of Pacific and near Alliant Energy's existing Columbia Energy Center.

Will Wisconsin build the first long-duration energy storage system?

MADISON, Wis. (July 18, 2025) – Plans to construct the first long-duration energy storage system of its kind in the United States are advancing following approval from the Public Service Commission of Wisconsin (PSC).

Where will a new energy storage system be built?

The energy storage system will be built south of Portage, Wisconsin in the town of Pacific and near Alliant Energy's existing Columbia Energy Center. Construction is expected to begin in 2026 and be completed by the end of 2027.

When will Alliant Energy add energy storage capacity?

Construction is expected to begin in 2026 and be completed by the end of 2027. The addition of energy storage capacity is part of Alliant Energy's Energy Blueprint, the company's long-term plan to expand generation capacity with a balanced mix of energy resources.

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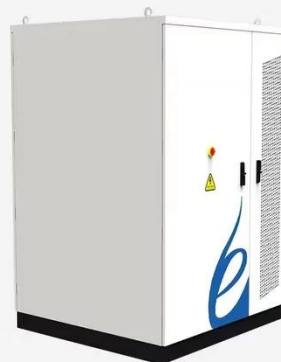


Colombia's Energy Storage Boom: Powering the Future with ...

Why Colombia's Energy Storage Companies Are Stealing the Spotlight
Let's face it - when you think about renewable energy hotspots, Colombia might not be the first country that springs to ...

PSC approves Alliant Energy's Columbia Energy Storage Project

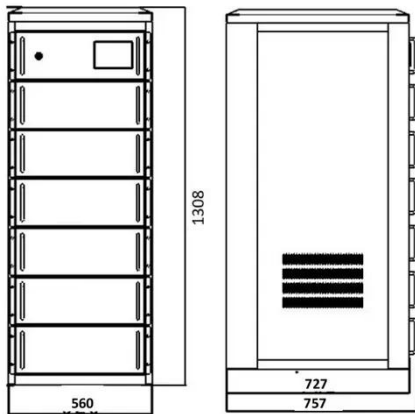
Jul 18, 2025 · Alliant Energy's Columbia Energy Storage Project will advance energy storage while bolstering the power grid to benefit Wisconsin residents. Plans to construct the first long ...



Columbia Power & Water Systems

3 days ago · Columbia Power & Water Systems is a public utility proudly serving the citizens of Columbia and Maury County since 1939. CPWS offers

power, water, and broadband services.



Alliant Energy seeks OK for Columbia Energy Storage Project

Aug 20, 2024 · An Energy Dome proposed for Columbia would be the first of its kind in the United States and could deliver up to 10 hours of stored energy and power nearly 20,000 ...



Emergency Backup Power for Homes: Smarter, Cleaner ...



Jul 15, 2025 · Section 4: How RESS Works as an Emergency Power Solution A Residential Energy Storage System typically includes: Lithium battery modules (stackable or wall ...

Alliant Energy:

Revolutionary energy storage project surges ...

Aug 14, 2024 · About Energy Dome
Energy Dome is revolutionizing energy storage and enabling grid decarbonization by making solar and wind power dispatchable 24/7. The company ...



CX-033516: Columbia Energy Storage Project - Phase 1

Jun 18, 2024 · DOE's Office of Clean Energy Demonstrations (OCED) is proposing to provide funding to Alliant in support of the Columbia Energy Storage Project. The proposed activities ...

New Energy Storage Project Proposed

Nov 26, 2024 · The facility would help enable ongoing clean energy transition. In August, an application for State regulatory approval was filed for the Columbia Energy Storage project. If ...



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