

SolarGrid Energy Solutions

Columbia Energy Storage Project



Overview

Alliant Energy plans to build the first CO₂ energy storage system in the United States. The project will be located at the Columbia Energy Center near Portage. What is the Columbia Energy Storage Project?

The Columbia Energy Storage Project will feature Energy Dome's standard-frame 20MW/200MWh CO₂ Battery, powering around 18,000 homes in Wisconsin for 10 hours on a single charge. It aims to set a benchmark for other utilities and energy providers seeking to boost their storage solutions and cut carbon emissions.

When will the 'Columbia energy storage project' be installed?

The first installation is slated for 2026. "This visionary battery system, aptly named the "Columbia Energy Storage Project," is poised to be a trailblazer in the United States, marking a pivotal stride towards a more sustainable, reliable, and cost-effective energy future," said the firm in a statement.

When will energy dome's first-of-a-kind CO₂ battery plant be completed?

In parallel, the construction of Energy Dome's first-of-a-kind standard CO₂ Battery plant in Sardinia, Italy, is also proceeding at full speed. The Sardinia plant's completion is expected by the end of Q1 2025 after reaching full notice-to-proceed at the end of 2023, representing Energy Dome's capability to deliver on a short lead time basis.

Columbia Energy Storage Project



Columbia Energy Storage Project Receives DOE Funding

Sep 27, 2023 · The Columbia Energy Storage Project will be built in Pacific, Wisconsin, near the current Columbia Energy Center. Alliant Energy expects to submit project plans to the ...

State Regulators Approve Columbia Energy ...

The innovative Columbia Energy Storage Project, a partnership between the co-owners of the Columbia Energy Center near Portage, Wis., received approval ...



Alliant Energy plans CO2 energy storage near Portage

Jul 21, 2025 · Alliant Energy plans to build the first CO2 energy storage system in the United States. The project will be located at the Columbia Energy Center near Portage. Alliant ...

Wisconsin Regulators Approve Alliant Energy's 20MW CO₂ Battery

Storage

Jul 24, 2025 · The Columbia Energy Storage Project will utilize Energy Dome's closed-loop CO₂ battery system, a novel technology that stores electricity by compressing carbon dioxide gas ...



PSC Approves Construction Plans For Columbia County Energy Storage Project

Jul 22, 2025 · (COLUMBIA COUNTY) The Public Service Commission of Wisconsin has approved plans for construction of the Columbia Energy Storage Project. It uses a CO₂ battery to bolster ...

Energy Dome Signs First U.S. Contract with ...

Oct 23, 2024 · The Columbia Energy Storage Project will feature Energy Dome's standard-frame 20MW/200MWh CO₂ Battery, powering around 18,000 homes ...



Wisconsin Regulators Approve First of its Kind Long-Duration Storage

Jul 25, 2025 · Plans to construct a first of its kind long-duration energy storage system of its kind in the United States

are advancing following approval from the Public Service Commission of ...



First of its kind 'energy dome' storage project ...

Aug 19, 2024 · A first of its kind energy storage system coming to Wisconsin took a step forward this month, almost a year after the project was announced. ...



State Regulators Approve Columbia Energy ...

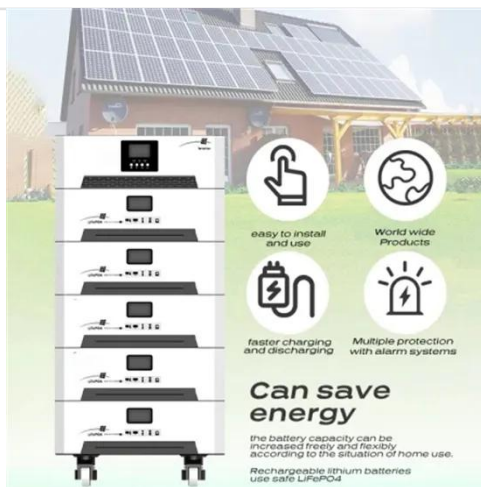


1075KWHH ESS

The project will use a revolutionary closed-loop process, designed by Energy Dome, to take energy from the grid and convert carbon dioxide (CO₂) gas ...

Columbia Energy Storage Project

The Columbia Energy Storage Project is the first long-duration energy storage project of its kind to be developed in the United States. The system's unique ...



Wisconsin will house an energy storage facility ...

Sep 25, 2023 · A first of its kind energy storage system will be coming to Wisconsin in the next few years, and could serve as a blueprint for wide-scale ...

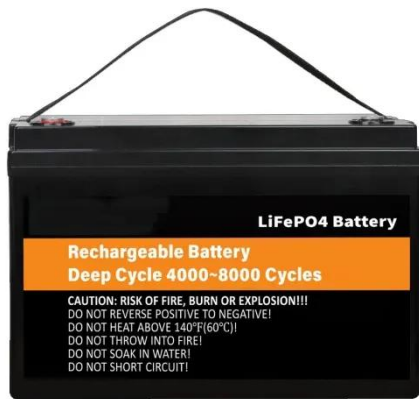
Wisconsin Utility Investors

The Columbia Energy Storage Project is the first long-duration energy storage system of its kind to be developed in the United States. The 18-megawatt project is designed to improve grid ...



Energy storage

Energy storage infrastructure is a newer part of our strategy and a key to accelerating our transition to renewable energy. With major transformations ...



Award Wednesdays , July 17, 2024

Jul 17, 2024 · Long-Duration Energy Storage (LDES) Demonstrations Program
Columbia Energy Storage Project OCED
awarded the LDES Columbia Energy ...



Wisconsin Approves Alliant's Long-Duration Energy Storage Project

Jul 21, 2025 · Alliant Energy's Columbia Energy Storage Project, the first long-duration energy storage system of its kind in the US, has been approved by the Public Service



US utility seeks approval for long-duration CO2 ...

Aug 20, 2024 · Alliant Energy said last week (14 August) that it has filed a project application with the regulatory Public Service Commission (PSC) of

Wisconsin ...



ESS



Energy Dome's CO2 Battery(TM) to Revolutionize ...

Sep 22, 2023 · The Columbia Energy Storage Project marks the genesis of a new era, where the CO2 Battery(TM) will be the cornerstone of a greener and more ...

Columbia County: Cutting-edge energy storage system ...

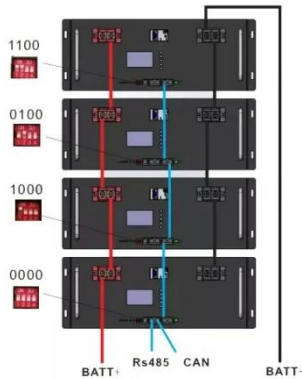
Sep 26, 2023 · Similarly, statements that describe the Columbia Energy Storage Project and our clean energy vision are forward-looking statements. These forward-looking statements are ...



Colombia's first-ever battery storage tender won ...

Jul 13, 2021 · Vertically-integrated solar PV company Canadian Solar has been awarded a 45MW / 45MWh battery storage project by Colombia's Ministry of

...



Alliant Energy seeks OK for Columbia Energy Storage Project

Aug 20, 2024 · Alliant Energy has filed an application with the state Public Service Commission seeking approval for the landmark Columbia Energy Storage Project, which 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 ...

Bill Gates-backed CO2 battery lands major deal ...

May 30, 2025 · The US Department of Energy's (DOE) Office of Clean Energy Demonstrations has awarded Alliant Energy a federal grant of up to \$30 ...



First of its kind energy project in US expected to ...

Sep 22, 2023 · Similarly, statements that describe the Columbia Energy Storage Project and our clean energy vision are forward-looking statements. These ...

Wisconsin Regulators Approve Alliant Energy's 20MW CO₂ Battery Storage

Jul 24, 2025 · Set to be constructed near the existing Columbia Energy Center in the town of Pacific, just south of Portage, Wisconsin, the project will be the first utility-scale CO₂ battery ...



Alliant Energy seeks OK for Columbia Energy Storage Project

Aug 21, 2024 · Alliant Energy has filed an application with the state Public Service Commission seeking approval for

the landmark Columbia Energy Storage Project, which the company ...



Revolutionary energy storage project surges forward

Similarly, statements that describe the Columbia Energy Storage Project and our clean energy vision are forward-looking statements. These forward-looking statements are subject to risks ...



Alliant Energy utility wants to demonstrate ...

Aug 20, 2024 · A rendering of the Columbia Energy Storage Project, a 20-MW/200-MWh energy storage system Alliant Energy and other utilities plan to ...

Wisconsin Regulators Approve First of its Kind Long-Duration Storage

Jul 25, 2025 · Alliant Energy's Columbia Energy Storage Project will use Energy Dome's CO₂ battery. The closed-loop system will take energy from the grid

and convert CO2 gas into a ...



Columbia Energy Storage Project Receives DOE ...

Sep 26, 2023 · The Columbia Energy Storage Project will be built in Pacific, Wisconsin, near the current Columbia Energy Center. Alliant Energy expects ...

Columbia Energy Storage Project To Pioneer CO2-Based ...

Sep 14, 2024 · The Columbia Energy Storage Project in Wisconsin is set to become the first U.S. initiative to deploy a carbon dioxide (CO2) battery system, marking a



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 ...



Developers plan to build a first-of-its-kind ...

Feb 12, 2024 · The Columbia Energy Storage Project is Wisconsin's largest remaining coal plant, but eventually it will transform into a more sustainable ...



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