

Columbia Power Plant Energy Storage Equipment





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.

Will Columbia energy storage project get state regulatory approval?

In August, an application for state regulatory approval was filed for the Columbia Energy Storage Project.

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.

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.

How much energy will a new energy storage system provide?



The 18-megawatt facility would be capable of providing the co-owners at least 10 hours of energy storage, enhancing reliability and dispatchability on the grid by storing energy to help meet peak demand. Pending approval, the energy storage system is expected to be operational by the end of 2027.



Columbia Power Plant Energy Storage Equipment



Used Nuclear Fuel Storage

Columbia Generating Station stores all of its used fuel assemblies on site. After spending six years in the reactor core, used fuel assemblies are stored in a deep pool adjacent to the reactor.

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WNP-2 Nuclear Power Plant

Columbia Generating Plant, formerly WNP-2, is the sole survivor of a group of 5 nuclear plants originally planned for operation in the state of Washington. Energy Northwest, a Washington ...

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Energy Northwest, BPA Advance Plan to Expand Region's Nuclear Power

About BPA The Bonneville Power Administration is a ratepayer funded federal power marketing administration that delivers reliable, low-cost hydropower produced in the ...

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PSC Approves Construction Plans For Columbia County Energy Storage

The 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. The closed ...



[Product Information](#)



PSC Approves Construction Plans For Columbia County Energy ...

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[Product Information](#)



NW's only nuclear power plant to undergo \$700M upgrade , Tri ...

BPA approves \$700 million upgrade to Energy Northwest's nuclear power plant, Columbia Generating Station, in Richland, Washington, to produce more electricity.

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[Pioneering energy storage project advances in Wisconsin](#)

Alliant Energy's revolutionary Columbia Energy Storage Project, using Energy Dome's safe, reliable CO2 battery, represents a significant advancement in energy storage ...

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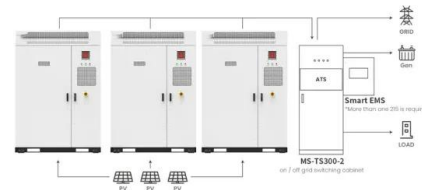




Generac Develops New Two-Panel Residential Solar Microinverter

Generac Holdings (Generac) has unveiled an 820W microinverter, which takes electricity from two solar panels and converts it from direct current (DC) power into alternating ...

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Application scenarios of energy storage battery products



Revolutionary energy storage project surges forward

The Columbia Energy Storage Project uses a new technology, designed by Energy Dome. The system's unique features will boost grid stability, improve resilience and deliver enough ...

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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 features will boost grid stability and ...

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Columbia Energy Storage Project Receives DOE Funding

Alliant Energy's new battery system, known as the Columbia Energy Storage Project, will be the first-of-its-kind in the United States. The project will deliver 10 hours of ...

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[Revolutionary energy storage project surges forward](#)

About Energy Dome Energy Dome is revolutionizing energy storage and enabling grid decarbonization by making solar and wind power dispatchable 24/7. The company invented ...

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Developers plan to build a first-of-its-kind energy storage system ...

In addition to being first in the U.S., the Columbia Energy Storage Project will be the largest compressed carbon dioxide long-duration energy storage system in the world.

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[Spring refueling begins at Columbia Generating Station](#)

Richland, Wash. - Yesterday evening, Energy Northwest operators successfully disconnected Columbia Generating Station from the Northwest power grid, commencing its ...

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[Central Energy Plant . Design and Construction](#)

The plant includes energy efficient dual-fuel boilers, chillers, and piping distribution under city streets, as well as energy-efficient mechanical and electrical equipment under W. 130th Street ...

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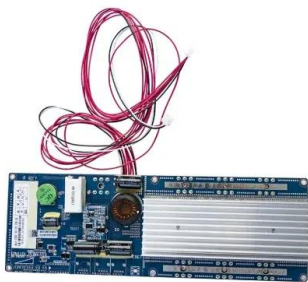




[Alliant Energy's Columbia Energy Storage Proje](#)

Project information lability of existing electric grid infrastructure. The project, part of a multiphase site redevelopment efort, will increase energy reliability and resilie ce while delivering ...

[Product Information](#)



Energy Storage Systems

Energy storage systems help to improve power quality by reducing voltage fluctuations, flicker, and harmonics, which can be caused by intermittent renewable generating or varying loads. ...

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