



Columbia Power Emergency Energy Storage





Overview

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Alliant Energy hopes to bring the project online in 2027, estimates it will store enough power for 18K homes over 10 hours. This rendering shows what the Columbia Energy Storage Project, called an “energy dome,” could look like. Officials hope to bring the site online by 2027. Photo courtesy of.

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 compressed liquid form for long-term storage. Then, when the stored energy is needed, the system converts the liquid CO2 back to a.

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 stability and deliver enough electricity to power approximately 18,000 homes for 10 hours on a single charge.

The state of Wisconsin is increasingly making its presence felt on the U.S. energy landscape. The Public Service Commission (PSC) has just approved the Columbia Energy Storage project—the nation's first industrial-scale deployment of an innovative energy storage technology using carbon dioxide. The.

Alliant Energy receives approval from the Public Service Commission of Wisconsin



to build the Columbia Energy Storage Project with Energy Dome. 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.



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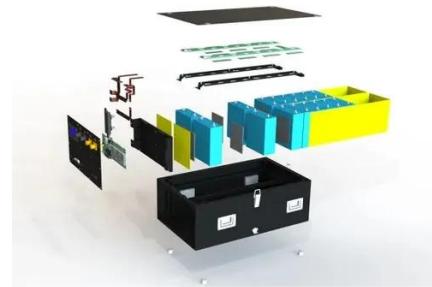
[Pioneering energy storage project advances in ...](#)



Utilizing cutting-edge technology designed by Energy Dome, the Columbia Energy Storage Project will boost grid stability, improve ...

First of its kind 'energy dome' storage project takes another step

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. Alliant Energy filed an application ...



Alliant Energy

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The first industrial-scale energy storage facility in the U.S. based ...

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

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Wisconsin Regulators Approve First of its Kind Long-Duration Storage

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Alliant Energy advances CO2-based long-duration storage project



Utility company Alliant Energy has received approval from the Wisconsin Public Service Commission (PSC) to advance its Columbia energy storage project, which will use ...



PSC approves Alliant Energy's Columbia Energy Storage Project

Utilizing new technology designed by Energy Dome, the Columbia Energy Storage Project will boost grid stability, improve resilience and deliver enough electricity to power ...

[**PSC approves Alliant Energy's Columbia Energy ...**](#)

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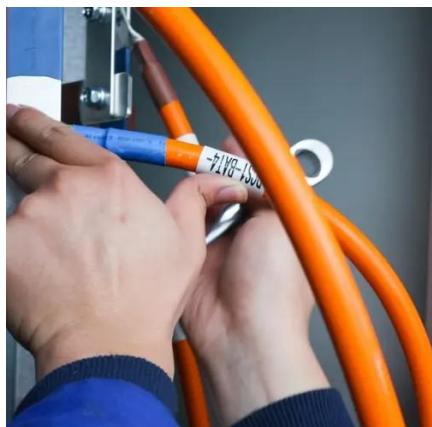


[**Alliant Energy advances CO2-based long-duration**](#)

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Utility company Alliant Energy has received approval from the Wisconsin Public Service Commission (PSC) to advance its Columbia ...



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

The Public Service Commission of Wisconsin (PSC) has granted final approval for Alliant Energy's Columbia Energy Storage Project, marking a significant milestone in the ...

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

The Columbia Energy Storage Project is poised to provide enough electricity to power approximately 18,000 Wisconsin homes for 10 hours on a single charge, enhancing grid ...



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