



# Columbia Power Plant Energy Storage Equipment

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 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.

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 Commission of Wisconsin ...

The Columbia Energy Storage Project will use compressed carbon dioxide to store energy over a full 10-hour discharge period--enough to power around 18,000 homes in that time. The ...

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 ...

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 ...

The Columbia Energy Storage Project would utilize an innovative design by Energy Dome to deliver 10 hours of energy storage capacity by compressing carbon dioxide (CO2) gas into ...

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 significant step in the evolution ...

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



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The Columbia Energy Storage Project is Wisconsin's largest remaining coal plant, but eventually it will transform into a more sustainable battery storage system.

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 into a liquid. ...

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 deliver ...

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