



# Foreign energy storage system demonstration projects

What is a long-duration energy storage demonstration program?

Long-Duration Energy Storage Demonstrations Program: These projects will help effectively demonstrate the commercial viability of innovative LDES technologies and facilitate wider commercial adoption.

What happened at China's first national demonstration project?

At 10:00 AM, the plant was successfully connected to the grid and operated stably, marking the completion of the construction of the first national demonstration project of compressed air energy storage in China in accordance with the commercial power station standards.

What are demonstration projects?

The demonstration projects are of a comprehensive and representative type. Projects cover generation-side (both renewable energy generation and conventional thermal generation), grid-side, and behind-the-meter applications, while technologies include electrochemical, physical, and thermal storage.

How much did DOE invest in Energy Storage Research & Development?

Between FY17 and FY20, DOE invested over \$1.6 billion into energy storage research and development (R&D) - mostly focused on EV battery and hydrogen storage - across various technology offices. However, these investments were made based on specific goals and targets made by individual technology offices and not based on a department wide strategy.

Where is Alliant Energy demonstrating a CO<sub>2</sub> long-duration energy storage system?

Locations: Pacific, WI  
Project Summary: Through the Columbia Energy Storage project, Alliant Energy plans to demonstrate a compressed carbon dioxide (CO<sub>2</sub>) long-duration energy storage (LDES) system at the soon-to-be retired coal-fired Columbia Energy Center power station in Pacific, Wisconsin.

How many LDES demonstration projects are eligible for federal funding?

LDES Demonstration Project Overview   Anticipated Funding and Award Details   Under this FOA, DOE envisions selecting up to eleven (11) LDES Demonstration Projects for a combined total of \$349 million in federal funding, subject to the number, quality, and funding needs of applications received.

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