

JH Solar

Increase in the energy storage demonstration project



Overview

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The U.S. Department of Energy (DOE) today announced up to \$325 million for 15 projects across 17 states and one tribal nation to accelerate the development of long-duration energy storage (LDES) technologies. Funded by President Biden's Bipartisan Infrastructure Law, these demonstration projects.

Today, the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED) issued a Notice of Intent (NOI) for up to \$100 million to fund pilot-scale energy storage demonstration projects. Today, the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED).

a key pillar of Bidenomics, the U.S. Department of Energy (DOE) today announced up to \$325 million for 15 projects across 17 states and one tribal nation to accelerate the development of long-duration energy storage (LDES) technologies. Funded by President Biden's Bipartisan Infrastructure Law.

Long-duration energy storage (LDES) projects in the US will be able to compete for a share of "nearly US\$350 million" of government funding. The funding, unlocked by the passing of the Bipartisan Infrastructure Law in late 2021, will be administered by the US\$20 billion US Department of Energy.

Department of Energy funding for 15 projects will help advance energy storage technologies, enhance clean energy adoption, and reduce impacts on the grid from climate change-fueled extreme weather events. File image of cabinets containing lithium-ion batteries inside the AES Alamosa Battery

Energy.

This memo provides recommendations for implementing energy storage demonstration programs within the U.S. Department of Energy (DOE). Energy storage is a promising suite of technologies to reduce emissions and modernize the U.S. electric grid. Advanced energy storage technologies strengthen grid. Why is Doe launching a long duration storage shot?

Today's announcement will help DOE realize its Long Duration Storage Shot goal of reducing the cost of LDES by 90 percent by 2030 and supports the Biden-Harris Administration's efforts to advance critical clean energy technologies, expand the adoption of renewable energy resources, and strengthen America's energy security.

What is the LDEs demonstrations program?

The LDES Demonstrations Program, managed by DOE's Office of Clean Energy Demonstrations (OCED), funds a range of different technology types intended to overcome technical and institutional barriers to full-scale deployment of LDES systems in diverse geographies and climates.

Why is the demand for clean and reliable electricity increasing?

The demand for clean, reliable electricity in the U.S. continues to increase, primarily driven by demand sectors like residential and commercial buildings, industry, and transportation, and the growth of data centers for information processing needs.

Increase in the energy storage demonstration project



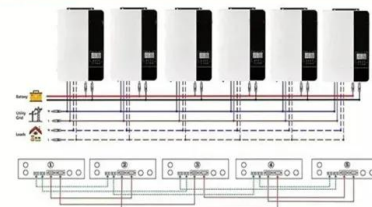
DOE Releases \$350 Million for Energy Storage ...

The U.S. Department of Energy (DOE) has released nearly \$350 million for emerging long-duration energy storage (LDES) demonstration projects capable of delivering electricity for 10 to 24 hours ...

THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS

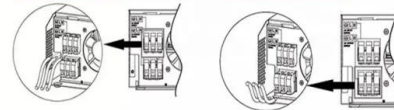
Welcome & Meeting Objectives Share information regarding the DOE Office of Clean Energy Demonstrations (OCED) Long-Duration Energy Storage (LDES) demonstration selections and ...

Parallel (Parallel operation up to 6 unit (only with battery connected))



AC input wires

AC output wires



US government launches US\$350 million long

However, as with other clean energy efforts, long-duration energy storage market seeding activity has stepped up since Joe Biden took office, with the DOE funding a new US\$75 million centre for LDES ...

Sandia's Energy Storage Demonstration Projects Team

...

Support communities, state energy offices, utilities, academia, and the overall ES industry to

demonstrate and validate the use of resilient and secure energy storage systems on and off ...



Technology Strategy Assessment

Mining/Metallurgy, scaling and managing the energy storage system, demonstration projects, and novel active electrolytes require significant investment in industrial ...



Office of Clean Energy Demonstrations

OCED is a multi-technology office with demonstrations that include clean hydrogen, carbon management, advanced nuclear reactors, long-duration energy storage, industrial demonstrations, demonstrations in rural areas ...



U.S. Department of Energy Announces \$27 Million To Advance Energy

The Energy Storage Demonstration and Validation FOA is expected to make up to \$12 million available for cost-shared research, development, and demonstration projects to ...

New energy-storage industry powers up China's green development

The new energy storage has been applied in power systems with strong production capacity. China's first megawatt iron-chromium flow battery energy-storage ...



DOE Releases \$350 Million for Energy Storage Demonstration Projects

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DOE Releases \$350 Million for Energy Storage ...

Cheaper, longer duration energy storage can increase community involvement in local power systems, build resilience for communities, and minimize power grid disruptions.



US DOE Invests \$325M for Long-Duration Energy ...

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OCED Issues Notice of Intent for up to \$100

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US DOE Invests \$325M for Long-Duration Energy Storage Projects

The US Department of Energy (DOE) has announced up to \$325 million for 15 projects across 17 states and one tribal nation to accelerate the development of long-duration ...

China's Largest Wind Power Energy Storage Project Approved ...

This project is currently the largest combined wind power and energy storage project in China. The Inland Plain Wind Farm Project in Mengcheng County is owned by the ...



OCED Announces \$1.3 Billion in New Funding to ...

The U.S. Department of Energy (DOE) Office of Clean Energy Demonstrations (OCED) today opened applications for up to \$1.3 billion in funding to catalyze investments in transformative carbon capture, ...

THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS

We at DOE wanted to connect to help clarify our process and the opportunities to plug in and help shape your community's energy future Engage with DOE and the commercial partners involved

...



DOE Announces \$350 Million For Long-Duration ...

"DOE is taking huge steps to lower the cost and increase the duration of energy storage technologies so that clean, reliable, affordable electricity is available whenever and wherever to everyone, especially ...

Anhui Province: Construction of the First 100-megawatt ...

The Jinzhai Energy Storage Demonstration Project is the first large-scale energy storage project jointly invested by Shanghai Electric Group, State Grid Comprehensive ...



2020 China Energy Storage Policy Review: ...

Under the direction of the national "Guiding Opinions on Promoting Energy Storage Technology and Industry Development" policy, the development of energy storage in China over the past five years has ...

Funding and Incentives Resource Hub , Better ...

Looking to implement energy efficiency upgrades, renewable energy projects, or other initiatives? The Funding and Incentives Resource Hub can help you navigate and discover the many rebates, funding opportunities, and other ...



World's first 300 MW compressed air energy storage plant fully ...

The world's first 300-megawatt compressed air energy storage (CAES) demonstration project, "Nengchu-1," has achieved full capacity grid connection and begun ...

Analytics for Energy Storage Demonstration Projects

Financial Viability Scenarios: Based on assumptions regarding energy prices and project costs, determine scenarios for the financial viability of the project, including requirements for grants, ...



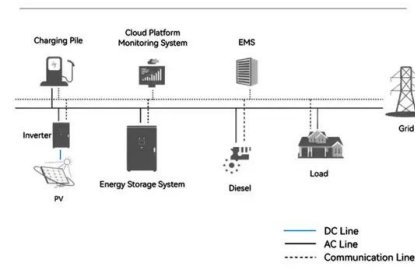
Long Duration Energy Storage for Everyone, Everywhere ...

OCED Mandate Serve as primary office in DOE for delivering full scale clean energy demonstration projects and for project management oversight excellence Help enable 100% ...

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System Topology



Smart hydrogen storage operation and power-to-power routes

It is the first comprehensive green hydrogen demonstration project on an island in China. The project promotes the clean energy consumption and power flow optimisation of power grids on ...

Hybrid lithium-lead acid Smart Grid Demonstration ...

A hybrid battery energy storage project aimed at helping authorities and power system operators in Poland better understand how to integrate and expand renewable energy capacity in the country has gone ...



China's First Molten Salt Energy Storage Technology Demonstration

The project adopts a high-temperature and low-temperature dual-tank molten salt energy storage system, using the technology of steam extraction and heating of molten ...

Recommendations for Implementing Energy Storage

...

In the Energy Act, Congress directed DOE to establish a focused energy storage research, development, and demonstration (RD& D) program, including the large-scale demonstration of ...



New York bets on long-duration energy storage ...

Form Energy's project will be the first demonstration of its technology in New York and the only multi-day battery storage project in the state.

Energy Storage Policy and Regulation

Supported the development of incentive, grant, and procurement programs providing hundreds of millions of dollars to accelerate the development of energy storage pilots and demonstration projects. ...



Advancing Clean Energy Demonstration Projects

The demonstration step on the innovation journey can be particularly difficult, especially for large-scale projects, because of the significant risk and capital required to test out certain ...

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