

European Solar and Energy Storage Solutions

New energy storage pilot is about to land



Overview

On September 5, 2024, the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED) opened applications for up to \$100 million in federal funding to support pilot-scale energy storage demonstration projects. This funding—made possible by the Bipartisan Infrastructure Law—will focus on non-lithium technologies, long .

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As part of the Biden-Harris Administration's Investing in America agenda, the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED) today opened applications for up to \$100 million in funding to support pilot-scale energy storage demonstration projects.

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The US Department of Energy is funding a pilot project to demonstrate the commercial viability of storing energy in heated sand, which is capable of producing 135 MW of power for five days. Could heated sand be a multi-day energy storage system?

Researchers at the US Department of Energy's National Renewable Energy Laboratory (NREL) have developed a prototype for a multi-day energy storage

system using heated sand, setting the stage for a pilot demonstration project.

Are flow batteries the future of energy storage?

And flow batteries have a global market estimated by a research firm at \$289 million in 2023. For seasonal energy storage, hydrogen storage in salt caverns is an option. A project in Utah is expected to have a storage capacity of 150 GWh matched with an 840 MW hydrogen-capable gas turbine combined cycle power plant.

How does a thermal energy storage system work?

The sand used in the thermal energy storage (TES) system could be heated to the range of 1,100 C using low-cost renewable power. The nearby diagram shows that when electricity is needed, the system will feed hot sand by gravity into a heat exchanger, which heats a working fluid, which drives a combined-cycle generator.

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The new project, located in the Lingang new area of the China (Shanghai) Pilot Free Trade Zone, is scheduled to break ground in the first quarter of 2024 and start production in the fourth quarter. The factory will ...

DOE Announces First Projects Under New Cleanup to Clean Energy

As part of the Cleanup to Clean Energy initiative, DOE has also issued requests for qualifications (RFQs) to lease land at four additional sites, including the Hanford site in ...



OCED Issues Notice of Intent for up to \$100

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Since announcing the Cleanup to Clean Energy initiative in July last year, DOE has issued six requests for qualifications to lease land at the SRS in South Carolina; Hanford ...



Funding Notice: Long-Duration Energy Storage Pilot ...

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