

Washington d c flow battery technology

washington, d.c. -- The U.S. Department of Energy (DOE) today announced \$17.9 ...

The US Department of Energy (DOE) has shortlisted the projects to receive US\$325 million for long-duration energy storage (LDES), with technology providers including Energy Dome, Invinity, Form Energy and Redflow.

The grant funding will go to a total of 15 projects across the US which are deploying technologies that provide 10 or more hours of energy storage discharge at full power, the DOE's definition of LDES.

The government department aims to reduce the cost of LDES by 90% by 2030, and the funding aims to help companies overcome the technical and institutional barriers to full-scale deployment of LDES technologies.

LDES is widely agreed to be needed in order to integrate intermittent renewable generation as it passes 50% of the energy mix, but technologies have been slow to commercialise due to higher upfront costs and less of a track record than the industry incumbent for energy storage, lithium-ion technology.

The funding applicants still need to undergo a negotiation process with the DOE, which can still cancel negotiations and rescind the funding for any reason, though the process is expected to be wrapped up before the end of 2023.

"As we build our clean energy future, reliable energy storage systems will play a key role in protecting communities by providing dependable sources of electricity when and where it's needed most, particularly in the aftermath of extreme weather events or natural disasters," said US Secretary of Energy Jennifer M. Granholm.

"Thanks to President Biden's Investing in America agenda, DOE is supporting game-changing energy storage projects across the nation--laying the foundation for the innovative solutions we need to ensure stronger, more resilient communities."

Nine projects won a total of US\$286 million from the LDES Funding Opportunity while another six won US\$39 million under the LDES Lab Call funding opportunity for projects deployed at national labs.

Noteworthy among the first group are new projects which will utilise the vanadium redox flow battery (VRFB) technology of Invinity Energy Systems and the carbon dioxide-based technology of Italy-based Energy Dome.

The DOE plans to fund six projects totalling 84MWh of energy storage capacity using Invinity's latest



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VRFB product, Mistral, with deliveries expected in 2025.

Five of the six, totalling 72MWh, will be developed by a consortium led by the National Renewables Cooperative Organisation, supported by Invinity and national lab Pacific Northwest National Laboratory (PNNL). The DOE's funding will be used alongside matching funds from NCRO consortium partners to purchase, install and operate the VRFB units at projects operated by co-operative utilities in the Midwest and Southwest.

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