



Slovakia air energy storage project launched





Overview

The Slovakian project will be the first of its kind in Europe, delivering gigawatt-hour-scale energy storage capacity to capture surplus electricity from VVB's hydropower stations and dispatch it to the national grid when needed.

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Echogen and Westinghouse will aim to store surplus hydropower using supercritical CO₂, aiming to offer long-duration energy supply to Slovakia's grid. Echogen Power Systems and Westinghouse Electric Company have signed a Memorandum of Understanding with state-owned hydropower operator.

Echogen Power Systems declared that its strategic partner, Westinghouse Electric Company, has signed a Memorandum of Understanding (MoU) with Vodohospodárska Výstavba (VVB) to work together to build Europe's first grid-scale pumped thermal energy storage (PTES) system in Slovakia. This initiative.

AKRON, Ohio, July 31, 2025 /PRNewswire/ — Echogen Power Systems is proud to announce that its strategic partner, Westinghouse Electric Company, has signed a Memorandum of Understanding (MoU) with Vodohospodárska Výstavba (VVB) to plan the development of Europe's first grid-scale pumped thermal.

The European Commission has earmarked €2.1 million under the Connecting Europe Facility (CEF) for Energy to assess adding a battery energy storage system (up to 80 MW/160 MWh) to Slovakia's 735 MW Cierny Vah pumped-hydro plant and to modernise two of its six units. The PCI-designated project.

Echogen Power Systems has announced that its strategic partner, Westinghouse Electric Company, has signed a Memorandum of Understanding (MoU) with Vodohospodárska Výstavba (VVB) to plan the development of Europe's first grid-scale pumped thermal energy storage (PTES) system in Slovakia. This.

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first grid-scale pumped thermal energy storage (PTES) system in Slovakia. This:



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Powering the Future: Inside Bratislava's Large-Scale Energy Storage Project

The project's Phase 1 alone can store 800 MWh - enough to power 27,000 Slovak households during winter blackouts. That's equivalent to keeping all Bratislava's Christmas lights glowing ...

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The planned facility in Slovakia will be the first of its kind in Europe, providing gigawatt-hour-scale energy storage capacity. It will store surplus electricity generated by ...



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The proposed plant in Slovakia will be the first of its type in Europe and will be able to store energy on a gigawatt-hour scale. During peak demand, it ...

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Echogen Power Systems and Westinghouse Electric Company have signed a Memorandum of Understanding with state-owned hydropower operator Vodohospodárska ...

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The proposed plant in Slovakia will be the first of its type in Europe and will be able to store energy on a gigawatt-hour scale. During peak demand, it will take excess electricity from ...

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Powering the Future: Inside



Bratislava's Large-Scale Energy ...

The project's Phase 1 alone can store 800 MWh - enough to power 27,000 Slovak households during winter blackouts. That's equivalent to keeping all Bratislava's Christmas lights glowing ...

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Echogen, a pioneer in supercritical carbon dioxide (sCO₂)-based PTES technology, is collaborating with Westinghouse to deploy long duration energy storage (LDES) solutions ...

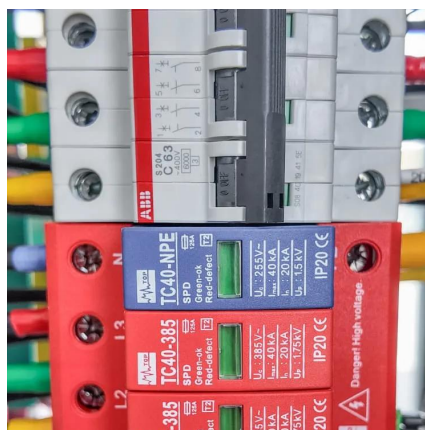
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