



Will Hydrostor provide back-up power to Broken Hill in 2027?

BROKEN HILL, AUSTRALIA, Dec. 07, 2023 (GLOBE NEWSWIRE) -- Hydrostor, a global long duration energy storage (LDES) developer and operator, has reached an Agreement with Transgrid, which will see the 200MW/1600MWh Silver City Energy Storage Project (Silver City) provide back-up power to Broken Hill as early as 2027.

How long will Hydrostor lease Broken Hill?

Hydrostor will employ an advanced compressed air energy storage system near Broken Hill. An agreement between Hydrostor and Crown Lands, part of the NSW department of planning, housing and infrastructure (DPHI), will see Hydrostor lease the land for a period of 65 years, with construction expected to begin in 2025, following development approval.

Will Hydrostor be better than diesel generators in Broken Hill?

(Supplied: Hydrostor) The Transgrid report highlighted that Hydrostor's project was expected to deliver \$286 million in net benefits over a 27-year assessment period, just under 6 per cent more than the diesel generators. Ms Jordan said it would have broader impacts in Broken Hill than the generators.

What is Hydrostor doing with Perilya's Potosi mine?

Canadian company Hydrostor has signed a binding agreement with base metals and exploration company Perilya for access to Perilya's Potosi mine, on the outskirts of the city. The facility will store compressed air underground and is expected to generate 200 megawatts of power that would be used as a back-up supply for Broken Hill.

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The agreement will see Hydrostor lease the land for a period of 65 years, with construction expected to begin next year following development approval. SCESC will provide crucial long a?]



Broken Hill is located in the far west of New South Wales and is part of Transgrid's south western transmission network. It is currently supplied by a single 220 kV transmission line, "Line X2", from Buronga which spans approximately 260 km. followed by network support provided by the Hydrostor compressed air storage solution (Option 1A(4

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Global long duration energy storage (LDES) developer and operator, Hydrostor, and the New South Wales (NSW) Government have officially signed a Crown Lands agreement to enable the construction of the Silver City Energy Storage Centre, designed to provide crucial backup power to Broken Hill and support the stability of energy in the region by enabling a mini a?|



The agreement will see Hydrostor lease the land for a period of 65 years, with construction expected to begin next year following development approval. SCESC will provide crucial long duration energy storage capacity and stability to the Broken Hill region, with a total capacity of 200 MW and 1,600 MWh (8 hours of storage duration at full output).



Broken Hill is currently supplied by one transmission line that runs 260km from Buronga, NSW near the Victorian border. Hydrostor's Silver City Energy Storage Project would support electricity supply for the town and ongoing mining demand when the transmission line is temporarily out of service for activities like repairs and maintenance.

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Hydrostor's technology is less affected by these limitations and can be flexibly sited due to a variety of air storage cavern methods, including a greenfield basis utilizing purpose built hard-rock caverns, salt caverns, in addition to repurposing existing assets such as mines as in the case in Broken Hill at "Silver City".



Hydrostor has developed, deployed, tested, and demonstrated that its patented Advanced Compressed Air Energy Storage ("A-CAES") technology can provide long-duration energy storage and enable the renewable energy transition.



BROKEN HILL, AUSTRALIA, Dec. 18, 2023 (GLOBE NEWSWIRE) -- Hydrostor, a global long duration energy storage (LDES) developer and operator, has been awarded a Long-Term Energy Service Agreement

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But Hydrostor president Jon Norman said the company was looking for more regulatory clarity after being told that the lowest-cost energy option for Broken Hill was the city's existing diesel



kilometres northwest of Sydney, the New South Wales (NSW) city of Broken Hill will have its large-scale back-up diesel generator superseded by a mini-grid system supplied by Canadian-headquartered long-duration energy storage (LDES) developer Hydrostor's advanced compressed air energy storage (A-CAES) technology.



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On behalf of the Australian Government, the Australian Renewable Energy Agency (ARENA) has announced it has conditionally approved \$45 million in funding to construct a 200 MW / 1600 MWh fuel-free energy storage facility, developed by Hydrostor Inc, utilising their Advanced Compressed Air Energy Storage (A-CAES) technology and repurposing a disused a?]



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The project will support Broken Hill's energy grid by reliably incorporating the increasing amount of renewable energy, while providing a reliable backup power solution to the city when required. The facility will be able to generate 200 megawatts of stored power, over 8 hours when discharging at full capacity, and much longer at a lower output.

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The innovative project will utilise Hydrostor's Advanced Compressed Air Energy Storage (A-CAES) technology, enabling Broken Hill to potentially become one of the world's largest renewable mini-grids. The facility aims to replace aging diesel generators and provide reliable backup power for the region.



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This week, Hydrostor's senior vice president in origination and development Martin Becker visited Broken Hill to meet with key stakeholders. In a statement provided to the ABC, Mr Becker said a

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The project will support Broken Hill's energy grid by incorporating the increased generation of reliable, renewable energy and provide a reliable backup power solution to the city when required.



Broken Hill has moved another step closer to becoming one of the world's largest renewable mini-grids, following the publication of Transgrid's Project Assessment Conclusions Report (PACR) into securing the area's back-up power supply.. Transgrid executive general manager of network Marie Jordan said the preferred long-term solution put forward by Canadian firm Hydrostor a?|



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