Compressed air energy storage kingston

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As an active participant in Ontario’s energy transition, Utilities Kingston is supporting a long-duration energy storage project that would store electricity to be used in meeting peak demand.We are proud to be a partner on the proposed Quinte Energy Storage Centre (QESC), that would contribute 500 MW of capacity and eight hours of storage for continuous discharge into the provincial grid.

The project is a partnership with two leading Canadian renewable energy companies:Hydrostor Inc.andPotentia Renewables Inc., along with Utilities Kingston and in collaboration with theMohawks of the Bay of Quinte.

The QESC is an innovative solution that will support Ontario's future energy capacity and reliability requirements, with the construction of an Advanced Compressed Air Energy Storage (A-CAES) facility, located in Greater Napanee, near the Lennox Transformer Station.

Hydrostor"s Advanced Compressed Air Energy Storage (A-CAES) technology provides a proven solution for delivering long duration energy storage of eight hours or more to power grids around the world, shifting clean energy to distribute when it is most needed, during peak usage points or when other energy sources fail.

Using compressed air and water to store energy, A-CAES allows grid operators to draw on clean energy, even when there is no sun to fuel solar panels and no wind to generate energy from turbines.

With 1.75 megawatts (MW) of peak power output; a 2.2 MW charge rating; and 10+ megawatt-hours (MWh) of storage capacity, this utility-scale commercial application of A-CAES technology is a significant achievement, conforming to all interconnection, uptime, performance and dispatch standards as set out by the IESO.

Hydrostor"s Goderich energy storage facility proves out the ability of Hydrostor"s A-CAES technology to fully participate in and deliver a range of valuable grid services to electricity markets.

Contributing to deeper understanding of commercial A-CAES facilities at utility scale, corroborating performance and operational metrics, and supporting research in partnership with regional academic institutions.

Facility is fuel free, enabling the province to utilize surplus baseload electricity as a fuel source to provide cost-effective and valuable generating capacity for Ontario.

At its meeting on Tuesday, Jul. 25, 2023, the Council of the Town of Greater Napanee received a presentation from Potentia Renewables Inc., the Toronto-based company behind the new Quinte Energy Storage Centre

project (Quinte ESC), which will be located in Greater Napanee.

According to Jonathan Bitoun, Manager of Project Development at Potentia, the Quinte ESC is a "reliable large-scale, emissions-free energy storage solution that is being developed to support the energy transition and the emerging capacity gaps and needs in Ontario."

Bitoun made a presentation to introduce the company, its partners, the proposed project and the technology behind it, and some of the benefits this project can bring to the region and into the grid. The project already has the support of Utilities Kingston and the Mohawks of the Bay of Quinte.

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