

Residential energy storage kingston

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. and Potentia Renewables Inc., along with Utilities Kingston and in collaboration with the Mohawks 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.

The technology will provide bulk scale, long-duration energy storage that is emission and fuel free, supporting Ontario with its GHG reduction goals and resulting in minimal environmental impact.

The project is anticipated to reduce greenhouse gas emissions by a minimum of 90,000 tonnes annually, and to benefit grid reliability and regional economic development. This includes supporting \$1.4 billion in provincial gross domestic product and approximately 670 direct construction industry jobs over a four-year construction period.

Here's a summary of the A-CAES process:

The province is projecting continued growth in Ontario's electricity demand across residential, commercial, industrial, and transportation sectors. Considering societal decarbonization goals, it will be critical for energy companies to pursue innovative opportunities like non-wire alternatives to help ensure the continued reliability of the provincial energy grid.

Utilities Kingston acknowledges that we are on the traditional homeland of the Anishinaabe, Haudenosaunee and the Huron-Wendat, and thank these nations for their care and stewardship over this shared land. Read more on our land acknowledgement page.

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NAPANEE -- Utilities Kingston is supporting a project that could provide a way to store electricity to be used to meet peak demand.

The Advanced Compressed Air Energy Storage is being proposed as part of the Quinte Energy Storage Centre near the Lennox Generating Station west of the city. The project promises to store 500 megawatts of electricity for use during peak demand.

Put simply, the system uses off-peak electricity to run a high-pressure compressor to create compressed air, which is then pumped into an underground, water-filled storage tank. When the air is pushed into the storage tank, the water is displaced to a holding pond on the surface.

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