Advanced compressed air energy storage

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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.

Hydrostor"s technology has the benefit of using existing technology components and well-established engineering processes in a unique and patented application.

Entirely fuel-free, the plant produces zero greenhouse gas emissions, and helps enable a cleaner, more affordable, and more flexible electricity grid.

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.

Supporting economic diversification in cleantech alongside significant construction expenditures and related jobs within the community.

With a 50+ year lifetime, the facility will provide a stable revenue source for local communities. A-CAES plants use standard components and enables workers from the fossil-fuel industry to transfer existing skills to the clean energy future.The project will support diversified wage job opportunities and generate significant regional economic development from both the construction and operation of the project.

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Willow Rock will allow California"s attractive and growing solar and wind resources to be directly converted into reliable, on-demand electricity for the greater Los Angeles region and the broader California grid for decades in the future.

The project supports the delivery of dispatchable electrical capacity into the Los Angeles Basin and broader California grid, while ensuring reliable long duration storage capacity well into the future as long duration storage becomes increasingly important to reliably serve load.

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