Hydrostor compressed air energy storage

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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.

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.

Willow Rock, and A-CAES technology, provides value in addition to energy storage by helping optimize the use of the existing transmission system. By storing excess wind and solar energy during times of abundance and dispatching this energy when it is most needed, our system allows for more efficient use of transmission lines to deliver reliable service and ensure new transmission is built where it"s most needed.

A-CAES technology offers systems diversity to the California grid to help enable grid resilience. It provides different generation characteristics relative to the other grid assets and storage technologies thereby supporting a more robust portfolio of clean energy resources.

The facility will deliver dispatchable capacity, using renewable energy generation in the High Desert area directly into the LA Basin and enable further renewable asset growth in the High Desert Solar Resource Area and Tehachapi Wind Resource Area.

Willow Rock provides an alternative to the use of fossil fuel power plants to meet electricity demand. It will support California"s objective of reducing GHG emissions 40% below 1990 levels by 2030. Key for enabling SB100 and LA100 objectives for 100% carbon-free renewable electricity by 2045.

A-CAES offers the equivalent bulk energy storage capabilities as pumped hydro storage with substantially lower land and water requirements. A-CAES is a sustainable energy storage technology that is non-combustible, has minimal residual hazardous waste at asset retirement and will experience virtually no performance degradation over its commercial lifetime.

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