

# Air Energy Storage Project



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### Technology Strategy Assessment

This technology strategy assessment on compressed air energy storage (CAES), released as part of the Long-Duration Storage Shot, contains the findings from the Storage Innovations (SI) 2030 strategic

### [Demonstrating an Aqueous Air-Breathing Energy Storage System for](#)

Multi-day energy storage technologies, including iron-air batteries, could help pave the way for California to build a resilient, clean, and reliable grid.



### [Air Energy Storage Power Generation Projects: Key Applications and](#)

By converting electricity into compressed air during low-demand periods and releasing it when needed, this technology bridges the gap between intermittent renewable sources and stable grid demands.

### [Massive underground air battery project lands \\$1.76B DOE award](#)

The Biden administration has offered a \$1.76 billion conditional loan guarantee to Hydrostor's Willow Rock advanced compressed-air energy storage project in California, which aims to store energy





### [California power aggregators sign on for 50-MW slice of compressed-air](#)

The 500-MW/4,000-MWh advanced compressed air energy storage (A-CAES) project can store energy for eight hours of continuous discharge to the grid, and will provide reliable capacity

## **Top 8 Compressed Air Energy Storage startups 2026**

Its technology combines compressed air storage (CAES) and hydrogen storage. Its projects utilize underground salt caverns (either newly built or repurposed from oil and gas storage)



## **Technologies and prospects for compressed air energy storage**

In this Review, we examine fundamental research, technological development, demonstrations and applications of CAES. Large-scale CAES facilities can store more than 300 MW

## **Compressed-air energy storage**

The ISEP was an innovative, 270-megawatt, \$400 million compressed air energy storage (CAES) project proposed for in-service near Des Moines, Iowa, in 2015. The project was terminated after



## **The liquid air alternative to fossil fuels**

An overlooked technology for nearly 50 years, the world's largest liquid air energy storage facility is finally set to power up in 2026. It's hoping to compete with grid-scale lithium

## **This long duration compressed air energy storage project**

Hydrostor's GEM A-CAES has received a conditional loan guarantee of up to \$1.76 billion from the US Department of Energy (DOE) to build the Willow Rock Energy Storage Center, a cutting



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