

# **London Compressed Air Energy Storage Power Plant**





## Overview

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Compressed air energy storage (CAES) is an established and evolving technology for providing large-scale, long-term electricity storage that can aid electrical power systems achieve the goal of dec.

Could compressed air energy storage be the solution to Britain's struggling energy system?

Compressed Air Energy Storage could be the solution to Britain's struggling energy system. As renewable energy generation continues to accelerate, the UK is struggling to keep up with increased clean energy capacity. We are lacking the infrastructure needed to store and distribute this clean power effectively.

What is compressed air energy storage?

Compressed air energy storage is a large-scale energy storage technology that will assist in the implementation of renewable energy in future electrical networks, with excellent storage duration, capacity and power. The reliance of CAES on underground formations for storage is a major limitation to the rate of adoption of the technology.

Where can a compressed air energy storage facility be built?

Compressed Air Energy Storage (CAES) facilities can be built in locations that have suitable geological formations for storing compressed air. Ideal sites typically include underground caverns, such as salt domes, depleted natural gas fields, or aquifers, which can effectively contain the high-pressure air.

Will the UK support long-duration energy storage in 2025?

The UK has significantly advanced its support for long-duration energy storage (LDES) in 2025, recognising its role in achieving net-zero targets and ensuring energy security. In April 2025, Ofgem opened the first application window for the UK's LDES cap and floor scheme.



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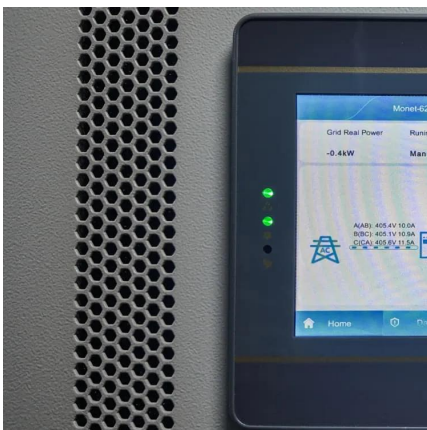
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