

High-pressure air energy storage solution





Overview

What is compressed air energy storage (CAES)?

Compressed air energy storage (CAES) is an effective solution for balancing this mismatch and therefore is suitable for use in future electrical systems to achieve a high penetration of renewable energy generation.

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.

What is Siemens Energy compressed air energy storage?

Siemens Energy Compressed air energy storage (CAES) is a comprehensive, proven, grid-scale energy storage solution. We support projects from conceptual design through commercial operation and beyond.

Why should you use air as a storage medium?

The use of air as a storage medium is a significant strength, as it is readily available and easy to obtain, eliminating concerns related to resource scarcity. CAES systems can store energy for much longer periods compared to battery storage systems, making them particularly suitable for applications requiring extended energy supply.



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