Swiss Compression Energy Storage Project

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Generated on: 2026-06-11 14:37:08

For the first time, a pilot project called Alacaes is developing a new system that stores electricity in the form of compressed air in the Swiss Alps, with the support of the Swiss ...

Advancements in adiabatic CAES involve the development of high-efficiency thermal energy storage systems that capture and reuse the heat generated during compression. This ...

As one of the largest battery technology research platforms available to industrial R& D projects in Switzerland, the overall aim of ESReC is to develop knowledge and technologies essential for ...

Founded in 2020 and headquartered in Hasle bei Burgdorf (canton of Bern), Green-Y Energy develops and produces innovative compressed air energy storage systems ...

In the present project, the scientists developed a storage tank that absorbs the heat generated during air compression and ...

Lead - The joint project provides an integrated investigation along a value chain of advanced adiabatic compressed air energy storage (AA-CAES), the only large-scale energy storage ...

"This project helps to stabilize the electricity grid in Switzerland and to optimize the management of our own energy and power capacity in Wettingen."

Integrating fluctuating renewable energy sources requires bulk storage. An alternative to the proven pumped hydro energy storage (PHES) is advanced adiabatic compressed air energy ...

OverviewTypesCompressors and expandersStorageEnvironmental ImpactHistoryProjectsStorage thermodynamicsCompression of air creates heat; the air is warmer after compression. Expansion removes heat. If no extra heat is added, the air will be much colder after expansion. If the heat generated during compression can be stored and used during expansion, then the efficiency of the storage improves considerably. There are several ways in which a CAES system can deal with heat. Air storage can be

adiabatic, diabatic, isothermal, or near-isothermal.

Green-Y, a Swiss start-up founded in 2020, has developed a compressed air power storage unit that can heat and cool, combining the functions of a battery and a heat ...

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