

SolarTech Power Solutions

Swiss new energy storage site design



Overview

Which energy storage projects have been commissioned in Switzerland?

Axpo commissioned its BESS in February this year while utility Thurplus commissioned a 3MW system in September last year. But Switzerland was the location for one of the largest energy storage projects commissioned in recent years, a 20GWh pumped hydro energy storage (PHES) unit which started operations in June 2022 in the Canton of Valais.

How will a large-scale storage system help the Swiss power grid?

In this way, the system will help to stabilise the Swiss power grid. With this large-scale storage system, we are making a decisive contribution to the implementation of Switzerland's Energy Strategy 2050, which aims to convert 100 per cent of its energy supply to renewable energies by 2050.

Where in Switzerland will Primeo energy install a battery storage system?

In Kappel, in the canton of Solothurn, we will install one of the largest battery storage systems in Switzerland with a total capacity of 65 megawatt hours. Primeo Energie will use the stand-alone storage system to make energy more flexible and store electricity temporarily and withdraw it again when it is needed.

Does Switzerland's new large-scale battery support the Energy Strategy 2050?

The new large-scale battery for Switzerland in Kappel supports the Energy Strategy 2050 and supports renewable energies.

What is swissstes?

SwissSTES aims to reduce Switzerland's dependency on fossil fuels by pioneering seasonal thermal energy storage (STES) to become a net-zero carbon society. An interdisciplinary consortium develops and assesses novel STES technologies and proposes a systemic STES action and implementation plan. The project was kicked off on the 19th of January 2024.

Where is the gravity energy storage system based?

The research and development of the gravity energy storage system has been based in Ticino and operational since 2019 with its own R&D centre. The commercial demonstration unit has been connected to the Swiss national utility grid and used for two years of testing and software commissioning.

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Energy Storage Power Stations in Switzerland: Innovations, ...

Sep 26, 2023 · Traditional pumped-storage plants like Nant de Drance (a beast capable of powering 400,000 homes) now share the stage with grid-scale batteries. In 2023, ...



Energy storage innovation in Switzerland: a ...

Aug 10, 2016 · 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, ...

switzerland Archives

Sep 4, 2023 · A flurry of grid-scale energy storage news from Europe, with large-scale projects progressed in Kosovo, Switzerland and Croatia involving Millenium Challenge Corporation, ...



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Swiss start-up uses gravity to store electricity

Jun 28, 2024 · Tokyo (SCCIJ) - The young Swiss company Energy Vault has developed and built the first commercial battery storage system for electricity based on gravity. Such systems are ...

Risk Engineering Services Sustainability Series: Energy ...

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Modeling Ground Surface Deformation at the Swiss

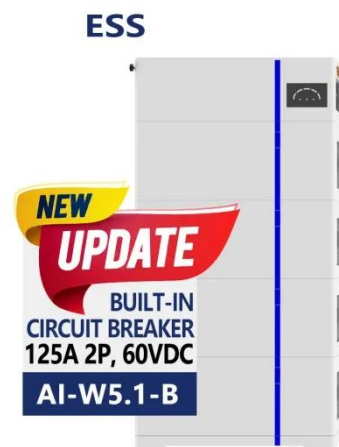


...

Oct 21, 2021 · In this work we offer numerical modeling support for the Geneva site. A site-specific, hydro-mechanical (HM) model is created, which uses input from the energy systems ...

Home Solar Storage Switzerland: 5 Essential Reasons for ...

May 17, 2025 · As Switzerland advances towards its renewable energy targets, the home solar energy storage market is poised for substantial expansion, contributing significantly to the ...



Giant gravity batteries for storage of renewable energies

May 7, 2024 · For wind and solar power plants to reach their full potential, they need storage systems. A Swiss start-up is introducing a gravity-based battery solution. It is an extraordinary ...

Preparedness Guide: Battery Energy Storage

Systems (BESS)

Aug 19, 2025 · Its usage, for instance, ranges from load management, power back-up, frequency control as well as renewable energy integration. Evolving technology for battery energy ...



Swiss developer breaks ground on 1.6 GWh redox flow storage ...

May 23, 2025 · Flexbase Group has begun construction on what could become one of Europe's largest flow battery storage installations, breaking ground on an 800 MW/1.6 GWh redox flow ...

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