

50GWh power storage project in Zurich Switzerland

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Will hydropower grow in the Swiss Energy Strategy 2050?

In order to compensate the vanishing nuclear generation, hydropower is supposed to grow in the Swiss Energy Strategy 2050. While hydropower shows great benefits and ecological strengths such as high efficiencies and very low CO₂,eq per unit of electricity generated, it does have impacts on the aquatic environment.

What role does hydropower play in the Swiss electricity system?

Thanks to its flexibility and storage options at multiple scales, from milliseconds to seasons, hydropower is the backbone of the Swiss electricity system. Keeping its central role would foster the integration of volatile renewable energy resources like photovoltaics and wind.

What is the hydropower generation and storage potential?

Herein, the hydropower generation and storage potential in three scenarios, from lower-bound to upper-bound, is summarized. In the upper-bound scenario the expected annual generation of 39.1 TWh/a slightly exceeds the target of 38.6 TWh/a as defined by the Swiss energy strategy 2050.

How much energy did Swiss nuclear power plants import in 2016/17?

In the winter 2016/17, when the generation of the Swiss nuclear power plants was pronouncedly below average, the net import of 10 TWh represented even 39% of the domestic net generation in the winter half year (SFOE, 2019b).

By 2050, the aim is for Switzerland's energy system to be decarbonised and no longer reliant on nuclear power. How this can be achieved and the costs of doing so are set ...

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A systematic study at ETH Zurich within the SCCER framework explored the potential of extending the storage capacity of existing Swiss storage lakes (reservoirs) by dam heightening.

Switzerland's new EUR2 billion energy storage initiative isn't just another infrastructure project - it's a moonshot combining hydropower tradition with cutting-edge tech.

The Federal Council just launched Europe's most ambitious battery storage tender - a 900 MW capacity push to solve their Alpine energy puzzle. But why's a country drowning in hydropower ...

Battery energy storage PCS solution for EKZ, one of Switzerland's largest energy companies BESS 1 MW / 250 kWh PCS solution at the Dietikon Power Plant in Zurich, Switzerland.

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Build seasonal storage demonstrators to advance Swiss technology research & competencies. Leverage and develop current infrastructure and use of existing knowledge to develop ...

With the Zurich Energy Storage Project 2024, the country takes another leap toward achieving its 2050 net-zero targets. This project focuses on large-scale battery storage systems designed to ...

This article explores cutting-edge storage solutions reshaping grid stability while addressing renewable energy intermittency - a challenge affecting solar, wind, and hydroelectric systems ...

A new pumped-storage power station, one of the most powerful in Europe, came on stream in canton Valais in southern Switzerland in July 2022.

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