

Why is the Swiss transmission grid important?

The Swiss transmission grid, which is like a network of 'electricity highways', has an important role to play. As the backbone of a secure supply of electricity, it makes a key contribution to achieving the goals of the Energy Strategy 2050. Switzerland's electricity system is in the midst of the greatest upheaval in its successful history.

Why is the grid important in Switzerland?

The grid and secure grid operations are fundamental prerequisites for prosperity and high quality of life in Switzerland. From healthcare and business to individual households, our modern society depends on electricity being available at all times, even in the most remote locations.

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.

What are Switzerland's new energy regulations?

Switzerland is expanding rules for rooftop solar, energy storage, and energy communities to expand self-consumption and ease pressure on the grid. The new regulations, set to take effect in 2026, introduce updated tariffs, encourage battery storage, and allow local electricity trading.

How does the grid development process work in Switzerland?

The grid development process in Switzerland is governed by the provisions of the Federal Act on the Renovation and Expansion of the Grids ('Electricity Grid Strategy'). The relevant provisions are found in particular in the Electricity Supply Act (Article 9a-d StromVG).

How will new solar regulations affect Switzerland's electricity grid?

"The new regulations encourage the temporary storage of solar production peaks, which helps relieve the electricity grids," said Swissolar. Switzerland installed approximately 1.78 GW of new PV capacity in 2024, according to provisional figures from Swissolar.

With 60% of its electricity already coming from hydropower, the country is now blending old-school reservoirs with futuristic battery tech. Think of it as a "Swiss Army knife" ...

With its hydroelectric power plants in the Alps and innovative projects, Switzerland is contributing to the search for solutions for the efficient, long-term storage of electricity. I cover...

Some of the key players in the Swiss energy storage market include Leclanch&#233;, which is developing lithium-ion batteries for grid-scale applications, and Energy Vault, which is ...

Switzerland has been relying on pumped storage to release power on the grid when needed for decades, and laws have been tailored to support this technology. The trend ...

In this paper, we present an approach for peak shaving in a distribution grid using a battery energy storage. The developed algorithm is applied and tested with data from a real ...

Case Study: How a Chocolate Factory Went Off-Grid A Swiss chocolatier wanted to go carbon-neutral but kept melting the grid during peak production. Enter a custom lithium storage ...

The study examines the need and role of energy storage in Switzerland for the years 2035 and 2050. It considers various types of storage -- electricity, heat, and gas/liquid storage -- and ...

The Swiss developer started work this month on the technology center following regulatory approval, with commercial operation targeted for summer 2028. The facility will ...

Energy storage is rapidly become more and more relevant due to the increasing renewable energy fraction in the grid, the rise of photovoltaics and the increase in electric cars.

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