

SolarInvert Energy Solutions

Energy Storage Power Plant in Zurich Switzerland





Overview

The EKZ Volketswil Battery Energy Storage System is an 18,000kW energy storage project located in Volketswil, Zurich, Switzerland. What is the future of electricity storage in Switzerland?

One important pillar of this strategy is the further development of electricity storage capacity in Switzerland. In the next years, three large-scale pumped hydro storage power plants will be connected to the grid. The first, the Limmern pumped storage plant (1 GW), should become operational in 2016.

Who owns pumped battery storage plants?

The pumped storage plants are almost entirely owned by state controlled companies. More recently, ABB together with the Zurich power company EKZ has installed a 1 MW power battery storage solution with a capacity of 250 kWh in Dietikon, located in the canton of Zurich.

How many pumped hydro storage plants are there in Switzerland?

In the past, a total of 14, mostly small sized pumped hydro storage plants, were built, the last of which was commissioned in 1990. However, the combined capacity of these plants only amounts to 1380 MW contributing to approximately 4.4% of the total electricity produced in Switzerland.

What is the most powerful battery in Switzerland?

In 2012, the battery was connected to the grid and it is still the most powerful of its kind in the Swiss distribution network. It consists of 10,368 battery cells, similar to the ones used in electric cars. In 2015, the EWZ, the electric power company of the city of Zurich, installed a lithium-ion battery with a capacity 719 kWh.

Does Switzerland support pumped storage operators?

Despite the government's objectives defined in the Energy Strategy 2050, there is currently no direct support via subsidy for pumped storage operators



in Switzerland.

What role does hydropower play in the Swiss electricity supply?

Hydropower plays an essential role in the Swiss electricity supply. In fact, over half of the country's electricity is generated by hydropower. Therefore it is not surprising that electricity has been traditionally stored in pumped storage power plants.



Energy Storage Power Plant in Zurich Switzerland



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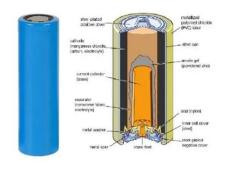
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pumped storage power plant in Valais, Switzerland. Image: Alpiq. A pumped hydro energy storage (PHES) plant with

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Hydro News 32

The technology was first applied in Zurich, Switzerland, in the early 1890s, when a local river was hydraulically connected with a nearby lake via a small pumped storage plant. Pumped storage

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the completion of the Swiss Federal Office of Energy (SFOE)'s ...

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



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also consider energy storage. Nicolas Crettanand looks at the potential for small storage and pumped-storage ...

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Hydropower

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