

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



ETH Zurich and EPFL launch a green energy ...

Aug 6, 2023 · ETH Zurich and EPFL want to work with partners from politics, science and industry to push innovative storage and transport solutions for ...

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May 13, 2025 · Hitachi Energy has completed and handed over to VERBUND, Austria's biggest power generator, the world's first static frequency converter ...

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Pumped Hydro Storage · Swiss Energy Storage ...

Nov 15, 2019 · Pumped hydro storage is one of the oldest energy storage technologies and the one with the biggest commercially used capacity ...

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Review of grid applications with the Zurich 1 MW battery energy storage

Mar 1, 2015 · We describe the configuration of the real life Zurich 1 MW battery energy storage system (BESS). We review the performance of the first two years of battery operation. ...



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Iron piloted for seasonal hydrogen storage

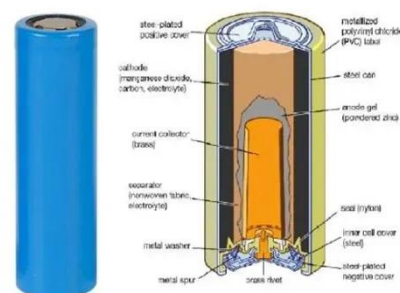
Sep 3, 2024 · The use of iron as a low cost approach to hydrogen storage is being piloted by researchers at the ETH Zurich in Switzerland.

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ETH unveils iron-based hydrogen storage that's ...

Aug 29, 2024 · ETH Zurich researchers plan to use 19th century knowledge to store hydrogen for months in a reaction involving iron and water, without any ...

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Storage and pumped-storage plants in Switzerland

Jun 26, 2012 · In Switzerland, SHP is defined by an installed capacity of up to



10MW. In 2010, SHP produced 3770GWh and covered 5.7 % of the Swiss electricity production (see Figure 1). ...

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Energy storage regulation in Switzerland , CMS Expert Guides

Apr 24, 2018 · 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 ...

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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, ...

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Switzerland: 20GWh pumped hydro energy ...

Jun 29, 2022 · The Nant de Drance

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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Apr 24, 2018 · 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 ...

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Pilot plant demonstrates iron-based hydrogen storage ...

3 days ago · According to the Swiss



federal government's Energy Strategy, Switzerland wants to close the winter electricity gap with a combination of imports, wind and hydropower as well as ...

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Swiss universities launch green energy coalition

Jun 8, 2023 · Swiss universities launch green energy coalition Switzerland's industrial power-to-gas plant in Dietikon uses renewable electricity from the ...

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EKZ Volketswil Battery Energy Storage System, Switzerland

Aug 31, 2021 · The EKZ Volketswil Battery Energy Storage System is an 18,000kW energy storage project located in Volketswil, Zurich, Switzerland. The electro-chemical battery energy ...

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Swiss Energy Storage 2025: Powering the Future with ...

Apr 1, 2025 · Let's cut to the chase: if

you're reading about Swiss energy storage 2025, you're probably either a tech geek drooling over battery innovations, a policymaker trying to balance ...

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Giant Pumped Storage Hydropower Facility ...

Aug 12, 2022 · Giant Pumped Storage Hydropower Facility Opens in Switzerland Fourteen years and more than \$2 billion later, the Nant de Drance power plant ...

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Energy from underground , ETH Zurich

Dec 18, 2024 · It provides carbon-neutral energy all year round and, unlike coal, gas or hydroelectric power plants, takes up minimal space, since most of the ...

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50KW modular power converter



Flexible Configuration

- Modular Design, Expanding as Required
- Small/Light, Wall Mounted
- Installed in Parallel for Expansion



Powerful Function

- Support PV+ESS
- Grid Support, Equipped with SVG Technology
- On-Grid and Off-Grid Operation



Reliable Protection

- Outdoor IP65 Design
- Sufficient Protection Functions Equipped

GE Adds Approximately 250 Megawatts of ...

Baden, Switzerland, April 17, 2023 -- GE Gas Power (NYSE: GE) today announced

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

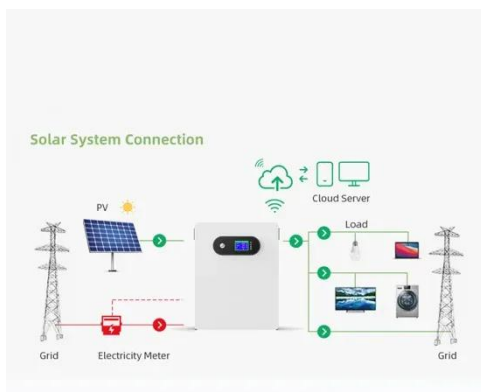
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Energy Storage Power Stations in Switzerland: Innovations, ...

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, ...

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Power & Energy Events in Switzerland 2025-2026

23.04.2026 - 24.04.2026 Innovation Forum Energy 2026 Zurich, Switzerland
Independent Swiss forum for market participants and decision makers in the energy sector.

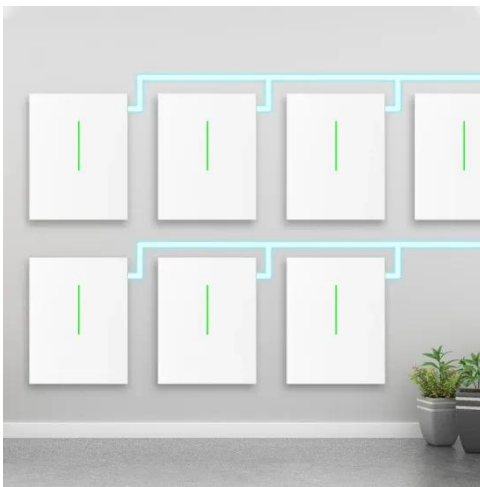
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Storage and pumped-storage plants in Switzerland

Jun 26, 2012 · The facilitation of renewable energy technologies should

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

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Switzerland: EWS and MW Storage expand ...

May 29, 2024 · The project in Ingenbohl, Switzerland. Image: EWS AG. Utility EWS AG and developer MW Storage have completed the expansion of a ...

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Frontiers , Future Swiss Energy Economy: The ...

Feb 1, 2022 · The volumetric energy storage density in a hydroelectric power plant is $1.1 \text{ kWh} \cdot \text{m}^{-3}$, and a storage lake volume of 16.3 km^3 could store 18 ...

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Case note Battery energy storage PCS solution for EKZ, ...



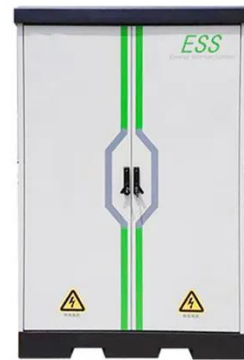
Mar 15, 2024 · Battery energy storage PCS solution for EKZ, one of Switzerland's largest energy companies BESS 1 MW / 250 kWh PCS solution at the Dietikon Power Plant in Zurich, ...

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Evaluation of the geothermal energy potential of ...

Feb 2, 2024 · The whole country of Switzerland was investigated on potential areas for geothermal power plant installations. A large set of data was analysed and integrated to give ...

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Production and consumption

6 days ago · Total energy consumption
This chart illustrates the development of overall energy consumption per month in Switzerland. This is the volume of ...

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Case note Battery energy storage PCS solution for EKZ,

...

Mar 15, 2024 · any EKZ, has successfully installed a 1 MW power battery storage solution at the Dietikon Power Plant. The battery is connected to the grid with ABB's Power Co. version ...

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100 Top Energy Companies in Switzerland · August 2025 , F6S

Aug 1, 2025 · Detailed info and reviews on 100 top Energy companies and startups in Switzerland in 2025. Get the latest updates on their products, jobs, funding, investors, founders and more.

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Hydropower

Thanks to its topography and high levels of annual rainfall, Switzerland has ideal conditions for the utilisation of hydropower. Towards the end of the nineteenth century, hydropower underwent ...

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Large-scale pumped storage in Switzerland

ABB is supplying a complete package of



electrical equipment for the new 1,000 MW Limmern pumped storage power plant in Switzerland. Kraftwerke Lint-Limmern (KLL), a member of the ...

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