Kongres Container

Solar power station power generation in Switzerland

Overview

How much energy does Switzerland use per year?

Annual production was 3 858 gigawatt hours (GWh), which is roughly equivalent to the annual consumption of 1.2 million four-person households or half the annual output of the Gösgen nuclear power plant. Solar energy production accounted for 6.76% of Switzerland's electricity consumption in 2022 (4.89% in 2020).

How much solar energy does Switzerland use in 2022?

Solar energy production accounted for 6.76% of Switzerland's electricity consumption in 2022 (4.89% in 2020). This year, solar energy will cover more than 8% of demand. The number of new storage batteries installed more than doubled compared with the previous year. The average storage capacity rose sharply from 12 to almost 15 kWh.

Why is solar energy important in Switzerland?

Solar energy, although contributing close to 9%, adds an important and growing component to the country’s energy mix. Notably, Switzerland is a significant net exporter of electricity, enhancing efforts to reduce emissions in neighboring regions.

What is the future of electricity in Switzerland?

The country's next challenge is to expand its electricity supply as it moves to power other sectors with clean electricity, thus broadening the use of electricity in transport, heating, and industry. Is Electricity Growing in Switzerland?

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Who surveys the solar market in Switzerland?

The Swiss Federal Office of Energy has been surveying the solar market in

Switzerland for more than 20 years. Due to this long experience the quality of the data has been maintained, thanks as well to all the installers and distributers who are willing to complete the annual questionnaire.

What is Switzerland's electricity mix?

For the years 2004 to 2024 the data source is Ember . For the year 2024/2025 the data source is aggregated data from the last 12 months (2024-09 to 2025-08) . For the months 2024-09 to 2025-08 the data source is ENTSOE . Switzerland's electricity mix includes 53% Hydropower, 38% Nuclear and 9% Solar. Low-carbon generation peaked in 2001.

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