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Title: Solar power with grid backup in switzerland

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In Switzerland, the price paid for solar energy added to the grid varies widely, ranging from less than 4 cents to as high as 21.75 cents per kWh in 2022 in one canton alone.

There is a growing number of producers of solar power in Switzerland. But unlike the electricity generated by hydropower plants, the production of photovoltaic plants is not controlled.

OverviewSolar productionOppositionFeed-in tariffs 2009 (KEV)Energy Act 2017In 2021, Switzerland's photovoltaic (PV) installations increased to 685 MWp from 475 MWp in 2020. The Federal Energy Act, revised and effective from January 1, 2018, changed the support scheme for PV systems: it extended the one-time investment subsidy to all sizes of PV systems, ranging from 2 kW to 50 MW. Additionally, in 2022, the investment subsidy formula was updated to encourage investments in larger PV capacities and more efficient use of rooftop space.

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...

Going forward, Switzerland is expected to face challenges from grid congestion, winter supply gaps, and limited land availability for utility scale renewables. At the same time, opportunities ...

The higher the winter electricity production, the more the solar PV panel can contribute to securing a reliable supply and to reducing electricity imports in Switzerland.

centralised use of flexibility and to demand rapid grid expansion. It can be assumed that there will be an oversupply of solar power throughout Europe at the same time as production peaks from PV ...

On particularly sunny days, excessive solar power generation at midday can strain the electricity grid. To prevent costly infrastructure expansion, the revised Electricity Act allows solar ...



Solar power with grid backup in Switzerland

With almost 1800 MW installed in 2024, rooftop grid-connected is the primary application of PV in Switzerland. Off-grid installations remain very marginal, with 1.2 MW installed in 2024.

The country is making steady progress on solar expansion - but there's still ground to cover. While current demand for PV systems remains modest, speakers at this year's Swissolar ...

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