

Solar energy for homes switzerland

Switzerland is not particularly known for its sunny weather. But solar radiation in Sion (VS) or Samedan (GR) is comparable with that in Tuscany. Nor does cold weather damage solar panels. Electricity production may be lower in fog and snow, but it is never zero.

Photovoltaic cells convert electromagnetic radiation into power. Solar heating systems, by contrast, consist of solar collectors with thermal energy storage. They produce hot water and support the heating system. An overview of the different technologies is provided, for example, by Swissolar, the Swiss Solar Energy Professionals Association.

Calculate your requirements:

The cantonal experts from GEAK can provide tips on the quality of the building shell and energy-efficient renovation.

The "cantonal viewpoint" may even be broken down into a "village viewpoint": Rules for solar energy systems vary depending on the municipality. Solar energy systems do not require a building permit everywhere, but they should always be reported to the municipality in advance. Get in touch with the local authorities early enough to clarify the situation with respect to:

The terms offered by your network operator will have a considerable impact on how quickly – and in some cases whether – purchasing the system will pay off. One sample calculation from the recently published study by ETH and the University of Bern on the profitability of solar energy systems: In Rümlang in the canton of Zurich, a 12 kW system on a single-family home will generate a return of 6% over 30 years. In neighboring Kloten, a similar system will return a slight loss. The decisive factor, alongside the purchase price, is the remuneration for feed-ins. In 2022 the rate in Rümlang was 16.97 centimes/kWh; in Kloten it was just 6.10 centimes/kWh. Ask your network operator about:

Natural resources like wind, water and the sun fluctuate. Thanks to more and more accurate weather forecasts, power production can be successfully estimated in advance. In addition, you can ensure greater energy supply stability by:

Photovoltaic systems are not primarily about an autonomous supply of power. They are – at best in combination with a battery storage system – a supplement to reduce the amount of external power purchased. Prices for solar energy systems have been falling sharply for years. At the same time, modules are now more efficient and fewer panels are needed. In addition, state discounts and tax return deductions are available. Clarify your specific requirements by:



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A photovoltaic system measuring 30 m²; for a single-family home costs around CHF 15,000. The Confederation will pay a one-off grant, currently CHF 2,600. The tax deduction amounts to some CHF 2,900. Acquisition costs of CHF 9,500 remain.

(Source: SENS Recycling)

The network operator at your location is crucial.

Too expensive, inefficient and ugly: Solar modules had a bad image for a long time. Unfairly so. Nowadays they are cheaper, more efficient – and nicer to look at.

Contact us for free full report

Web: <https://kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

