

# Switzerland Zurich farm installs solar air conditioning





## Overview

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Could agrivoltaics supply more electricity than Switzerland needs?

Agrivoltaics could supply five times more electricity than Switzerland needs. ZHAW researchers now intend to investigate the impact on plant growth. Grain and vegetable fields, pastures and orchards offer huge areas that, in addition to food, could also be used to produce electricity.

How much energy does a heat pump supply in Switzerland?

The current Swiss electricity demand is at around 60 TWh per year. Therefore, the demand for cooling energy supplied via heat pumps would correspond to 3-4% of the current overall Swiss electricity demand.

Do Swiss homes have air conditioners?

Today, only a minority of Swiss households have air conditioners installed for cooling. This might change due to the warming climate and the growing integration of heat pumps to new buildings, which can be used for heating and cooling.

How much energy does Switzerland need for cooling?

We find that for an extreme scenario, where all of Switzerland relies on air-conditioning, Switzerland could require comparable amounts of energy for cooling as heating by mid-century onwards. (Figure 2). In numbers, this corresponds to approximately 20 TWh for heating and 17.5 TWh for cooling.



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Fruits and solar power from a Swiss field

Mar 1, 2024 · Two Swiss universities now want to promote this and have founded the Agrisolar Forum. On a test field in Gelfingen in the canton of Lucerne, the sensitive raspberry bushes ...

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Agri photovoltaic could supply five times more electricity ...

Sep 2, 2024 · The theoretical potential of agrivoltaics in Switzerland is five times greater than the current electricity demand, as ZHAW researchers have determined. The combination with ...

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Solar PV Analysis of Zurich, Switzerland

In Zurich, Switzerland (latitude: 47.3934, longitude: 8.5163), solar power generation is a viable option with varying levels of energy production ...

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Cherries and solar panels: a Swiss farmer from Egnach ...

Aug 27, 2025 · A fruit grower in Egnach, Switzerland, has built an agrovoltaic system to protect 1,500 cherry trees from sun and rain while producing clean energy. A sustainable innovation ...

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Agrivoltaics: Advancing Sustainable ...

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Combining solar panels and agriculture has tremendous ...

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times more electricity than Switzerland needs. ZHAW researchers now intend to investigate ...

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Solar PV Analysis of Zurich, Switzerland

In Zurich, Switzerland (latitude: 47.3934, longitude: 8.5163), solar power generation is a viable option with varying levels of energy production across different seasons. On average, each ...

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