
Switzerland Zurich farm installs solar air conditioning

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.

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.

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.

This approach, also known as solar farming, supports Switzerland's renewable energy goals while strengthening rural economies. In addition to improving land-use efficiency, ...

Energy and climate protection in agriculture Swiss farming families are using renewable energies such as biogas and solar and wind power to drive the energy transition. ...

Combining solar panels and agriculture has tremendous potential Agrivoltaics could supply five times more electricity than Switzerland needs. ZHAW researchers now intend to investigate ...

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 ...

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 ...

How Agrivoltaics is Transforming Swiss Agriculture and Energy Efficiency Agrivoltaics, the integration of solar panels with agricultural land, is rapidly gaining traction in ...

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Adding renewables to indoor farming The company's so-called Green-Domes combine solar energy and indoor farming. Inside, the plants grow under ideal conditions, ...

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The Swiss company Insolight produces raspberries and strawberries under an agrivoltaic system in Conthey, Valais. The solar modules not only regulate light and heat for ...

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Buildings hold great potential for producing and saving energy. Today, however, this potential is still underutilized. As part of the HiLo project at NEST, researchers from the Chair ...

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