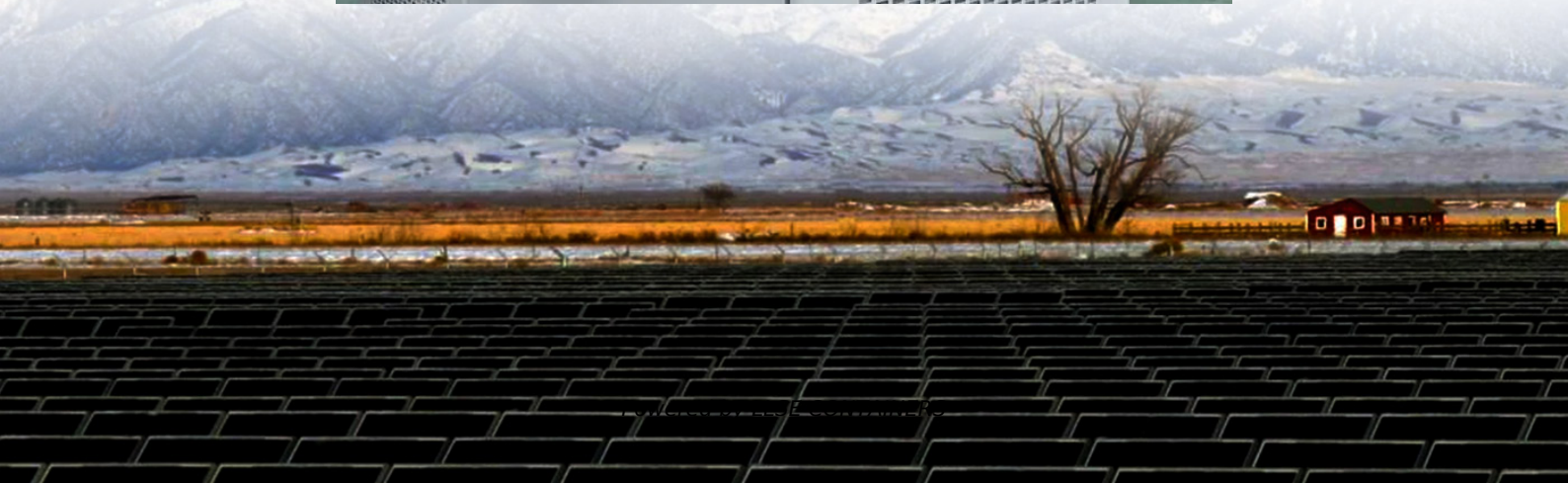


New Energy Solar Air Conditioning in Zurich Switzerland





Overview

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 cooling energy does Switzerland need by 2050?

In numbers, this corresponds to approximately 20 TWh for heating and 17.5 TWh for cooling. In a more moderate simulation scenario, Switzerland would still require around 5 TWh of cooling energy by 2050.

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.

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.



New Energy Solar Air Conditioning in Zurich Switzerland



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Solar Energy

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SOLAR AIR CONDITIONING

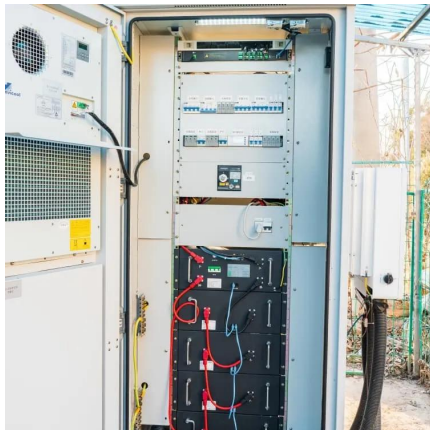
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