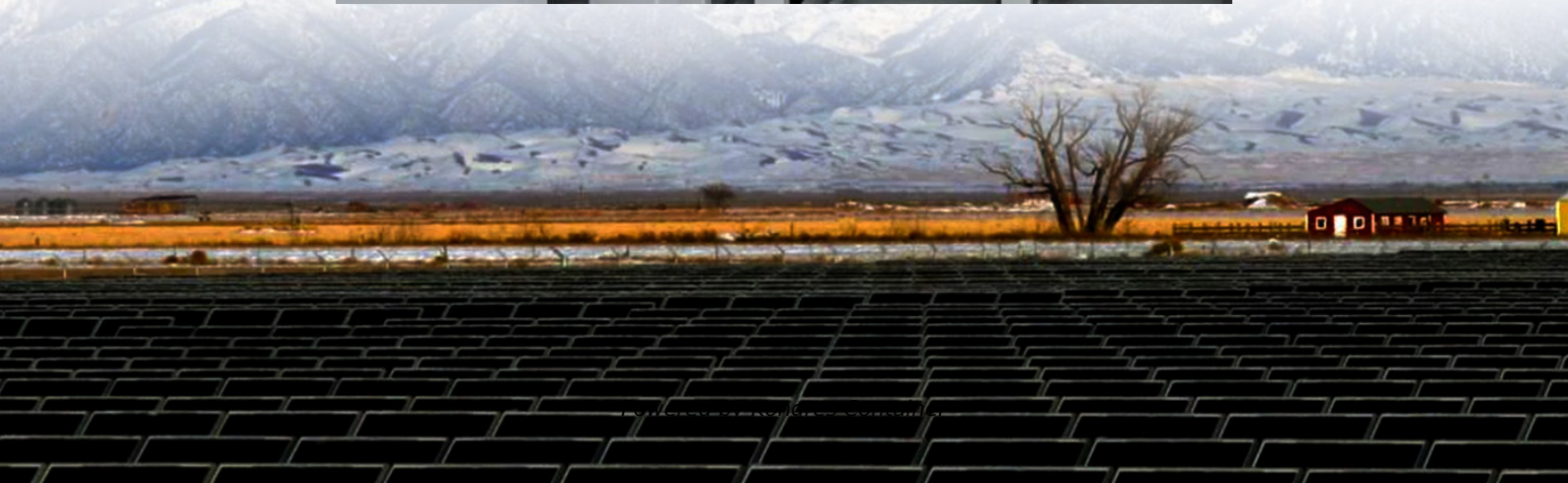


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The role of solar power generation and energy storage in Finland



Overview

How important is solar PV storage in Finland's energy system?

In an EnergyPLAN simulation of the Finnish energy system for 2050, approximately 45% of electricity produced from solar PV was used directly over the course of the year, which shows the relevance of storage. In terms of public policy, several mechanisms are available to promote various forms of RE.

Why is industrial-scale solar power production becoming more common in Finland?

As technology develops, industrial-scale solar power production is also becoming more common in Finland. Finland is undergoing a major energy transition. Moving away from imported fossil fuels and towards local, clean energy production will create the basis for new industrial investment.

Is energy storage the future of wind power generation in Finland?

Wind power generation is estimated to grow substantially in the future in Finland. Energy storage may provide the flexibility needed in the energy transition. Reserve markets are currently driving the demand for energy storage systems. Legislative changes have improved prospects for some energy storages.

Can solar power improve the profitability of buildings in Finland?

LUT University has investigated how the profitability of solar electricity could be improved in different types of buildings in Finland. Researchers have debunked myths related to the orientation and dimensioning of solar photovoltaic systems and sales of surplus electricity.

What is the future of energy storage in Finland?

Reserve markets are currently driving the demand for energy storage systems. Legislative changes have improved prospects for some energy

storages. Mainly battery storage and thermal energy storages have been deployed so far. The share of renewable energy sources is growing rapidly in Finland.

How will a hybrid energy system work in Finland?

In Finland, a number of hybrid projects are in the pipeline, combining wind, solar and also energy storage. These solutions will balance our energy system. On a global scale, solar power is one of the fastest growing forms of energy generation - its size and importance in the world's energy mix is huge, larger than wind power.

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