

# Vatajankoski sand battery



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### Vatajankoski Power Plant

In July 2022, the power station installed a sand battery developed by Polar Night Energy, a Finland-based company. [3][4] It has a rated capacity of 100 kW of heating power and 8 MWh of energy ...

### Finland's Sand Battery: Storing Green Energy Beneath the Surface

In Kankaanpää, a town of around 13,000 people, the sand battery is already proving itself. Connected to the local Vatajankoski district heating network, it supplements traditional energy ...



### Vatajankoski Sand Battery: Revolutionizing Low-Cost Energy Storage

In the quest for sustainable energy storage, a Finnish innovation is turning heads: the Vatajankoski sand battery. Developed in Finland's cold-climate laboratories, this thermal storage system uses ordinary ...

## New 'sand-in-motion' battery offers 10x more heat transfer efficiency

Finland's sand battery offers 10x more heat transfer efficiency, cuts energy bills by 70% The architecture of the new technology supports high vertical and horizontal scalability.



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## Sand Battery



Vatajankoski and Polar Night Energy have built a heat-storing sand battery in Kankaanpää as a pilot project. It can be used to reduce industrial energy costs and risks related to energy availability and ...

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## Finnish company creates an innovative sand battery

Finnish company creates an innovative sand battery Polar Night Energy has developed a thermal energy storage system which supplements renewable energy sources and reduces our ...



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## World's first Sand Battery

Polar Night Energy has developed and



operates the world's first commercial Sand Battery for Vatajankoski, an energy utility based in Kankaanpää, Western Finland. The thermal energy storage ...

## Finland's wild sand battery boosts heat efficiency 10x, slashes

Finland is turning one of the planet's most ordinary materials into a high impact climate tool, using hot sand to store vast amounts of energy and release it as heat when homes and factories



- ✓ 100KW/174KWh
- ✓ Parallel up-to 3sets
- ✓ IP Grade 54
- ✓ EMS AND BMS

## How a sand battery could transform clean energy

The sand becomes a battery after it is heated up to 600C using electricity generated by wind turbines and solar panels in Finland, brought by Vatajankoski, the owners of the power plant.

## World's First Large-scale Sand Battery Goes Online in Finland

The battery, which stores heat within a tank of sand, is installed at energy company Vatajankoski's power plant in the town of Kankaanpää, where it is plugged into the local district ...



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