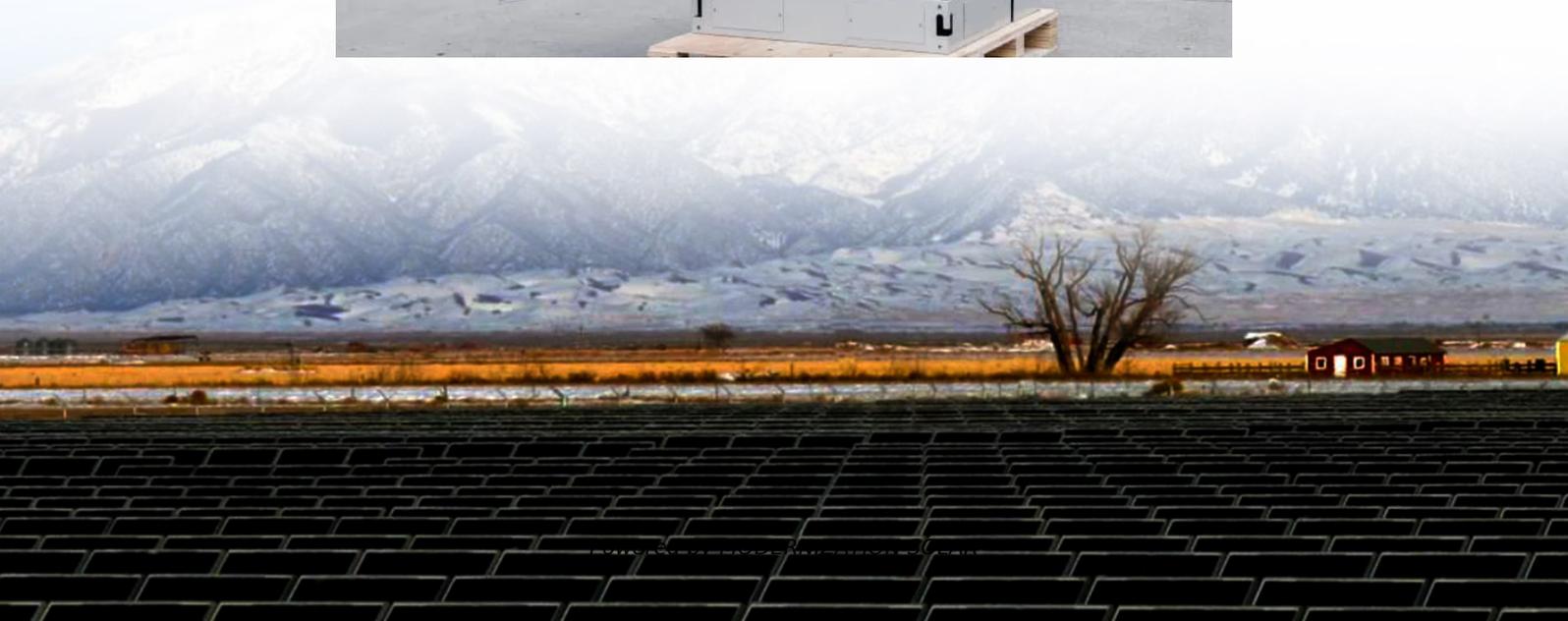


# **Energy storage equipment for heating in winter**





## Overview

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What is seasonal thermal energy storage (STES)?

Seasonal thermal energy storage (STES) harvests and stores sustainable heat sources, such as solar thermal energy and waste heat, in summer and uses them in winter for heating purposes, facilitating the replacement of fossil fuel-based heat supply and coordinating the seasonal mismatch between heat supply and demand .

What are the different types of seasonal heat storage?

Common seasonal heat storage includes seasonal sensible heat storage, seasonal latent heat storage, and seasonal thermochemical heat storage. Among them, both sensible and latent heat are used to store solar energy directly in the material.

Why do energy suppliers need a heat storage system?

Energy suppliers such as N-ERGIE are then faced with the challenge of having to bridge such phases with little electricity from renewable energies and therefore high electricity prices. Heat storage systems can help to bridge these phases, secure the heat supply and also integrate renewable energies.

Which energy storage system is best for managing seasonal demand?

Among these power-to-gas and compressed-air energy storage are considered more promising options than CSP + TES (sensible and latent thermal storage system) storage for managing seasonal demand in the future energy system.



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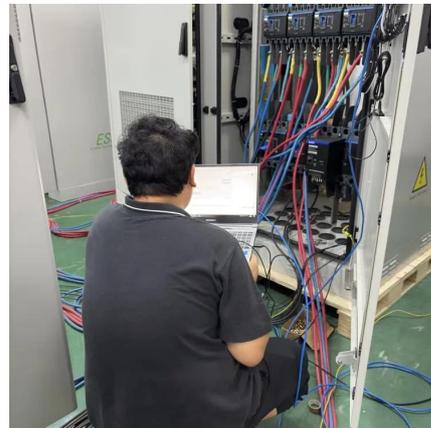
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Why Seasonal storages make it possible to meet the seasonal heating or cooling demand with renewable energy sources produced months earlier. This can be especially valuable for ...

### Heat storage systems: Key technologies for sustainable heating

...

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Seasonal thermal energy storage (STES) is defined as a system that stores thermal energy in the form of sensible heat during one seasonal period and allows for its reutilization during another ...



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### Thermal energy storage

Even surplus heat generated in summer from solar energy or deep geothermal energy can be stored. In this way, the consumption of other energies (biogas, natural gas, heating oil and ...



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