

This study pre-sents a novel system configuration with an operational strategy guided by a simple control method that uses surplus photovoltaic electricity to power an inter-seasonal heating and ...

They collect heat using thermal hot water systems on garage roofs, and pipe the surplus into 37 metre deep boreholes in the rock. The system is able to meet 97% of the community's ...

Seasonal thermal energy storage (STES), also known as inter-seasonal thermal energy storage, [1] is the storage of heat or cold for periods of up to several months. The thermal energy can be collected ...

This study examines different thermochemical thermal energy storage (TES) technologies, particularly adsorbent materials used for seasonal heat storage in solar-powered building systems.

This study integrates cascaded phase change with a cross-seasonal heat storage system aimed at achieving low-carbon heating.

The published study, titled "Decarbonising building heating and cooling: Designing a novel, inter-seasonal latent heat storage system", provides a detailed analysis of the design, ...

With inter-seasonal thermal storage solar energy, we're doing exactly that - banking summer heat to warm homes during winter's chill. This game-changing technology is rewriting the rules of renewable ...

It is proposed that the summer heat can be injected into the ground beneath each individual property in a way that prevents it from flowing out into the neighbouring properties, with the result that the heat ...

In this study, a novel system configuration for the inter-seasonal self-consumption of surplus PV energy with the use of a heat pump and ground thermal storage for heating and cooling ...

Overview
STES technologies
Conferences and organizations
Use of STES for small, passively heated buildings
Small buildings with internal STES water tanks
Use of STES in greenhouses
Annualized geo-solar
See also
Seasonal thermal energy storage (STES), also known as inter-seasonal thermal energy storage, is the storage of heat or cold for periods of up to several months. The thermal energy can be collected whenever it is available and be used whenever needed, such as in the opposing season. For example, heat from solar collectors or waste heat from air conditioning equipment can be gathered in hot months for space heating use when needed, including during winter months. Waste heat from industrial proce...

Interseasonal Heat Transfer integrates solar thermal collection in summer with heat storage in ThermalBanks

to double the efficiency and Coefficient of Performance of ground source heat pumps ...

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