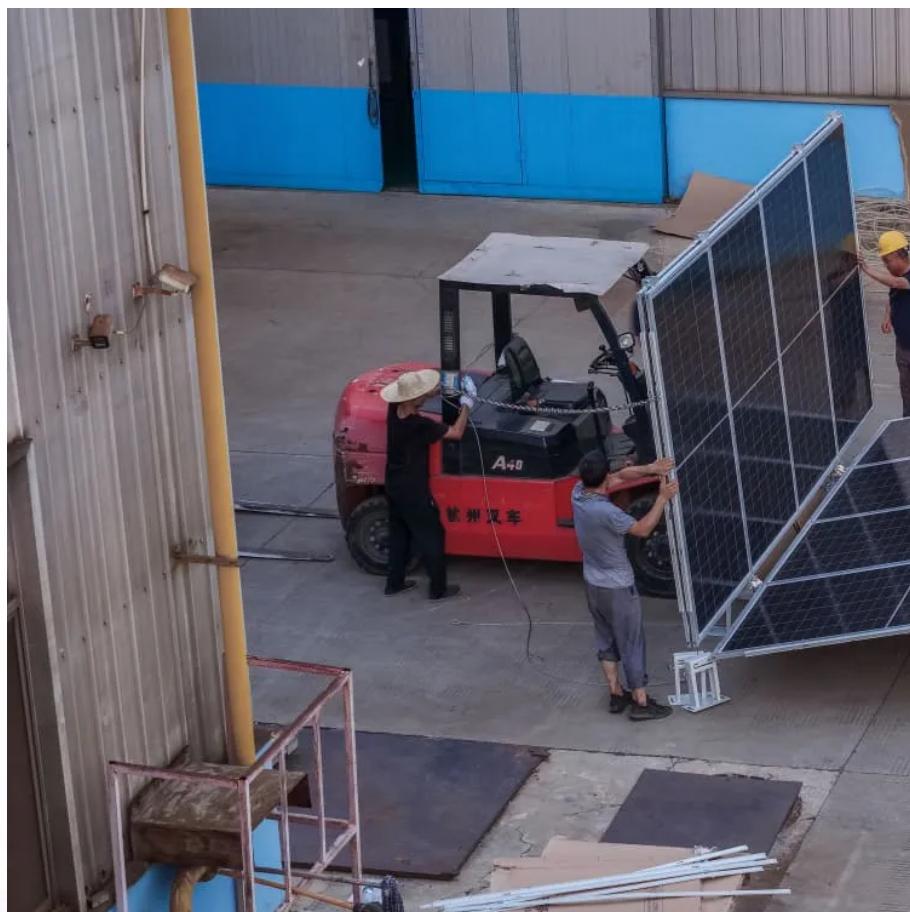




GermanSolarZA

Georgetown Mobile Energy Storage Container Three-Phase





Overview

What is mobile thermal energy storage (MTES)?

The challenges lie in the spatial and temporary mismatch of the heat demand and supply. Mobile thermal energy storage (M–TES) provides a potential solution to the challenges through for example, recovering the industrial waste heat to meet demands in remote and isolated communities.

What is the capacity of a mobile thermal energy storage device?

Conclusions This paper presents a model-based design study on a modular mobile thermal energy storage device with a capacity of approximately 400 MJ, utilizing composite phase change material modules.

Can phase change material modules be used for mobile thermal energy storage?

Modular design of phase change material modules for mobile thermal energy storage. CFD modelling-based design and validation of a 400 MJ-scale novel M–TES device. Closed-loop hot air flow of up to 400 °C utilized achieving a full charge in 10 h. 97 % discharging efficiency with a mean rate and temperature of 10 kW and 195 °C.

Can a mobile thermal energy storage device address off-site industrial waste heat recovery?

Closed-loop hot air flow of up to 400 °C utilized achieving a full charge in 10 h. 97 % discharging efficiency with a mean rate and temperature of 10 kW and 195 °C. This study concerns with a modelling led-design of a novel mobile thermal energy storage (M–TES) device aimed to address off-site industrial waste heat recovery and reuse in the UK.



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Microsoft Word

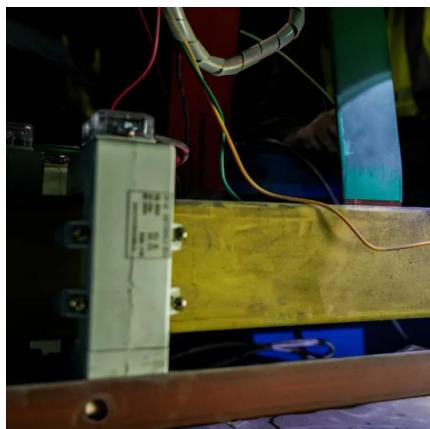
The working principle of three-phase ATES can be divided into three processes, charging process, storage process and discharging process. In the charging process, the ...

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With the ongoing development and widespread adoption of renewable energy sources, energy storage technologies have gained increasing significance. In recent years, the ...

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Abstract Mobilized thermal energy storage (M-TES) system can balance the spatial mismatch between the waste heat source and the end-user side. In this study, an ...

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