

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.

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.

Profile. Dr. Mohd. Hasan Ali is a Professor at the Electrical and Computer Engineering Department, and leads the Electric Power and Energy Systems (EPES) Laboratory of the University of Memphis, Tennessee, USA.He received his Ph.D. Degree in Electrical and Electronic Engineering from Kitami Institute of Technology, Japan, in 2004.

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Dr. Yusuf Bicer. Dr. Yusuf Bicer is an assistant professor of the Division of Sustainable Development in the College of Science and Engineering at Hamad Bin Khalifa University in ...

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Dr. Furkan Ahmad received his Bachelor of Technology (2012), Master of Technology (2015), and Ph.D. (2019) in Electrical Engineering from Aligarh Muslim University, India. He was the recipient of ...

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