

Moroccan Energy Storage Container





Overview

Implementing thermal energy storage for the recovery of massive and intermittent waste heat represents crucial milestone for energy-intensive sectors such as iron and steel industry. However, the constraints relat.

Can thermal energy storage be used to recover massive and intermittent waste heat?

Implementing thermal energy storage for the recovery of massive and intermittent waste heat represents crucial milestone for energy-intensive sectors such as iron and steel industry. However, the constraints related to current available sensible heat storage systems remain a barrier for their deployment.

How can we avoid heat loss in Moroccan steel & iron industries?

To avoid heat losses and the technically complex heat transport systems, one can recommend deploying the recovered energy for preheating applications. Generally, Moroccan steel and iron industries use electricity and/or conventional fuels to heat up the scrap and turn it into liquid steel.

What is a thermal energy storage system?

The storage system simulated in this work (Fig. 1 .) is a horizontal thermal energy storage filled with the electric arc furnace (EAF) slag as thermal energy storage material (TESM) and dry air as heat transfer fluid (HTF). Fig. 1. Schematic view of the system designed for WHR.

Can horizontal thermal energy storage tank save money?

The economic results show that implementing horizontal thermal energy storage tank has a lot of promise, with cost savings of up to 900000 dollars per year and a payback period of less than one year. The Moroccan Minister of Energy Transition and Sustainable Development



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