

The International Geothermal Association (IGA) connects the global geothermal community to advance geothermal energy worldwide through innovation, policy, and partnerships.

Findings highlight Loop Heat Pipes integration as a transformative approach for minimizing heat losses and improving reliability, supporting global clean energy goals. By advancing solar ...

Request PDF | Global advancement on experimental and thermal analysis of evacuated tube collector with and without heat pipe systems and possible applications | Sun is ...

Heat pipes can be coupled with TES systems for performance enhancement. Heat pipes have the capacity to transfer energy from lower end to higher end of heat and vice-versa and forms a ...

Solar irradiance is a widely available source that can be converted to thermal energy by utilizing solar collectors. Among various types of solar collectors, evacuated tube ...

Solar energy is one of the unlimited sustainable energy resources that can be stored for different applications by using latent heat thermal energy storage systems. These ...

Abstract Heat pipes and thermosyphons--devices of high effective thermal conductivity--have been studied for many years for enhancing the performance of solid, liquid ...

Secondary flows induced in helical-coiled pipes significantly enhance the thermal storage performance of latent heat thermal energy storage units. This paper presents a three ...

More than half of the energy consumed globally is lost as heat. Most industrial processes generate large amounts of heat. The energy produced by industrial processes but not ...

We are the leading manufacturer of pipes and related services for the world's energy industry and certain other industrial applications. We also supply pipes and tubular components for low ...

Assessing sustainable latent heat energy storage of RT 35 phase change material in double pipe heat exchangers: A study on concentric and hairpin designs

The economic problem of a clean energy heating system under a peak and valley electricity pricing system is investigated, and a pipe network energy storage system is ...

A thermosyphon (a) and heat pipe (b). Separation of the heat source and heat sink--in this case with an

intermediate heat storage "buffer" for ...

Because of this, heat pipes are employed extensively in electronic thermal management systems, solar thermal systems, space, waste heat recovery, building thermal ...

As a key component of heat transfer, heat exchangers are essential for ensuring the efficiency and stability of energy storage systems [15], [16], [17]. In the field of phase ...

Energy, Exergy and Economic (3E) analysis of evacuated tube heat pipe solar collector to promote storage energy under North African climate

According to design of ETC, it may be broadly classified into two categories: ETC with Heat pipe and ETC without heat pipe which can be further divided into with and ...

The proposed modeling method is employed to develop a fast explicit dynamic model for a large scale LHTES system, whose heat transfer is enhanced by imbedded circular finned heat pipes. ...

Source: Global Gas Infrastructure Tracker, Global Energy Monitor Note: Construction and proposed km are only shown for actively in-development projects with those statuses, and not ...

Effect of different heat pipe types/geometries (e.g., conventional, PHP, LHP, CTPTS, micro heat pipes..), Effects of different (new/alternative) working fluids in HPs, Effects of combined heat ...

The system is designed to recover and store waste thermal energy from residual fluids using heat pipes for recovery and an environmentally friendly phase change material for ...

In addition, heat pipe technology is a relatively efficient solution for the TMS for batteries, and it is important to explore the possibility of combining heat pipes with conventional ...

The combined-heat-and-power (CHP) plants play a central role in many heat-intensive energy systems, contributing for example about 10% electricity and 70% district heat ...

The growing demand for energy and the necessity to enhance the efficiency of heat exchangers have triggered numerous studies aimed at improving convective heat transfer ...

2 · Abstract Solar energy plays a vital role in the future of clean energy production; however, the functionality of such technologies might be limited due to the intermittency of the ...

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