

A three-part storage system is proposed where a phase change material (PCM) storage will be deployed for the two-phase evaporation, while concrete storage will be used for ...

In this research paper, a deep peaking-regulation system is proposed for a thermal power unit, coupled with thermal energy storage and integrated with a steam e

To enhance the flexibility of CFPPs to consume more renewable energy, this paper innovatively proposes a thermal energy storage (TES) model of the main and reheat steam ...

In this article, the commissioning of a latent-heat thermal energy storage system for the production of superheated steam in an industrial setting is discussed. This was developed, built, and ...

The energy storage system consisting of bolt-on heat exchanger, storage tank, and pumping system is presented in this work. A MATLAB code was developed to simulate the thermal energy storage system.

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Abstract The paper concentrates on the design of a sensible thermal energy storage system. In a process plant, steam is used to create vacuum in a pressure vessel.

A system and method of retrofitting and operation, for a steam/media heat exchanger communicated with a heat recovery steam generator (HRSG) and with a flow of heat storage media. The...

Direct storage of working fluids (steam and water) within coal-fired power plants may serve as a cost-effective solution. This study proposes a new coal-fired power plant configuration ...



Steam Energy Storage System Design

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