

Flexible operation of thermal power plants will become increasingly relevant in the coming years. This work evaluates the effect of integrating a steam accumulator into a 598 MW ...

This study tackles the challenge posed by the substantial growth of renewable energy installations in China's energy mix, which still predominantly relies on coal power for electricity load ...

The concepts of operational flexibility enhancement for steam turbine power plants described in the trade literature focus on thermal energy accumulation and utilization. In ...

The operational flexibility of coal-fired power plant is very important for the integration of large-scale renewable energy to the grid. In order to increase the operational ...

Highlights o A new steam/water hybrid thermal energy storage system was proposed. o Detailed design procedure of the thermal energy storage system was constructed. o The thermal energy ...

Solid particles instead of molten salt as a heat storage medium for extracted steam energy storage are essential in thermal power flexibility retrofit. This study constructs a ...

Zhao et al. [32,33] proposed several methods to activate internal thermal energy storage, specifically including throttling extraction steam of high/low pressure heaters, ...

Improving the peaking capacity of coal-fired units is imperative to ensure the stability of the power grid, thus facilitating the grid integration and popularization of large-scale ...

The increasing coupling of the electricity-steam energy system in the industry domain, called electricity-steam coupled industrial energy system (ES-IES), brings enormous ...



# Power plant steam extraction energy storage method

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