

Through building energy usage and system performance modeling, researchers show how waste heat from a nearby coal plant could be captured during summer months, stored underground, ...

Combined with the temperature transmission delay characteristics of a heat network, a two-stage optimal configuration model of DTES for UEHIES is proposed.

Long-term energy storage is expected to play a vital role in the deep decarbonization of building energy sectors, while enhancing the flexibility of buildings to withstand future climate...

The chapter presents an overview of the key issues concerning the integration of distributed and dispersed generation systems, the role of thermal energy storage (TES) systems and ...

Video: This animation simulates grid-connected and islanded energy flows among distributed energy resources at a military base--while connected to the grid, and while islanded during a grid disturbance.

Deployment of distributed energy resources (DERs), in particular distributed photovoltaics (DPV), has increased in recent years and is anticipated to continue increasing in the future (GTM 2017, ...

To help develop distributed multi-energy systems that can withstand the fluctuations introduced by future climate variations and enhance renewable energy penetration, the present study ...

This report presents the Z Federal and DNV analysis and data update for distributed generation (DG), battery storage, and combined-heat-and-power (CHP) technology and cost inputs into the U.S. ...

At present, the development of energy storage technology in China is very rapid, but there are obvious defects and deficiencies in the practical application of various energy storage ...

VPPs, which typically consist of distributed generation, storage, demand resources controlled by software, or all of them, appear well-suited to help meet electricity demand spikes.

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