



# CASE Energy storage of new thermodynamic cycle





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### [Thermoelectric energy storage: a new type of large ...](#)

Large scale energy storage becomes more and more important as the use of renewable energy resources for electricity production ...

### **Increasing the sustainability of buildings by using thermal energy storage**

Building heating and cooling energy demands can be reduced through thermal energy storage. This Review details the economic, environmental and social aspects of the ...



### **Thermoelectric energy storage: a new type of large scale energy storage**

Large scale energy storage becomes more and more important as the use of renewable energy resources for electricity production increases. This paper reviews a few ...

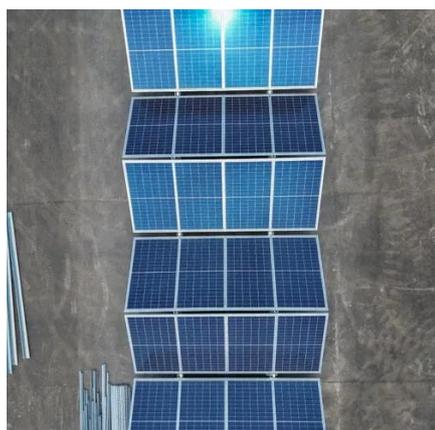
### **Conceptual design of a thermo-electrical energy storage system ...**

The synthesis and the thermodynamic optimization of a TEES system based on hot water, ice storage and transcritical CO<sub>2</sub> cycles, is discussed in two papers.



### **Current status of thermodynamic electricity storage: Principle**

Three typical thermodynamic electricity storage technologies are reviewed. Principle, structures, storage devices, demonstrations and costs are summarized. A ...



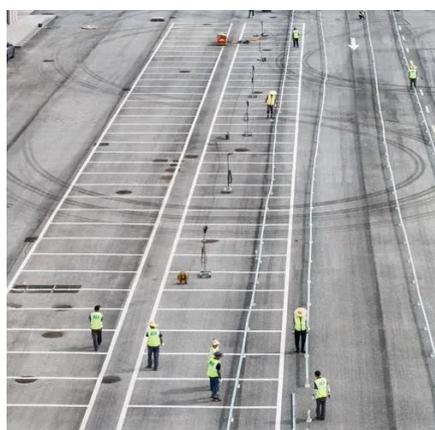
### [Thermodynamic analysis of a novel fossil-fuel-free ...](#)

Thermal energy storage and a heat pump are adopted to eliminate the need for external natural gas for heating the CO<sub>2</sub> entering ...



### [Thermodynamic investigation of latent-heat stores for ...](#)

In this paper, we explore the thermodynamic feasibility and potential of exploiting cascaded latent-heat stores in Joule-Brayton cycle-based pumped-thermal energy storage systems.



### [Pumped Thermal Energy Storage: Thermodynamics and ...](#)

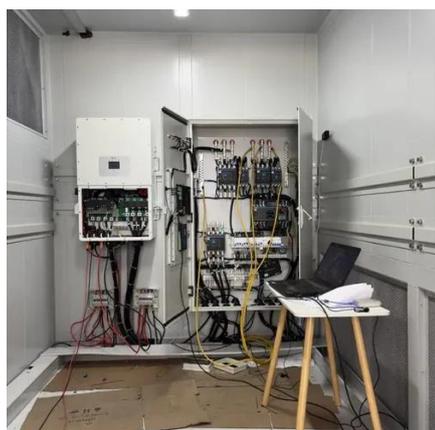


This work was authored in part by the National Renewable Energy Laboratory, operated by Alliance for Sustainable Energy, LLC, for the U.S. Department of Energy (DOE) ...



### Thermodynamic analysis of a novel fossil-fuel-free energy storage

Thermal energy storage and a heat pump are adopted to eliminate the need for external natural gas for heating the CO<sub>2</sub> entering the energy recovery turbines. We carefully ...



### Compressed-air energy storage

Compressed-air-energy storage (CAES) is a way to store energy for later use using compressed air. At a utility scale, energy generated during periods of low demand can be released during ...



### A carbon dioxide energy storage system with high-temperature ...

Carbon dioxide energy storage (CES) is an emerging compressed gas energy storage technology which offers high energy storage efficiency, flexibility in location, and low ...



### Thermodynamic assessment of a novel compressed air energy storage



Compressed air energy storage could smoothen the fluctuations of renewable electricity.



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Compressed air energy storage could smoothen the fluctuations of renewable electricity.





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