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Supplementary combustion air energy storage system

This paper presents a new type of compressed air energy storage system with ejector and combustor, which can realize energy release in short-time scale under adiabatic expansion and ...

This section reviews the broad areas that can support key technology areas, such as compressed-air storage volume, thermal energy storage and management strategies, and integration of the process ...

The utility model relates to a supplementary combustion type compressed air energy storage system based on a premixed combustion method, which belongs to the technical field of electric...

In this paper, a new type of compressed-air energy storage system with an ejector and combustor is proposed in order to realize short-timescale and long-timescale energy-release ...

Potential application trends were compiled. This paper presents a comprehensive reference for developing novel CAES systems and makes recommendations for future research and ...

To improve the round trip efficiency of the system, this paper proposes a supplementary combustion compressed air energy storage system based on adiabatic compressed air energy storage.

Principle of supplementary combustion compressed air energy storage The CAES technology consists of converting excess base load energy into stored pneumatic energy by means of a compressor for a ...

The proposed system can produce a variety of energy and products, including power, heating, cooling, and industrial gas (nitrogen), offering an effective energy solution for future ...

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