

# Compressed air energy storage system patent

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A compressed air energy storage (CAES) system utilizes compressed air stored in a cavity for electric power and cold production. During periods of excess power production, ...

Preferably the internal combustion reciprocating engine is operated at high pressure and a low pressure turbine and compressor are also employed for air compression and power ...

Expansion of the compressed air can turn an expansion turbine and produce electricity. This technology and methods for its use have been granted ...

Compressed air energy storage (CAES) can be used as long-duration storage for renewable energy-based grids. CAES systems use electrical energy to drive a compressor, ...

CROSS-REFERENCE TO RELATED APPLICATION This application claims priority to U.S. Provisional Patent Application Ser. No. 62/792,708 filed Jan. 15, 2019, and ...

WO2023228938 - COMPRESSED AIR ENERGY STORAGE METHOD. [Problem] To provide an economical compressed air energy storage (CAES) method for effectively ...

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

Patent Document 1 discloses an adiabatic compressed air energy storage (ACAES) power generation device that recovers heat from compressed air before storing the ...

A hybrid compressed air/water energy storage system is described. The system includes a series of water containers and a plurality of inflatable bladders held within each ...



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This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Compressed air energy storage-related invention ...

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