

# China Air Energy Storage System Patent



## Overview

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Patent Document 1 discloses an adiabatic compressed air energy storage (ACAES) power generation device that recovers heat from compressed air before storing the compressed air and reheats the compressed air when the stored compressed air is supplied to the turbine. The invention discloses a liquefied air energy storage system, comprising an energy storage unit, a liquefaction unit, a liquid storage unit for storing a liquid working medium, a gasification unit and an energy release unit: Heater and cooler; the energy release unit includes an expansion device. The invention relates to the technical field of energy storage, and discloses a liquefied air energy storage system which comprises an air compression unit, an air liquefaction storage unit, a liquid air gasification unit and a cold storage unit. According to the liquefied air energy storage system. Zhongchu Guoneng Technology Co. This paper leverages patent data to explore the developmental trends and research status of emerging. China has achieved a major breakthrough in compressed air energy storage (CAES) technology after an engineering team developed the world's most powerful CAES compressor, the Chinese Academy of Sciences (CAS) said on Thursday. The compressor was developed by the Institute of Engineering.

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### [119245408 Liquefied air energy storage system](#)

The invention relates to the technical field of energy storage, and discloses a liquefied air energy storage system which comprises an air compression unit, an air liquefaction storage unit, a ...

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



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The systems pioneered by the engineers at the university have now been awarded more than 100 new patents and will form the basis for more CAES systems in China and other nations that ...



## CN111305922A

Liquid air energy storage is one of technologies capable of realizing large-scale long-time energy storage, the cold storage part of the liquid air energy storage is the core of the



### [A liquefied air energy storage system](#)

Compared with the compressed air energy storage system, the liquid air energy storage system has a high energy storage density, does not require a large pressure storage container,



### [Advanced Compressed Air Energy Storage Systems: Fundamentals ...](#)

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



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