

The development of china s oil storage technology

<div class="df_qntext">How important is oil storage in China?

Large-scale underground oil storage has a great effect on national energy safety. China's oil dependency has exceeded 70% for four consecutive years,so it is necessary for China to build strategic oil storage. The salt cavern is a good medium to store oil,and it is widely used in foreign countries.

<div class="df_qntext">Should China build strategic oil storage?

The economic evaluation model is built to select the cheapest oil storage methods. Large-scale underground oil storage has a great effect on national energy safety. China's oil dependency has exceeded 70% for four consecutive years,so it is necessary for China to build strategic oil storage.

<div class="df_qntext">How did China develop oil and gas production engineering technology?

In China,the development of oil and gas production engineering technology mainly experienced four stages: (1) The introduction and learning stage. In the early days of the founding of the People's Republic of China,the foundation of the countryâEUR(TM)s oil industry was still very weak.

<div class="df_qntext">Is China a good place to store oil?

It is internationally recognized as an excellent site for underground strategic oil reservesand holds a prominent position in oil storage [11,12]. China's current methods of using surface storage tanks and underground water-sealed caverns for oil reserves are much more expensive than salt cavern storage.

<div class="df_qntext">Why is China's offshore oil and gas equipment-manufacturing industry catching up?

China's offshore oil and gas equipment-manufacturing industry has experienced phenomenal technological catch-up, followed by the development of capacity in both independent innovation and the relevant industrial supply chain. This study aims to reveal the mechanisms behind this phenomenon.

<div class="df_qntext">How oil is stored in the world?

World's oil distribution and oil consumption (Data resource). Large-scale oil storage needs good storage mediums,the world's main ways of storing oil include storage tanks,underground rock caverns,and salt caverns[.,].

After defining the scope and orientation of the emerging energy technology industry, this paper analyzes the current status and development trends of the emerging energy technology industry in China and ...

Energy storage technology is one of the critical supporting technologies to achieve carbon neutrality target. However, the investment in energy storage technology in China faces policy ...

Emerging trends in digitization, intelligence, and low-carbon transition have significantly affected China's oil

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and gas pipeline development strategies. Emerging technology has resulted in ...

Department of Science and Technology for Social Development of Ministry of Science and Technology, the Administrative Center for China's Agenda 21 Agenda 21. Roadmap for carbon capture, utilization ...

This paper summarizes the new research developments and technologies of oil & gas storage and transportation in China systematically and predicts further Chinese technology ...

This paper establishes three major strategic directions and implementation paths, including oil stabilization and gas enhancement, digital transformation, and green and low-carbon ...

The development needs, difficulties, and suggestions for China's deep ground energy storage safety and emergency support technology were revealed, and a technical framework for the full life cycle safety ...

For this reason, this paper will concentrate on China's energy storage industry. First, it summarizes the developing status of energy storage industry in China. Then, this paper analyzes the ...

Abstract This paper systematically presents the established technologies and field applications with respect to research and engineering practice of CO₂ capture, enhanced oil ...

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In recent years, China has accelerated the development of CCUS (CO₂ capture, utilization and storage) technology and started construction of the first megaton-scale CCS-EOR (CO ...

In this work, the development status of China's energy storage industry is analyzed from the perspectives of technology, application and policy, by referring to a large number of statistical ...

This study provides a detailed overview of the latest CAES development in China, including feasibility analysis, air storage options for CAES plants, and pilot CAES projects. According ...

Abstract Offshore oil and gas equipment is crucial for developing offshore oil and gas and strengthening the marine power of a country. In recent years, China's offshore oil and gas equipment industry has ...

Finally, the future development trend of CAES technology was analyzed. </sec></sec>
Result The results show that regenerative CAES is currently the mainstream technology in

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Starting from the development of Compressed Air Energy Storage (CAES) technology, the site selection of CAES in depleted gas and oil reservoirs, the evolution mechanism of reservoir dynamic sealing, ...

Therefore, this paper primarily discusses the current research status of salt cavern energy storage technology, with a focus on analyzing its classifications, advantages, disadvantages, ...

Remarkable achievements have been attained in the digital transformation and intelligent construction of China's underground gas storage (UGS) facilities, shown as follows. (1)Key ...

Abstract Carbon dioxide capture, EOR-utilization and storage (CCUS-EOR) are the most practical and feasible large-scale carbon reduction technologies, and also the key technologies ...

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