

Which oilfields are converting depleted gas reservoirs into energy storage?

Domestic oilfield enterprises such as Shengli Oilfield, Daqing Oilfield, Qinghai Oilfield, and Jilin Oilfield have already deployed plans to convert depleted gas reservoirs into energy storage and have conducted preliminary exploration.

Should energy storage be used in depleted oil and gas reservoirs?

Utilizing energy storage in depleted oil and gas reservoirs can improve productivity while reducing power costs and is one of the best ways to achieve synergistic development of "Carbon Peak-Carbon Neutral" and "Underground Resource Utilization".

What is the energy consumption in oilfields?

The energy consumption in oilfields is relatively high, except for the drilling, energy is required for crude oil transport, acid gas treatment, and gas dehydration. However, with the low level of energy management strategy in some of the oilfields, the energy utilisation efficiency has great potential to be improved.

What is oil & gas transport & storage?

The oil & gas transport and storage (OGTS) engineering, from the upstream of gathering and processing in the oil & gas fields, to the midstream long-distance pipelines, and the downstream tanks and LNG terminals, while using supply chains to connect each part, is exploring its way to reduce energy consumption and carbon footprints.

What is the importance of depleted oil & gas reservoirs?

The development of depleted oil and gas type reservoirs is of great significance to the change of energy structure and the promotion of the development of energy technology, and also lays a solid foundation for the construction and development of smart grids, energy internet and smart cities (Feng 2023).

Why should oil and gas be processed?

For the processing system, oil and gas should be processed to make commercial products. The energy consumption in oilfields is relatively high, except for the drilling, energy is required for crude oil transport, acid gas treatment, and gas dehydration.



Oilfield production and energy storage



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