

**JH Solar**

# Changqing oilfield energy storage



## Overview

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The project captures the CO<sub>2</sub> emissions from the largest single-unit modern coal-to-liquid project with a capacity of 4 million tons/year, and then conducts enhanced oil recovery (EOR) and sequestration at the largest domestic oil and gas production base, the Changqing Oilfield, achieving green carbon reduction cooperation between modern coal chemical industry and large-scale oil and gas field development. Where is Changqing oilfield located?

Changqing Oilfield is located in the hinterland of the Loess Plateau, the Gobi Desert and the edge of the Mu Us Desert, with scarce water resources and fragile ecology.

What is the scope of work for Changqing Oilfield?

The scope of work for PetroChina Changqing Oilfield Company includes: 1 Union Station, 1 Oil and gas interchange Station, 5 metering stations, 22 single wells, and a main pipeline over more than 200 kilometers.

What is Changqing oilfield doing to protect the environment?

As of 2018, Changqing Oilfield had formed five models for loess plateau, desert and other conditions to protect the ecology, and built nine carbon sink bases including Ansai and Longdong, saving 46,000 tons of TCE, 0.441 million cubic meters of water and adding 146.7 hectares of green land.

How much natural gas does Changqing produce?

The Changqing field produces about one-fourth of China's total natural gas output, with the gas being sent to more than 40 cities through 10 gas pipelines, which meets the demand of nearly 400 million people.

## Changqing oilfield energy storage



### China's largest CCUS Demonstrative Project's Spherical Tanks ...

The CCUS Demonstration Project consists of two parts: the "Ningdong Base Carbon Source Capture Project," managed by China Energy's Ningxia Coal Industry, and the ...

### Changqing Oilfield: Light up "Science and technology Tree" for ...

Release time:2024-11-15 As of October 31, 1,750 Wells had been drilled and 997 Wells had been put into operation in the production capacity construction of the self-operating area of ...



### Changqing Oilfield: Light up Science and technology Tree for ...

Changqing Oilfield takes technological innovation as the power source, timely adjusts exploration ideas, deeply promotes a new round of prospecting breakthrough strategic actions, ...

### Cumulative gas output of China's largest oil and ...

Aerial photo taken on June 15, 2022 shows the PetroChina Liaohe Oilfield gas storage group in

Panjin, northeast China's Liaoning Province.



## changqing oilfield energy storage company factory operation

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The power grid of Changqing Oilfield will commit efforts to three areas at the next stage to improve its integrated adjustment ability -- acceleration of source-grid-load-storage integration, ...



## CCS/CCUS in Low-Carbon Development

In the CCS/CCUS demonstration project of Changqing Oilfield in Dingbian, Shaanxi Province, a 100,000-ton injection station for comprehensive testing has been completed to provide a ...

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The oilfield promoted the process of recovering gas from testing gas wells and the technology to collect and recover a large quantity of gas from shale oil, and trialed multi-energy ...



### Progress and prospect of carbon dioxide capture, utilization and

The development history of carbon capture, utilization and storage for enhanced oil recovery (CCUS-EOR) in China is comprehensively reviewed, which consists of three ...



### China's largest oil field achieves historic milestone

5 ???· Changqing oilfield, China's largest oil-and-gas field, achieved a historic milestone recently by producing a cumulative total of 1 billion metric tons of oil and gas equivalent, ...



### Powering Oilfields with Energy Storage: HyperStrong's Smart

...

HyperStrong, in collaboration with Wellplus New Energy Technology, has successfully deployed an advanced ESS solution for an oilfield fracturing platform in ...



## Output of China's largest gas field surpasses 600 ...

China's largest oil and gas field, the Changqing oilfield, has produced over 600 billion cubic meters of natural gas, setting a new record, the country's major oil and gas producer and distributor PetroChina ...



## China Petroleum Changqing Oilfield System Planning Medium

Changqing Oilfield will serve as the backbone of energy supply and improve the sustainable supply capacity of oil and gas with high quality.

## Hyperstrong lights up oilfield operations

Storage industry powerhouse Hyperstrong has unveiled a state-of-the-art energy storage system at PetroChina's sprawling Changqing oilfield--making it one of China's largest ...



## Changqing Oilfield: Light up "Science and technology Tree" for ...

In order to ensure sufficient supply of natural gas, Changqing Oilfield has always taken natural gas production as an important mission, given full play to its resources ...

## Changqing Oilfield

Changqing Oilfield. On December 27 of that year, the oilfield's output exceeded 60 to magnificent historical and natural This year, in life. belongs oil technology low permeability picture of the ...



## **Changqing oilfield energy storage company factory operation**

What does Changqing oilfield stand for? PetroChina Changqing Oilfield Company (Changqing Oilfield) recently achieved a milestone, marking a cumulative production of over 1 billion tons of ...

## **Powering Oilfields with Energy Storage: ...**

Oilfield operations often face significant energy challenges, particularly in remote locations where grid reliability is poor, power fluctuations disrupt production, and diesel generators drive up



## **Changqing Oilfield: Light up Science and technology Tree for ...**

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## Changqing Oilfield's cumulative production tops 1 billion tons of oil

PetroChina Changqing Oilfield Company (Changqing Oilfield) recently achieved a milestone, marking a cumulative production of over 1 billion tons of oil equivalent. Its ...



## China's largest oil field achieves historic milestone

Changqing oilfield, China's largest oil-and-gas field, achieved a historic milestone recently by producing a cumulative total of 1 billion metric tons of oil and gas equivalent, according to

## Changqing Oilfield: Building Intelligent Wellsites , Huawei Enterprise

o Intelligent oilfield production reduces energy consumption and costs without compromising production efficiency. The synergy between edge computing and cloud computing allows for ...



## Frontiers , Challenge and strategy for the ...

Carbon capture, utilization, and storage (CCUS) refers to the separation of carbon dioxide from industrial processes, energy utilization, or the atmosphere, and it also refers to the use of carbon dioxide or the ...

## Carbon capture, utilization and storage (CCUS) in oil and gas

Carbon capture, utilization, and storage (CCUS) technologies are crucial strategies in mitigating the climate change challenge. Geological sequestrati...



## Ningxia's 3 million tons/year CCUS demonstration ...

The 3 million tons CCUS demonstration project consists of two parts: the carbon source capture project of the Ningdong base and the Ningxia oil flooding and storage project of the Changqing oil area. Qing ...

## Optimization of CO2 flooding under dual goals of oil recovery and ...

Optimization of CO2 flooding under dual goals of oil recovery and CO2 storage: Numerical case studies of the first-ever CCUS pilot in Changqing oilfield



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## Hyperstrong lights up oilfield operations

Storage industry powerhouse Hyperstrong has unveiled a state-of-the-art energy storage system at PetroChina's sprawling Changqing oilfield -- making it one of China's largest ...

## Evaluation of CO2 enhanced oil recovery and CO2 storage ...

Science and Technology for Energy Transition 78, 3 (2023) Regular Article Evaluation of CO<sub>2</sub> enhanced oil recovery and CO<sub>2</sub> storage potential in oil reservoirs of ...



## Saline-alkaliland transformed to an "underground forest"

It is a green and low-carbon demonstration project jointly built by the Ningxia Hui Autonomous Region Government, PetroChina Changqing Oilfield Company, and Ningxia Coal Industry Co., ...

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