

# Sinopec flywheel energy storage drilling rig

After years of dedicated research and efforts, we had successfully developed the high-power magnetic levitation flywheel energy storage technology with core intellectual property rights, which has been applied in the civil field, and realized the large-scale ...

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Sinopec Corp. is one of the largest integrated energy and chemical companies in China. Its principal operations include the exploration and production, pipeline transportation and sale of petroleum and natural gas; the production, sale, storage and transportation of refinery products, petrochemical products, coal chemical products, synthetic ...

In 2013, SSC made a record of Sinopec's largest oversea drilling service project in Saudi Arabia where it signed a 5+2 term contract of 14 drilling rigs with contract value at 1.77 billion USD. In 2014, SSC made a new record of spudding 5 rigs for a single month, accumulatively saving 111 days before drilling and was awarded by Saudi Aramco. ...

A magnetically suspended energy storage flywheel named as FW15-B with very low power loss, has been developed which employs new kinds of permanent magnet-biased radial and axial ...

An electric drilling rig/workover rig microgrid system based on flywheel energy storage technology, comprising a power system (1), wherein the power system (1) is ...

Last year, after 279 days of drilling, the drill broke the 10,000-meter mark, per Chinese media reports, making the well the deepest ever drilled in the country. By Tsvetana Paraskova for Oilprice

made for Maersk Drilling and this project. The first flywheel is designed and built in 1:3 power ratio compared to the full scale version. WUP is testing a new and advanced converter and inverter technology, which allows us to use the strengths from a flywheel reaching the required 9MJ's of power per flywheel that has been specified by the ...

Main export categories include drilling rigs, work over rigs and pumping units; OCTG, line pipes, and oil tank plates; static equipments such as reactors, heat exchangers; rotary equipments like compressors, pumps, turbines and generators have been exported to the Middle East, South America, Canada, Russia, India and other countries and regions ...

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[Sinopec newly signed Kuwait Drilling Rig Project] Recently, Sinopec International Petroleum Engineering Co., Ltd., a wholly-owned subsidiary of Sinopec Petroleum Engineering Services Co., Ltd., won the bid for 14 development well drilling and workover rigs and 1 deep well drilling rig projects of Kuwait Petroleum Corporation (KOC). The contract period is 5+1 years, and the ...

Caly system zostanie 99 X. Dai, K. Wei, X. Zhang, Analysis of the Peak Load Leveling Mode of a Hybrid Power System with Flywheel Energy Storage in Oil Drilling Rig, Energies, 12, 2019, 606; doi ...

Online balancing of the rotor-bearing unit of the flywheel energy storage system ZHANG Chaoping 1, DAI Xingjian 2, MENG Xiangyong 1, LI Shengzhong 1, FAN Jun 1 1 Zhongyuan Petroleum Engineering Company Limited,SINOPEC,Puyang 457001,Henan,China; 2 Tsinghua University,Beijing 100084,China

PetroReconcavo has already mobilised a drilling rig ahead of the late April 2024 spud. SOCAR AQS has completed the drilling of three wells at the Buzovna-Mashtaga oil field operated by its subsidiary Azneft in Azerbaijan. ...

As the trading arm of SINOPEC, with the rapid development of Chinese equipment manufacturing industry, SINOPEC International are exporting products from SINOPEC manufactures such as Drilling Rigs, Pipes, Towers, Reactors and Heat Exchangers, and other products fabricated by our strategic partners and jointly developed by SINOPEC International.

Analysis of the Peak Load Leveling Mode of a Hybrid Power System with Flywheel Energy Storage in Oil Drilling Rig . The load frequently oscillates in large amplitude like pulses when ...

Led drilling and abandonment projects through stage gate approval processes with a focus on cost reduction, new technology and innovation; Led a rig selection process that resulted in the award of a significant modular rig and engineering services contract

The flywheel energy storage system used in the drilling rig can achieve load shifting. It is possible to stabilize the impact of the mutation load power units, which is of great significance to solve this problem.

Analysis of the Peak Load Leveling Mode of a Hybrid Power System with Flywheel Energy Storage in Oil Drilling Energies IF 2.702) Pub Date : 2019-02-14, DOI: 10.3390/en12040606 ...

2025-2029 Edition Out Now Global land drilling rig demand to increase by 18% over the next five years compared to 2020-2024 . The latest edition of Westwood's World Land Drilling Rig Market Forecast presents a ...

An alloy steel flywheel with 60 MJ storage energy at 2700 r/min rated speed was designed in this study, in

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order to achieve MW-level power output in the flywheel energy ...

Sinopec is all about green development in Hong Kong SAR! In 1Q 2025, over 70 volunteers from 8 Sinopec subsidiaries in Hong Kong hit up quarterly environmental campaigns in 7 country parks, including Lion Rock and Clear Water Bay, etc. Dressed in white Sinopec Charity T-shirts, we collected plastic wastes along the mountain trails to help restore the natural beauty of these ...

The load in trip operation of the drilling rig has the pulse characteristics. In order to improve the transmission characteristics of drilling rig and reduce power configuration, a power output peak-modulating operation scheme using flywheel energy storage and peak-modulating motor is proposed. Flywheel energy storage can be used to store excess energy through the flywheel ...

typical drilling rigs compared with the power plant with Flywheel Storage Unit which has an important aid in avoiding power interruption during DP (Dynamic Positioning) operation. The ...

On an offshore rig, the drilling drawworks places the heaviest burden on the rig's energy supply by causing a wide variation in energy consumption over large power peaks. Typically, six to ...

In the production, the mutation load which oil rig bears will increase the energy consumption of the power unit, even damage its bearings. Flywheel energy storage system (FESS) has an ability ...

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A new solution for the pulse load problem is to add a motor/generator set and a flywheel energy storage (FES) unit to the diesel engine mechanical drive system to form a h...

Article &quot;Design of Drilling Rig's Load-levelling System Using Flywheel Energy Storage&quot;  
Detailed information of the J-GLOBAL is an information service managed by the Japan Science and Technology Agency (hereinafter referred to as &quot;JST&quot;). It provides free access to ...

We introduced the hybrid power concept into the drilling rig for petroleum and gas exploration for the first time. Flywheels are electro-mechanical storage devices that store ...

The load frequently oscillates in large amplitude like pulses when the draw-works lift or lower in the oil well drilling rig, and that makes the diesel engine run uneconomically. A new solution for the pulse load problem is to ...

Energy storage systems are an important component of the energy transition, which is currently planned and

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launched in most of the developed and developing countries. The article outlines development of an electric energy storage system for drilling based on electric-chemical generators. Description and generalization are given for the main objectives for this ...

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