

What is CCUS in China Petroleum & Chemical Corporation (Sinopec)?

The R&D and demonstration of CCUS in China Petroleum & Chemical Corporation (Sinopec) are summarized, including carbon capture, carbon transport, CO₂ enhanced energy recovery (including oil, gas, and water, etc.), and comprehensive utilization of CO₂.

Is Sinopec a green company?

In August 2011, Sinopec officially integrated green and low-carbon development into its corporate strategy. In 2013, it launched the Clean Water and Blue Sky Initiative and invested RMB 20.92 billion in the environment-friendly treatment of existing production facilities.

How Sinopec has developed CCUS Technology?

Sinopec has established multi-aspect, multi-level, and full-chain CCUS technological systems, developed various CO₂ capture solvents with low cost and low energy consumption, and formed CO₂ capture technologies for different industrial gas sources. The long-distance transport technologies of supercritical CO₂ have been established.

What are the characteristics of Continental Oil reservoirs in China?

Continental oil reservoirs in China are characterized by high heterogeneity and well-developed fractures, where gas channeling generally occurs in the early stage under CO₂ flooding. The descriptions of the gas channeling degree are yet to be unified.

What is CCUS industrialization path from Sinopec's perspective?

Finally, a CCUS industrialization path from Sinopec's perspective is suggested, using CO₂-EOR as the major means and CO₂-EWR, CO₂-driven enhanced gas recovery (CO₂-EGR) and other utilization methods as important supplementary means.

1. Overview of global CCUS development

The largest daily peak shaving capacity of the Wei 11 gas storage facility is 5 million cubic meters, which can meet the gas demands of 10 million households every day. In addition, Sinopec will ...

"The collaboration will focus on sustainable growth in the areas of commodity and specialty chemicals, crude oil and liquefied natural gas (LNG) trading, lubricants, and digital solutions as well as drive decarbonization efforts for various industries such as transportation, shipping, manufacturing, aviation and power, thus enabling them to reduce their carbon ...

China's second largest energy company Sinopec completed a new carbon capture storage (CCS) project in eastern China's Jiangsu province, as part of its larger plan to implement a CCS-based ...

Shaping a Bright Future with Innovation, Building a Better Life with Responsibility. With promoting

low-carbon transformation of global energy as its goal, Sinopec is committed to leading the future of energy and chemical industry with innovation, shouldering its responsibilities to refuel for a better life, and working with all stakeholders to build a better life.

Energy Storage Energy Efficiency New Energy Vehicles Energy Economy Climate Change Biomass Energy. ... (Sinopec) through the Oil, Gas and New Energy Branch have approved the pilot projects for geothermal heating in the Xianghe County and Dachang Hui Autonomous County of the Dagang Oilfield in China. If fully implemented, The two geothermal ...

China's Sinopec Corp has struck a high flow of oil and gas in an offshore exploration well in the Beibu Gulf of the South China Sea, it said on Wednesday. The well, Hai-3, a rare slanted well with a drilling depth of 4,600 meters (2.86 miles), test

5870 Tony Zhang et al. / Energy Procedia 114 (2017) 5869 - 5873 an important emission reduction technology in its policy documents [3, 4]. Sinopec, as China's largest oil refiner and a Global

China's state-owned oil and gas company, Sinopec, has signed a deal with Algeria's national oil company, Sonatrach, for the construction of a \$179 million Liquefied Natural Gas (LNG) storage tank in Algeria. Signed last week, the deal will see Sinopec building an LNG tank with a capacity of 150 000.

Sinopec has a history of more than 50 years in the R& D of CO₂ capture technologies. The previous generation of amino solvent features high energy consumption and high renewable energy consumption, and Sinopec has developed a new type of amino solvent, namely the methane sulfonic acid (MSA), using molecular structure design.

Fuel oil storage tank insulation project: They recently completed a successful winter study from October 2012 to March 2013 with Nansulate(TM) High Heat coating for insulation and corrosion control. Sinopec was looking for a better solution than the rock wool insulation they were using and one that would prevent corrosion, which was being caused ...

Oil & Gas Coal Thermal Power Solar Wind Power Hydropower Nuclear Power Power Grid Hydrogen Geothermal. Energy Storage Energy Efficiency New Energy Vehicles Energy Economy Climate Change Biomass Energy. ... CTO of ACWA Power, and Han Weiguo, President of SINOPEC GPEC. In related news, this June, ACWA Power entered an ...

for refined oil products in China Gas stations over 30,000 Chemicals No.1 ethylene producer in China, No.3 globally Annual ethylene output over 13 million tonnes Trading World's leading crude oil trader Sinopec Sinopec has many advantages of engaging in all stages of the CCUS process.

In May 2023, Sinopec entered the "Long Term Contract for Importation, Storage, Distribution and Sale of Petroleum Products in Sri Lanka" with Ministry of Power and Energy (MOPE) in Sri Lanka. As per the

contract, MOPE shall deliver the license to import, store, supply, distribute, and sell Petroleum Products to Identified Fuel Stations to the ...

The carbon dioxide captured by Sinopec Qilu will be transported to Shengli Oilfield for further displacement and storage via green transport mode, achieving an integrated ...

French energy company TotalEnergies and China Petroleum and Chemical Corporation (SINOPEC) have signed a strategic cooperation agreement to deepen their collaboration in low-carbon energies. Illustration; Source: TotalEnergies The agreement was signed on the occasion of the state visit to France by the President of the People's Republic of ...

Arabian Post - Sinopec, one of China's leading oil and gas companies, has embarked on a comprehensive strategy aimed at reducing its carbon footprint while enhancing operational efficiency through innovation and collaboration with educational institutions. This initiative aligns with China's broader goals of achieving carbon neutrality by 2060, marking a pivotal shift in the ...

China Petroleum & Chemical Corporation (Sinopec) has commissioned the largest underground natural gas storage cluster with 10.03 billion cubic metres (bcm) capacity ...

China Petroleum & Chemical Corporation (Sinopec) has revealed that the world's largest LNG storage tank was put into operation at its Qingdao LNG receiving terminal in China.

Serbia's oil and gas company Naftna Industrija Srbije (NIS), a subsidiary of Gazprom, has signed a memorandum of scientific and technological cooperation with China's Sinopec Petroleum Engineering Corporation, part of one of the world's largest oil and gas companies. This agreement, formalized during a recent visit from a Chinese delegation, ...

The two oil and gas companies agreed to cooperate in the field of green energy and carbon capture, utilization and storage (CCUS) projects, NIS said. The memorandum was signed during the visit of the Chinese delegation to NIS. The two companies intend to establish scientific and technological cooperation in areas of mutual interest.

Workers change the billboard at a Sinopec gas station in Fuzhou, Fujian province. [Photo provided to China Daily] Construction began on Tuesday on the world's largest green hydrogen project, generated from solar energy, in the Xinjiang Uygur autonomous region, to aid China's move toward sustainable energy, said its operator China Petroleum and Chemical ...

Sinopec's two LNG terminals in Qingdao and Tianjin, with seven and nine storage tanks respectively, have a total of 1.68 billion cubic meters of storage capacity. Looking ahead, Sinopec aims to build more natural gas storage depots and LNG receiving terminals in China to further strengthen the natural gas storage and peak gas consumption ...

Sinopec Daylight: Formed following the acquisition of Daylight Energy, Sinopec Daylight is the operated portion of Sinopec Canada. Sinopec Daylight is a Montney focused business, with core assets in the Wapiti area south of Grande Prairie. Wapiti lands include 137,000 acres of Montney rights in the over-pressured, liquids rich window.

The North Field South expansion project represents a significant step forward in the global energy sector and reflects the commitment of QatarEnergy and Sinopec to sustainable energy development. This partnership is poised to play a pivotal role in meeting the rising global demand for LNG and enhancing the energy security of China, while ...

The carbon dioxide captured by Sinopec Qilu will be transported to Shengli Oilfield for further displacement and storage via green transport mode, achieving an integrated application of carbon ...

On the occasion of the state visit to France by the President of the People's Republic of China, TotalEnergies, represented by Patrick Pouyanné, Chairman and CEO, and China Petroleum and Chemical Corporation ("SINOPEC"), represented by Ma Yongsheng, Chairman, signed a strategic cooperation agreement to deepen their collaboration, notably in ...

Company Profile of Sinopec Fuel Oil Lanka. ... and leased a tank farm with a capacity of 74,000 cubic meters located in HIPG energy center. On April 7, 2020, Oil Depot of SFOL in Hambantota successfully achieved the first 25,000 tons storage of low-sulfur tanker fuel products, marking the successful entry of Sinopec's ship bunkering business ...

Energy Storage Energy Efficiency New Energy Vehicles Energy Economy Climate Change Biomass Energy. ... signed at the China International Import Expo in Shanghai, is the third long-term supply deal between Sinopec and Qatar Energy, the world's top LNG supplier. ... IEA to Expedite 2025 Oil Demand Forecast, OPEC Also Moves Early. 3

Sinopec's Zhongyuan gas storage cluster now has three blocks, the Wen 23, ... Oil & Energy. Utilities. Corporate Expansion. New Products & Services. News Releases in Similar Topics

Sinopec did not respond to a request for comment. Storage fees to lease onshore tanks in Singapore reached S\$7 (\$5.15) per cubic metre in November for new contracts, about \$1 more than floating storage, according to the sources. Gunvor's move occurs against a backdrop of steepening backwardation in the fuel oil market structure.

November 11, 2023 [Reuters]- Global energy trader Gunvor (GGL.UL) is exiting fuel oil storage at the PetroSeraya terminal in the Asian oil hub of Singapore, with a Sinopec unit set to take over the space, several market sources told Reuters. The Geneva-based trader's exit comes after more than a decade of storing fuel oil at the terminal on Pulau Seraya, part of Singapore's ...

PSTC has 6132.24 km pipeline in total length, the total oil tank capacity is 25.33 million and a transmission capacity of crude oil is 141.7 million tons per year. PSTC takes the charge of transporting crude oil from five oil fields, Shengli, Zhongyuan, Henan, Jiangnan as well as import crude oil.

Malaysia's energy giant Petronas has entered into a memorandum of understanding (MoU) with China Petrochemical Corporation (Sinopec) to look into options for progressing the energy value chain, fostering security of supply while accelerating the low-carbon shift. MoU signing ceremony; Source: Petronas

China Petrochemical Corporation (the Company) was established in July 1998 on the basis of the former China Petrochemical Corporation, a move by the central government to strategically restructure the petroleum and petrochemical industry was further incorporated as a limited liability corporation in August 2018. A super large petroleum and petrochemical group, the ...

Notably, Sinopec is contemplating an investment in the refining facility to expand its sales in the world's third-largest bunker fuel hub. Situated in the port of Fujairah, the facility can process 65,000 barrels per day of crude and also sell over 30 million barrels of low-sulphur fuel oil to the shipping industry annually, according to a report.

(MENAFN) China's oil giant Sinopec and Singapore-based Concord Energy will join hands in an oil storage facility project in the UAE port of Fujairah, Reuters reported. The need to build oil storage facilities in the Gulf state, as an alternative way to skip the Strait of Hormuz, increased as tensions rise over Iran's controversial nuclear ...

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