

Sichuan energy gas storage peak

Is the Sichuan Basin a good place to find shale gas?

The Sichuan Basin is the main shale gas exploration and development region in China, where mid-shallow reservoirs have been effectively developed, and deep shale gas resources are great in potential but very difficult to recover.

Does China have a peak-shaving demand for gas storage?

Moreover, the total capacity of China's UGS is far below the world's average. Therefore, in order to meet the ever-increasing demand for peak load shaving of NGM, China must accelerate the pace of gas storage construction. In this study, we perform a comprehensive review of the peak-shaving demand of the NGM and the UGS development in China.

Which Sichuan Basin has the most gas resources?

The central Sichuan paleo-uplift, $6.5 \times 10^4 \text{ km}^2$, lies in the central-west of the Sichuan Basin and has the most abundant conventional gas resources in the basin. Owing to the high-graded source rocks in the Sinian-Lower Paleozoic and 4 suits of porous (porous-vuggy) reservoirs, the paleo-uplift contains gas resources of more than $5 \times 10^{12} \text{ m}^3$.

Should China strengthen the construction of gas storage facilities?

In conclusion, China should strengthen the construction of gas storage facilities to mitigate the peak-shaving demand and to satisfy the strategic reservation. The typical peak load regulating measures of natural gas include underground gas storage (UGS), liquefied natural gas (LNG) receiving station and gas field adjustment [34,35].

Can natural gas chemical industry clusters be built in Sichuan-Chongqing area?

Construction of natural gas chemical industry clusters in the Sichuan-Chongqing area: necessity, feasibility and implementation measures *Nat Gas Ind*, 41(6)(2021), pp. 111-119 View in Scopus Google Scholar LiyangZhu, BoXiong, ZhijunWang, et al.

A realistic study is carried out for the future hybrid energy transmission in Sichuan Province (the province in China with the richest SG storage). For a hybrid energy transmission case (5 GW fuel ...

In order to further promote the large-scale efficient development of shale gas in China, under the new situation of global COVID-19 spread and domestic "carbon peak and ...

In today's Caixin energy news wrap: China National Nuclear Corp. and CATL units will set up a 50-50 new-energy joint venture; Guangdong vows urban natural gas coverage will top 70% by 2025; China's National Energy Administration studies the impact of rising solar module prices and the chip shortage on the photovoltaic industry.

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Shale gas exploration in the Sichuan Basin, especially the southern part, has undergone four stages: layer selection (2006-2009), pilot test (2009-2014), demonstrative construction (2014-2016) and large-scale exploitation (2017-present) [6]. To date, the core technology for exploring and developing shale gas buried above 3500 m is established, and ...

[Sichuan Suining Gas Storage and Peak Shaving Base Project started] On April 23, the Suining gas storage peak shaving project invested and constructed by Sichuan Energy Investment Group started. The project covers an area of 292 acres and has a total investment of about 1 billion yuan. It will build 1 30,000 water cubic LNG storage tank, 1 ...

The operator's Xiangguosi (XGS) gasfield facility began underground gas storage (UGS) operations in a depleted gas field in southwest China in 2013. Following this initial period, the site was reassessed to increase deliverability safely during the winter months to meet future peak gas demand.

DOI: 10.1016/j.enpol.2022.112913 Corpus ID: 247720435; China's natural gas production peak and energy return on investment (EROI): From the perspective of energy security @article{Xie2022ChinasNG, title={China's natural gas production peak and energy return on investment (EROI): From the perspective of energy security}, author={Minghua Xie and ...

The gas famine in China reveals problems related to the phenomenon of short slab do in natural gas storage and peak shaving, e.g., long-existing contradiction between demand and supply.

They will also jointly build a gas storage and peak regulating base of 10 billion cubic meters in Southwest China to improve the reserve capacity of refined oil products. Meanwhile, Sichuan and Chongqing will jointly build a green transport corridor to promote the clean use of fossil energy.

Figure 2() shows the natural gas consumption structure of China is relatively stable from 2018 to 2019. 15 Among them, natural gas consumption for city life and power generation have obvious seasonality, while industrial and chemical consumption do not have seasonality. Part of the gas-fired power generation is used in the peak-shaving power station of ...

WeChat official account for the Sichuan Energy Internet Research Institute, Tsinghua University ... Energy storage is one of the key technologies for building a new power system and achieving the goal of "carbon peak and carbon neutrality". ... Salt cavern compressed air energy storage is a large-capacity physical energy storage ...

The types of gas storage include salt cavern, depleted oil and gas reservoir and aquifer. The surrounding rock

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of salt cavern has good creep property and the high salt content can inhibit some microorganisms, but the suitable sites are few and the gas storage is limited. Aquifers have large gas stor-age capacity.

The 2020 International Energy Outlook (IEO) estimated that in 2050 natural gas would be the primary energy source from fossil fuel, driven by the industrial and power generation demand [1][2][3].

Sichuan-Shanghai Gas Pipeline, also known as the Sichuan-East Gas Pipeline, is an operating natural gas pipeline.[1] ... There is a shortage of pipeline capacity and gas storage facilities in China, ... Owner: Anhui Huishang Great Wall Energy Co.,Ltd; Parent company: Capacity: 0.36 bcm/year; Length: 113 kilometers;

Although Sichuan is the 8th largest consumer of both total energy and electricity in China, it has the optimal energy consumption structure compared with the northern and eastern parts of China 4 ...

As a representative of emerging economies, China is in urgent pursuit of clean energy such as natural gas. In this context, this chapter comprehensively analyzes China's natural gas consumption market and consumption structure and proposes a sales method for the China National Petroleum company, as the main natural gas resource supplier, based on the current ...

The largest underground natural gas storage cluster in northern China, with a capacity of 10.03 billion cubic meters, was put into operation on Monday. It will guarantee stable energy supply in ...

The Zhongyuan gas storage cluster currently comprises three blocks - the Wen 23, Wen 96 and Wei 11. In a press statement, the firm said: "The Wei 11 gas storage facility that's now up and running is a key component of establishing the natural gas storage cluster reaching ten billion cubic metres."

During the "13th Five-Year Plan" period (2016-2020), several policies were proposed by the Chinese government to speed up the construction of gas storage. In 2018, the opinions of accelerating the construction of gas storage facilities and improving the gas storage market mechanism and peak-shaving auxiliary services were promulgated.

China's natural gas resources are mainly distributed in the northwest, while the main consumption areas are in the eastern developed areas. To balance the differences in ...

The academic community has conducted extensive exploration on the realization of China's carbon peak and carbon neutrality in many fields, such as energy transformation, industrial structure upgrading, transportation carbon reduction, urban planning and construction, carbon sink enhancement, low-carbon technologies, green finance, and ...

Sinopec has discovered a series of large gas fields, such as: the Puguang gas field, the largest marine-phase sour gas field in China. the Yuanba gas field, the first ultra-deep...



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A discussion covers the status quo of global energy consumption, including natural gas resources, reserves, production, trade volume, and trend in the global market; current situation for the ...

In 2014, China's natural gas apparent consumption reaches 183 billion m³, with underground storage peak shaving volume of 4.2 billion m³, making peak shaving volume ...

It is also suggested that Sichuan Province should focus on developing clean energy with the capability of peak shaving, such as hydrogen energy and natural gas, while developing smart grid and ...

China's Sinopec Corp said on Wednesday that the Chinese government had recently certified 133 billion cubic meters of proven geological reserves of natural gas in its ...

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

0. Introduction. The global warming caused by greenhouse gas emissions has become a significant ecological and environmental issue on a global scale. 1-3 Climate anomalies, droughts, glacial melting, and rising sea levels have threatened human, animal, and plant production and livelihoods. Energy conservation and emission reduction have become ...

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