

Can China meet peak load shaving demand?

In China, although the UGS has been put into operation for many years, it lags far behind the peak-shaving demand. 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.

Why is UGS the most important peaking facility in China?

Compared with other gas storage facilities, UGS is utilized as the most important peaking facility in China because of its large gas storage capacity and high safety. In the past two decades, the construction of UGS in China has been developing rapidly. Up to the end of 2017, China has built 25 UGSs.

Does peak shaving power reduce ESED and OCGR?

A correction model of peak shaving power of ES with the objective of minimizing ESED and OCGR was established.

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].

How much gas is used for peak-shaving in China?

In China, in 2017, the total gas volume used for peak-shaving was 26.109 million m³, in which the UGSs only contributed by 29%, with a volume of 7.7 million m³. The rest 71% of the peak-shaving requirement was met by reducing users, regulating gas fields and supplying LNG, which greatly impacted the NGM.

Why is peak shaving unbalanced?

Due to the cost of deep peaking of conventional units, the system needs a larger charging power provided by ES to participate in peak shaving when the power of RE is larger (e.g. Fig. 7 (Typical day 3 0:00 to 8:00 p.m.)). In this way, the charge and discharge of ES involved in peak shaving may be unbalanced.



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