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Title: Xiong an New Area Energy Storage Cabinet 600mm Deep

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Does Xiong'an New area have a geothermal Genesis model?

We revealed the 3D spatial distribution of deep geothermal reservoirs, cap rocks, heat-controlling and water-conducting faults in Xiong'an New Area. We established a geothermal genesis model and evaluated the geothermal potential of different geothermal fields.

Is the Xiong'an New Area a geological laboratory?

Similar flow trajectories considering the surface topography have been proposed in other sites ( Frey et al., 2022 ). 6. Conclusions The Xiong'an New Area has been identified as rich in geothermal resources and is considered as a test and validation geologic laboratory for the development of geothermal energy generation technologies in China.

What are the thermal reservoirs in Xiong'an New Area?

In the northern part of Xiong'an New Area, under the combined influence of mantle-derived heat flow and radiogenic heat generation, the shallow Wumishan Formation of the Jixian System and Gaoyuzhuang Formation of the Changcheng System serve as thermal reservoirs, with the Neogene serving as the caprock.

What are the geothermal reserves in Xiong'an New Area?

The geothermal reserves in the carbonate thermal reservoir of the Xiong'an New Area range from 35.6  $\times 10^6$  to 297.9  $\times 10^6$  kJ in value, which is equivalent to an energy content of approximately 10 billion tons of coal ( Wang et al., 2018 ). Fig. 1. Location: topography and geology framework.

The region known as the Xiong'an New Area serves as a testing and validation research laboratory for the development and utilization of geothermal energy in China. To ...

In the first two months of this year alone, Xiong'an New Area added 12,900 kilowatts of clean energy installed capacity, soaring more than 257 percent from the same period of last ...

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Xiong'an New Area boasts abundant geothermal resources, with widespread Jixianian geothermal reservoirs serving as key targets for exploration and development. Zoning ...

With the attraction of talent, Xiong'an is focused on becoming an innovation hub and entrepreneurship hot spot of the new era. A series ...

We established a deep geothermal genesis model for Xiong'an New Area. Influenced by mantle heat sources and radiogenic heat production, the Rongcheng and ...

According to China Xiongan Group Smart Energy Co, 60 medium-deep geothermal wells and 2,360 shallow geothermal wells have been built and put into operation since the new ...

The award-winning proposal deeply integrated intelligent energy management system and established a 'PV-Storage-Charging' integrated power system, this solution has ...

Xiong'an New Area is moving ahead with the construction of a green and sustainable heat supply system supported by its rich geothermal resources and waste heat, ...

Office buildings are under construction in the main urban district of the Xiong'an New Area, a brand new city born ...

This study provides valuable insights into the exploration and sustainable exploitation of deep geothermal reservoirs in Xiong'an New Area, enhancing resource utilization and contributing to ...

'The Xiong'an New Area serves as a testing ground, where we pioneer initiatives and gradually inspire neighboring areas to embark on ...

A man walks past a PEDF (Photovoltaic, Energy Storage, Direct current, Flexibility) system in Huangwan Village of Xiong'an New Area, north China's Hebei Province, April 15, 2025.

In the heart of China's ambitious Xiong'an New Area, a treasure trove of geothermal energy awaits, and a pioneering study led by Ming-xiao Yu of the Institute of ...

In order to deepen the large-scale development and utilization of geothermal resources in the medium-deep depth of Xiong'an New Area, based on outcrop, core, rock thin ...

To date, medium-deep geothermal energy has been used to heat a cumulative floor area of 12 million sq m in Xiong'an. This initiative reduces carbon dioxide emissions by ...



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