

# Building solar power generation in northern Shaanxi

How much power does Shaanxi province produce?

In 2017, the total power generation in Shaanxi Province was 181.4 billion kWh, of which thermal power accounted for 87.47%, and clean energy accounted for 12.53%, in which hydroelectric power, wind power, and photovoltaic power accounted for 7.84%, 2.80%, and 1.89% of the total power respectively (DEES, 2018b).

Is Shaanxi province a good case study for energy restructuring?

This level of coal consumption represented 5.13% of China's total consumption, ranking Shaanxi Province ninth nationally (NBSC, 2018; SPPG, 2022). Therefore, Shaanxi Province is a suitable case study for the impact of energy restructuring on the reduction of air pollutants and CO<sub>2</sub> emissions.

What is Shaanxi province known for?

Shaanxi Province is a major energy province in China. Coal is the main energy source in Shaanxi Province, and the amount of coal used in 2017 was 20.07 million tons, accounting for 74.80% of the province's total energy consumption (equivalent to standard coal).

How is Shanxi transforming its energy supply?

In addition, Shanxi is rapidly advancing the development of renewable and clean energy sources, including solar, wind, hydrogen, and geothermal energy. As a result, the province's energy supply is transitioning from relying solely on coal to a more diverse and environmentally friendly mix of sources.

How to reduce pollutant emissions in Shaanxi province?

Therefore, controlling energy consumption and adjusting the energy structure will play an important role in reducing pollutant emissions, especially those of SO<sub>2</sub>, NO<sub>x</sub>, PM and CO<sub>2</sub>. The distribution of wind power and photovoltaic power generation cities in Shaanxi Province is shown in Table S5.

How many energy storage stations are there in Shanxi?

As of July this year, Shanxi had put 16 energy storage stations into operation, with a total regulation capacity exceeding 1.27 million kilowatts, making the province's power supply more stable and reliable. In Shanxi, the concept of energy conservation and emission reduction has been widely embraced by the people.

To achieve the goals of carbon peak and carbon neutrality, Xinjiang, as an autonomous region in China with large energy reserves, should adjust its energy development and vigorously develop new energy sources, ...

The installed capacity of the leading photovoltaic bases in North China's Shanxi province has reached 4 million kilowatts as of the end of 2020, ranking first in the country, according to an ...

While the grid-connected capacity of rural household photovoltaics is increasing rapidly, achieving dynamic



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supply-demand matching despite fluctuations in solar energy is ...

Shaanxi Xiyang Jinzhong Solar PV Park is a ground-mounted solar project. The project generates 160,000MWh electricity and supplies enough clean energy to power 110,000 households. ...

Cailian news agency, Dec. 8 - Longji Longding BIPV products have recently been installed in Shenmu zhangjiamao Mining Co., Ltd. of Shaanxi coal group. Shenmu zhangjiamao coal mine ...

According to the official, the least-developed counties and villages have been prioritized in the development of solar-power facilities. "About 43 percent of the poverty alleviation solar power ...

A comparison of the solar elevation angle of northern Shaanxi with that of Xi'an reveals that northern Shaanxi has a relatively small solar elevation angle (Table 1). Despite the expansive ...

renewable energy integration capacity of Shaanxi power system during the next "Five-Year Plan" period. First, an in-depth study of the power ... of wind power and photovoltaic power ...



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