

<div class="df\_qntext">Is PV generation economically feasible in China?

By integrating grid costs and balancing costs into conventional LCOE framework, a System LCOE (S-LCOE) model was constructed to evaluate the economic feasibility of PV generation, more accurately. The results revealed that all provincial S-LCOE of China's PV is currently higher than local desulfurized coal electricity price (DCEP).

<div class="df\_qntext">How much does solar energy cost in China?

In especial, the costs of silicon batteries and PV modules have been reduced by more than 70 % during 2013~2020. The average cost of PV energy for public utilities in China was below 0.37CNY/kWh (0.0541USD/kWh) in 2020 .

<div class="df\_qntext">How much does PV electricity cost in China?

The average cost of PV energy for public utilities in China was below 0.37CNY/kWh (0.0541USD/kWh) in 2020 . In 2021, the price of China's PV electricity to upload to the State Grid was reduced to equal to local desulfurized coal electricity price (DCEP) .

<div class="df\_qntext">Is PV generation a competitive advantage in China?

Newly installed capacity of PV generation in various provinces, China from 2015 to 2020. Facilitated by continual improvement of battery efficiency and innovation of development models in PV industry, the costs of PV generation have been continuously decreasing and demonstrated considerable commercial competitiveness.

<div class="df\_qntext">Does Qinghai have a PV cost advantage?

For provinces like Qinghai that have superior generation conditions and lower S-LCOE P than average, local preferential benchmark electricity prices are the major obstacle to achieving PV cost advantages, which forces this region to lie at a considerable distance to realize the equivalence between PV and thermal power.

<div class="df\_qntext">Are PV projects economically competitive compared to thermal generation?

Based on the comparative analysis of provincial S-LCOE and DCEP, four regions with diverse economic competitiveness were identified. PV projects in Region I and Region II are considered to be potentially competitive comparing to thermal generation, in terms of environmental benefits and S-LCOE, especially in Guangdong, Jilin, and Hainan.

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