

# **Price of single-phase photovoltaic containerized products for power grid distribution stations**





## Overview

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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).

What is solar photovoltaics?

Owing to fast and comprehensive advancement of technologies and techniques, and vigorous emergence and speedy development of energy internet, solar photovoltaics (PV) has become one of the cleanest, smartest and most economical means of power generations .

Why do PV systems cost so much?

The large-scale deployment of PV generation has ramped up the intermittency and uncertainty of power systems, and these inevitable issues have pushed up the costs of the entire PV system, especially the balancing costs and grid infrastructure costs that cannot be ignored .

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) .



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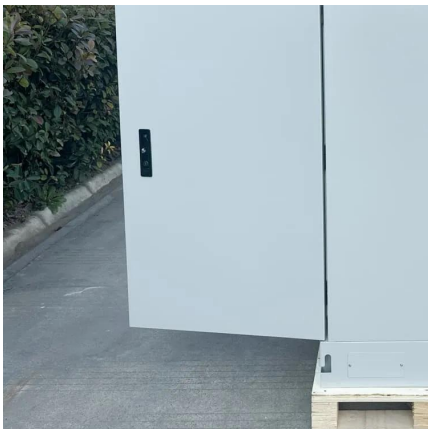


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98.5% ...



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