

Grid parity for solar power generation

What is solar PV Grid parity?

Solar photovoltaics (PV) 'grid parity' has come into view since 2010. As currently conceived, grid parity is considered the tipping point of the cost effectiveness of solar PV technology, at which point it can be ensured that solar PV power generation is competing with conventional power supplies 1,2,3,4,5.

How to promote grid parity of PV power generation?

Therefore, for the regions with high solar radiation, residences with higher power load which have large space around 90 m² are more advantageous to promote grid parity of PV power generation. In the regions with poor solar radiation, the small residential building is more beneficial to the development of PV power generation. Table 7.

What is grid parity for wind and solar?

As a result, widespread grid parity for wind and solar were generally predicted for the time between 2015 and 2020. Grid parity is most commonly used in the field of solar power, and most specifically when referring to solar photovoltaics (PV).

Why is grid parity important for China's PV industry?

If the development of the PV industry is to continue in China, it is imperative to address this subsidy reduction by achieving grid parity. Grid parity is defined as the equivalence of the cost of electricity from PV power generation with that of conventional energy power generation [9,10].

Is grid parity of PV power possible without national subsidy?

It is possible to reach grid parity of PV power in some places without national subsidy, as has occurred in some U.S. cities. Thus by estimating the grid parity of PV power, this paper provides an assessment of the cost-competitiveness of PV power generation considering the temporal factor.

How is the grid parity of off-grid PV power generation estimated?

Two growth rates - a high (10%) and low (5%) growth rate - are set to estimate the grid parity of off-grid PV power generation across a range of possible futures. As shown in Fig. 13, the grid parity of off-grid PV power generation in five cities is estimated by the future cost of PV power generation and the retail price. Fig. 13.

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