

# Photovoltaic panel power generation efficiency evaluation table

Are there studies on solar PV power efficiency at the national level?

(1) There are few studies on solar PV power efficiency at the national level. Although solar PV generation is widespread and can provide electricity to meet the energy needs of economic development, few analyses have been conducted to assess solar PV power efficiency.

What are the indicators of solar PV power efficiency?

Solar PV installed capacity and solar PV generation are the most basic indicators of solar PV power efficiency. Therefore, we selected solar PV installed capacity, the cumulative number of solar PV patents, gross capital formation, and labor as input variables and solar PV generation as the output variable.

What is the average solar PV power efficiency score?

Overall, after adjusted inputs, the average solar PV power efficiency score of the 26 countries is 0.957, reaching the maximum value of 0.986 in 2020 and the minimum value of 0.950 in 2006, 2007, and 2013. The solar PV power efficiency scores were below average, except from 2016 to 2020.

What variables are used in the evaluation of solar PV?

In particular, gross capital formation (% of GDP), labor, solar PV installed capacity, the cumulative number of solar PV patents, solar PV generation, the proportion of the urban population in the total population, GDP per capita, and carbon dioxide emissions were the variables used in the evaluation.

How does government policy affect solar PV power efficiency?

They also have relatively greater expectations of non-fossil-fuel energy generation, which will also increase the level of attention given to solar PV generation; furthermore, more government policies and researcher input will influence solar PV power efficiency. . . 3. Results and discussion

Why does India have a low average solar PV power efficiency score?

Therefore, there is an insufficient grid to carry and transport the power generated by solar PV generation, which is not conducive to the large-scale popularization of solar PV generation grid parity, resulting in India's low average solar PV power efficiency score.

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