

Analysis of the macro environment of solar power generation

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.

How to analyze the macro-environment of photovoltaics in Spain?

2. Macro-Environment Strategic (PESTEL) Analysis of Photovoltaics in Spain An analysis of the macro-environment of photovoltaics in Spain will be carried out by developing a PESTEL analysis, which will provide a description of the context or environment in which a specific industry/market works.

How does GDP per capita affect solar PV power efficiency?

GDP per capita is used to measure the level of economic development of different countries; the level of economic growth determines the country's ability to invest in solar PV generation infrastructure development, which can affect solar PV power efficiency , , .

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

How do external environmental variables affect solar PV power efficiency?

External environmental variables affect the solar PV power efficiency of each country differently (see Table 2 for sources of external environment variables). An extensive literature review shows that the proportion of the urban population in the total population, GDP per capita, and carbon dioxide emissions all affect solar PV power efficiency.

How does environmental conditions affect solar power generation?

However, environmental conditions as well as operation and maintenance of the solar PV cell affect the optimum output and substantially impact the energy conversion efficiency, productivity and lifetime, thus affect the economy of power generation.

In the United States, utility-scale solar capacity additions outpaced additions from other generation sources between January and August 2023--reaching almost 9 gigawatts (GW), up 36% for the same period in 2022--while small-scale solar ...

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