

Factors that determine the price of solar modules





Overview

Why do solar modules cost so much?

However, as the primary cost component of photovoltaic modules, the price of solar cells plays a decisive role in module pricing. Due to the oversupply of polysilicon in earlier periods, prices have been under sustained pressure since 2023, even falling below cost levels in the first half of 2024.

What factors affect the cost of photovoltaic modules?

1. Cost Factors Driving Price Fluctuations The cost of photovoltaic modules is primarily composed of solar cells, glass, encapsulation film, and labor expenses.

Will price fluctuations affect the photovoltaic module market?

As the global energy transition accelerates, the photovoltaic (PV) industry, as a key component of renewable energy, continues to attract significant attention for its promising development prospects. However, price fluctuations in the photovoltaic module market remain a critical factor influencing the industry's growth.

How are photovoltaic module price adjustments affecting industry players?

The current round of photovoltaic module price adjustments has imposed significant operational pressure on industry players. Leading companies, with their high R&D costs, are at a disadvantage in the price competition. Meanwhile, small and medium-sized enterprises find it challenging to endure prolonged price wars.



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To determine the influence of each factor, the chapter develops a pricing model for solar modules in the top five solar module-producing countries, backed by a theoretical ...

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Empirical analysis of factors influencing the price of solar modules

Originality/value: Studies on the price reduction mechanism of solar modules over the years have focused purely on the technological aspect of the manufacturing. This is the first research to ...

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Empirical analysis of factors influencing the price of solar modules

Design/methodology/approach In this paper, an oligopolistic model and econometric method are used to determine the economic factors that have an influence on solar module ...

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