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What drives 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.

How much will a Tier 1 solar module cost?

Hryshko expects prices of high-quality Tier 1 solar modules to soon exceed \$0.12/W. “This means module prices will at least match production costs for the first time in months,” she highlights. “And this should happen within six months.

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 solar module prices increase in the next six months?

Solar module prices are expected to increase significantly from current levels in the next six months, according to Yana Hryshko, head of Solar Supply Chain Research for Wood Mackenzie. “Prices have to increase, as the Chinese solar manufacturing industry is going to do everything to make this happen,” she told pv magazine.

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Very recently, Chen et al. Quantifying the accelerated diffusion and cost savings of global solar photovoltaic supply chains (Chen et al., 2025). Their work emphasizes the ...

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