

Price of Long-Term Photovoltaic Containerized Products





Overview

Does supply chain localization affect the future price of PV modules?

While our study primarily focuses on PV modules, it is important to note that the trend towards supply chain localization may impact not only the future price, CED and GHG emissions of PV modules but also the price, energy consumption and carbon emissions of the whole PV system, as well as other renewable energy products.

How much does a PV module cost in 2022?

Fig. 2 illustrates the price and harmonized environmental footprint development of PV modules from 1957 to 2022, with the price dropping significantly from almost US\$3500 per watt to around US\$0.25-0.3 per watt by the end of 2022 (OWID, 2023; Nagy et al., 2013; Nemet, 2019).

Does global versus deglobalization affect the photovoltaics industry?

Our analysis of the impact of global versus deglobalization on the photovoltaics industry in five representative countries reveals significant costs and energy savings, and emission reductions (Fig. S3, Table S4).

How has globalization impacted the PV industry?

Our estimates indicate that globalization have resulted in combined cumulative savings of US\$205 billion (2022 US\$, with a 95 % confidence interval of US\$189-222 billion), higher than the total business value of the PV sector in 2021 (US\$190 billion) (IEA, 2022a).



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