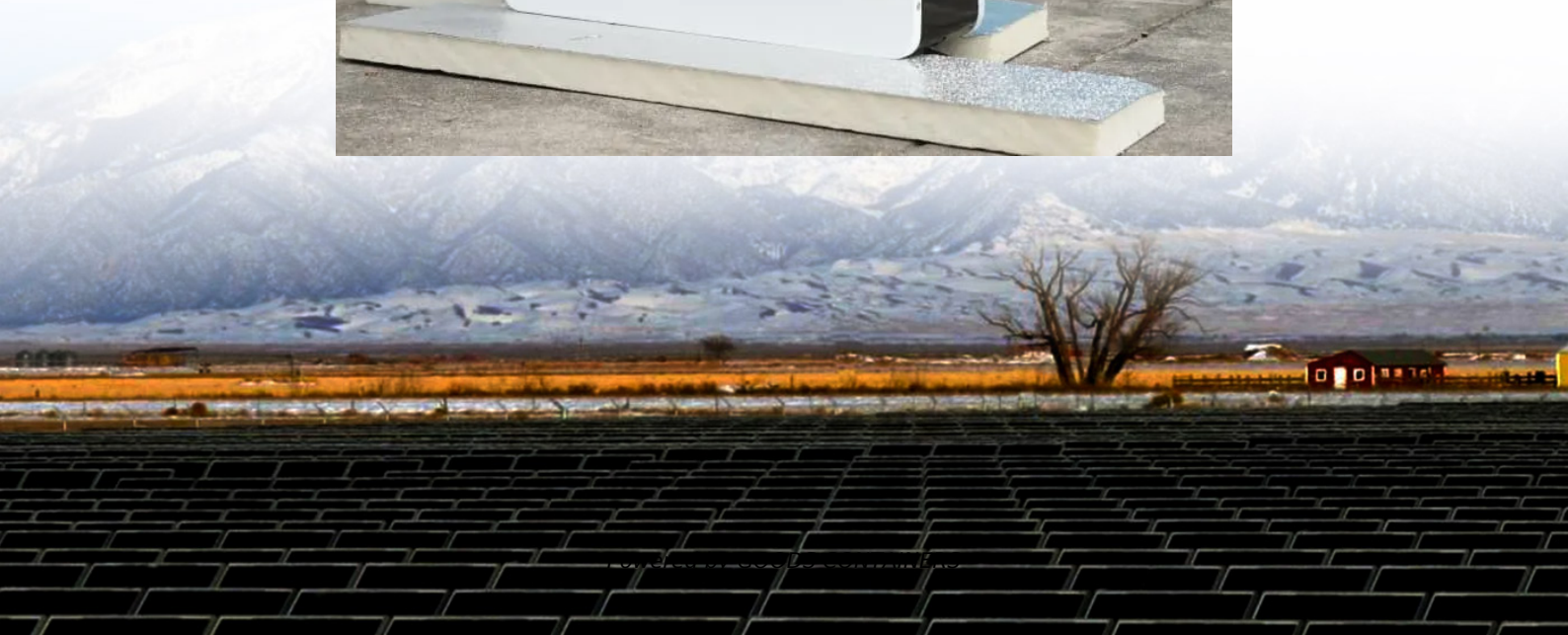


Price Reduction for Mobile Containerized Photovoltaic Units Used in Communities





Overview

What is solar technology cost analysis?

NREL's solar technology cost analysis examines the technology costs and supply chain issues for solar photovoltaic (PV) technologies. This work informs research and development by identifying drivers of cost and competitiveness for solar technologies.

Do hardware and non-hardware features reduce the cost of solar photovoltaics?

The cost of solar photovoltaics has declined over the past two decades, but the driving mechanisms are not fully understood. Now, researchers examine the role of hardware and non-hardware features in cost reduction of photovoltaics and develop a model that could be used to understand cost reductions for other energy technologies.

How does technology affect the cost of solar PV systems?

The findings show that advances in hardware features made the largest contribution to the overall cost reduction of solar PVs. The reduction in the soft costs has also been primarily driven by hardware improvements: more practical system designs might speed up installation, reducing labour or permit costs.

What are the operating and maintenance costs of centralized PV power stations?

According to the "China PV Industry Development Roadmap (2018)" and "China Photovoltaic Industry Development Roadmap (2019)," which were published by the China Photovoltaic Industry Association, the operation and maintenance costs of the centralized PV power stations in 2018 and 2019 are 0.05 yuan/watt/year and 0.045 yuan/watt/year, respectively.



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