

## How to promote photovoltaic panels due to their high cost

Do solar photovoltaic energy benefits outweigh the costs?

This article appears in the Spring 2020 issue of Energy Futures, the magazine of the MIT Energy Initiative. Benefits of solar photovoltaic energy generation outweigh the costs, according to new research from the MIT Energy Initiative.

How do we promote the purchase behavior of solar panels?

We design four messagesaimed at promoting the purchase behavior of solar panel installations. Our messages present outcomes for oneself or for the environment and highlight cost savings versus earnings (for oneself) or reducing emissions versus generating green electricity (for the environment).

Is photovoltaics a promising technology for renewable electricity generation?

A promising and already established technology for renewable electricity generation is photovoltaics (PV). Despite its invention already in the 19th century, only in the late 1980s, the first solar PV systems have been implemented and paved the way for autark, decentral electricity production.

Is solar photovoltaics ready for the future?

Solar photovoltaics (PV) is a mature technologyready to contribute to this challenge. Throughout the last decade, a higher capacity of solar PV was installed globally than any other power-generation technology and cumulative capacity at the end of 2019 accounted for more than 600 GW.

What percentage of electricity demand is covered by solar PV?

In 2019, solar PV supplied 9% of electricity demand in Germany and 19% in California (Figure 5). Existing plans contemplate penetration higher than 20% in several power systems by 2030. Figure 5. Percentage of electricity demand covered by solar PV in different markets worldwide

Should solar energy projects be prioritized instead of conventional energy projects?

In such a case, priority may be given to conventional energy projects instead of solar energy projects due to this price unawareness. 5.5. Oil companies as a barrier One of the difficulties in the transition to renewables is the unwillingness of some oil companies to diversify their portfolios.



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