

Can ordinary forest land be used to make photovoltaic panels

Can a forest-photovoltaic system simulate Solar Tree installation?

The aim of this study was to explore the operational potential of forest-photovoltaic by simulating solar tree installation. The forest-photovoltaic concept is to maintain carbon absorption activities in the lower part while acquiring solar energy by installing a photovoltaic structure on the upper part of forest land.

Are solar farms a viable alternative to forests?

Forests and solar energy are both critical to achieving the climate goals proposed by the Paris Agreement. However, large-scale deployment of solar farms requires vast land areas, potentially posing conflicts with other land uses. For example, solar farms have been built in forested regions or with a direct cost to forests (through deforestation).

Should solar farms be placed over forests or through deforestation?

Placing solar farms over forests or through deforestation should be discouraged. Forests and solar energy are both critical to achieving the climate goals proposed by the Paris Agreement. However, large-scale deployment of solar farms requires vast land areas, potentially posing conflicts with other land uses.

Can a PV plant use forest land?

Nature reserves are prohibited areas and ecological zones are restricted areas; PV plants are prohibited to use forest land, etc.; Unused forest land should be taken as "forest and PV complementary". PV power generation planning shall not occupy agricultural land and prohibit the occupation of permanent basic agricultural land in any way.

Which type of land is suitable for solar PV installation?

These special types of land, often with harsh natural environment, low land utilization rate and abundant solar radiation, are more suitable for large area installation of PV facilities, with green energy to drive innovative applications and land transformation, to achieve simultaneous development of economic and ecological benefits.

Can solar farms be built over forests?

Land-use conflicts between solar farms and forests have occurred partly because of weak institutions (Kim et al., 2021; Moreira-Dantas and Söder, 2022) and have been further strengthened by the assumption that building solar farms over forests is feasible and highly energy-efficient. However, this assumption has not been well evaluated.



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