

Are roof-mounted solar PV systems a viable energy source for rural microgrids?

In rural areas, roof-mounted solar PV systems are among the main energy system development targets, and the spatial distribution information of PV power generation is crucial for the construction of rural microgrids.

Can solar PV systems improve rural/off-grid households?

A multi-stage stratified random sampling approach was applied to select sample districts and households. The findings showed that solar PVs systems could have significant potential to improve the electricity access, socio-economic development, and health conditions of rural/off-grid households.

Do stand-alone solar PV systems affect rural household energy access?

The aim of this study was to assess and empirically analyse the impacts of stand-alone solar PV systems on rural household energy access, socio-economic development, and the environment in rural southern Ethiopia. The findings showed that the uptake of solar PV/PicoPV systems in rural southern Ethiopia is growing fairly quickly.

Does community management influence household adoption of rooftop solar photovoltaics in rural China?

This paper examines inequality in household adoption of rooftop solar photovoltaics in rural China through a qualitative study of three villages. The Chinese government promotes distributed solar to drive low-carbon development. However, community management and China's institutional system influence unequal access.

How accurate is the spatial distribution of rooftop PV power generation potential?

By combining the above results and setting the solar radiation parameters and PV system efficiency, we can obtain the spatial distribution of the rooftop PV power generation potential in rural areas. This method is applied in northern China on a village and a town scale, and the overall accuracy of the revised U-Net model can reach over 92%.

Can rooftop solar energy be used in rural areas?

There are nearly no studies on rooftop solar energy potential in rural areas. Although PV is very prosperous in rural areas, it can meet the energy demands of local farmers and supply extra electricity to urban areas. This can promote clean energy in rural areas and improve the living conditions of farmers.

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