

# Solar power generation in Hongguang Village

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.

Are photovoltaic power installations in Yunnan and Guangdong competitive?

For Yunnan, Guangdong, and Hubei, the photovoltaic power installations are at low levels with neighboring provinces, showing a relatively weak regional competition pattern. In addition, the photovoltaic power installation in different stages varied at the provincial level.

What are the spatial-temporal characteristics of photovoltaic power installation in China?

According to the photovoltaic power installation distribution, the spatial-temporal characteristics of the photovoltaic power installation in China can be depicted. The photovoltaic power development stages could be classified into Full operation, Partial operation, Announced construction, Permitted construction, and Under construction.

How does SEPAP support solar installations in high-poverty rural villages?

SEPAP supports solar installations in high-poverty rural villages through three primary types of projects: village-level arrays (for projects generally no more than 300 kW), village-level joint construction arrays (for projects generally no more than 6000 kW), and rooftop installations targeted toward poor villagers (typically several kW).

Is hybrid energy generation feasible in China's resource-based areas?

The feasibility of hybrid energy generation in China's resource-based areas is discussed. The technical, economic, and environmental optimization design of the systems are performed. The optimal PV-WT-DG-battery system under the CD strategy has a total NPC of \$1,795,558 and COE of 0.378 \$/kWh.

How do village committees promote solar adoption?

There are three modes for village committees to promote solar adoption: non-intervention, partial intervention, and full intervention. Generally, government-involved adoption can give households more external support, including information, supply chain, maintenance service, etc.

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