

# **Are state-owned enterprise factories willing to install photovoltaic panels**

Do government photovoltaic subsidies affect enterprise independent innovation in China?

Achieving a green, low-carbon economy necessitates clarifying the impacts of government photovoltaic (PV) subsidies on enterprise independent innovation in China. This study constructs a tripartite evolutionary game model among government, enterprises, and energy regulatory service centers (ERSC).

Are state-owned PV Enterprises more risky?

In China, since state-owned PV enterprises have a greater need to serve government objectives to secure legitimacy, PV enterprises with a higher proportion of state-owned shares are usually less likely to conduct risky innovation activities than private ones.

Can GSS stimulate enterprise innovation in PV Enterprises without state-owned shares?

GSs can fill the gap of enterprise innovation funds and disperse the risk of enterprise innovation activities and thereby may stimulate the innovation in the PV enterprises without state-owned shares.

Will the first solar facility help meet America's demand for solar power?

The First Solar facility will help meet America's surging demand for solar power. The United States added a record amount of solar power capacity in 2020 and that capacity is expected to quadruple by 2030, according to consulting firm Wood Mackenzie.

Do GS subsidies promote the R&D efforts of PV Enterprises?

As a rapidly developing economy, China has attracted a lot of global attention [61,62]. In recent years, large amounts of GSs have been subsidized to PV enterprises in China. There is an arising controversy about whether these subsidies have promoted the R&D efforts of PV enterprises.

Why is China focusing more on solar photovoltaic (PV)?

The solar photovoltaic (PV) power is abundant, clean, and convenient and also has been considered as one of the most promising renewable energies [5,6]. Due to the ever-increasing energy and environmental pressures, China is switching to focus more on fostering the PV industry.

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