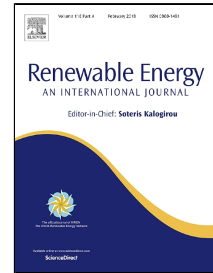


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Observed Surface Radiation and Temperature Impacts from the Large-Scale Deployment of Photovoltaics in the Barren Area of Gonghe, China

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In this work, we evaluated the surface radiation and temperature impacts empirically with *in situ* observations in Gonghe and provided new insight to this question. Novel results presented here are listed as the following three highlights:

- A negative (positive) anomaly of SWUP over PV plant during summertime (wintertime).
- A significant cooler land surface over the PV panels across the whole year.
- A notable daytime heating and a nighttime cooling of the surfaces of PV panels
- A basis for the parameterization of a PV plant in numerical model.

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