

How do photovoltaic projects affect ecological corridors?

Ecological corridors not affected by Photovoltaic projects are more densely distributed in the east and south of the study area, while ecological corridors affected by Photovoltaic projects are more evenly distributed in the study area. 3.3. Effects of PV projects on the ecological networks 3.3.1. Effects on corridor patency

Which ecological corridors have the least cumulative resistance to photovoltaic projects?

Potential ecological corridors that connect every two ecological sources with and without the photovoltaic projects were built based on the LCD values, with ecological corridors being evaluated as having the least cumulative resistance. 3.2.1. Identification of ecological sources

How do corridors affect a PV project?

Corridors have significant changes in patency, length, and connection strength after PV projects construction. Large-scale PV projects should be avoided in ecologically sensitive areas to minimize the impact on the ecosystem.

How many PV projects have shortened a corridor?

It can be seen that the PV projects have, on average, shortened most of the corridor length by about 1.33 km. Only four of them increased in length, and all of them increased by less than 5%. The remaining 35 corridors were reduced in length by various levels.

How do PV projects affect ecological networks?

Effects of PV projects on the ecological networks Ecological corridors serve various purposes, including preserving biodiversity, filtering contaminants, erosion prevention, and flood management. They can also serve as a habitat for wildlife and operate as a conduit, source, sink, barrier, and filter for biological movement (RTT, 1995).

Should large-scale PV projects be avoided in ecologically sensitive areas?

Large-scale PV projects should be avoided in ecologically sensitive areas to minimize the impact on the ecosystem. After construction, ecological restoration should be carried out correctly to improve the ecosystem service functions and maintain biodiversity.

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Photovoltaic pipeline corridor earthquake-resistant support production plant

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