

Title: Solar photovoltaic panels reflect birds

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One of the most documented reactions of birds to solar facilities is what researchers call the "lake effect." Large solar installations, particularly those utilizing photovoltaic panels, can create a ...

In a new report published in *Renewable and Sustainable Energy Reviews*, ecologists explained that solar panels often reflect light in a way that mimics bodies of water. Known as ...

Solar arrays, while essential for reducing greenhouse gas emissions, create large reflective surfaces that can confuse migratory animals. This phenomenon poses significant ...

This project examined the so-called lake effect hypothesis that utility-scale solar facilities attract birds by simulating the visual cues birds use to locate water bodies.

The "lake effect" occurs when reflective photovoltaic (PV) panels are mistaken for water by migrating waterfowl and shorebirds. This misperception can cause birds to attempt to land, ...

"The reflective glare from solar panels mimics the appearance of water bodies, confusing migrating birds and leading them off course," Professor Fleming said.

Because PV panels are non-reflective and low to the ground, they do not create the thermal danger seen at CSP sites. A hypothesized mechanism unique to PV arrays is the "lake ...

Researchers have previously hypothesized a "lake effect" where these birds--some of which require water to take off and land--are confusing reflective solar panels with water bodies and ...

Bird droppings, or guano, accumulate on the surface of the glass and create a shading effect on the photovoltaic cells below. Even a small amount of concentrated shading can ...

CSP facilities attract large numbers of flying insects and therefore insectivorous birds, while both heliostats



# Solar photovoltaic panels reflect birds

(CSP) and PV solar panels are attractive to waterbirds, with the timing and ...

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