

Desert promotion of solar power plants



Overview

As land degradation becomes more severe (see Nature 623, 666; 2023), desert photovoltaics are a triple-win, fostering not only clean-energy generation but also ecosystem recovery and local poverty reduction. Panels provide shade, cutting surface water evaporation by 20–30%. Water used for cleaning. The Mojave Desert is truly one of the world's "Last Great Places." Its scenic beauty and natural wonders shelter a huge range of plants and animals, and its 20 million acres provide for people in a multitude of ways—clean water to drink, fresh air to breathe, energy to power our lives and economic. A presentation titled, "Solar energy in the desert: Ecological impacts of utility-scale photovoltaic facilities in the rapid renewable energy transition" by Claire Karban, USGS, Seth Munson, USGS, Jeffrey Lovich, USGS Emeritus, Lara Kobelt, BLM, Juan Pinos, University of Nevada Las Vegas, Matt. Energy companies are moving solar projects to unconventional sites like deserts, farms, and waterways to avoid using arable land. China's "solar great wall" in the Kubuqi Desert and canal-based projects in California showcase innovative dual-use solar solutions. Here is an excerpt on what lies. The Ivanpah Solar Electric Generating System is a 386-megawatt project consisting of three solar concentrating thermal power plants located in the Mojave Desert in San Bernardino County.

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[Solar energy in the desert](#)

Summary: This presentation describes research on soil and plant communities impacted by utility-scale solar energy (USSE) development in the Desert Southwest, USA.

[Solar Development in the Mojave Desert](#)

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[Solar Panels in the Desert and the Ecosystem](#)

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Solar developers worldwide are exploring dual-use sites - such as deserts, farms, and waterways - to expand capacity sustainably and reduce environmental impact.



[Locating the suitable large-scale solar farms in China's deserts with](#)

This study creates a large-scale PV base site selection evaluation model using both the analytic hierarchy process (AHP) and GIS methods to encourage the long-term growth of solar ...



[Is Desert-Based Solar a Good Idea?](#)

This article explores the benefits of desert-based solar and some potential challenges and solutions associated with rolling out large-scale solar farms in the desert.



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Should solar power stations be built in desert areas? As renewable energy development is accelerating globally, more and more PV power stations are built in desert areas to meet the growing demand for ...



[Ivanpah Solar Electric Generating System](#)

The Ivanpah Solar Electric Generating System is a 386-megawatt project consisting of three solar concentrating thermal power plants located in the Mojave Desert in San Bernardino County. The ...



[Solar Development in the Mojave Desert](#)

The Mojave Desert is one of the most promising areas in the world for developing solar energy. We're working to ensure this development is done in a way that protects the desert's unique landscapes ...



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