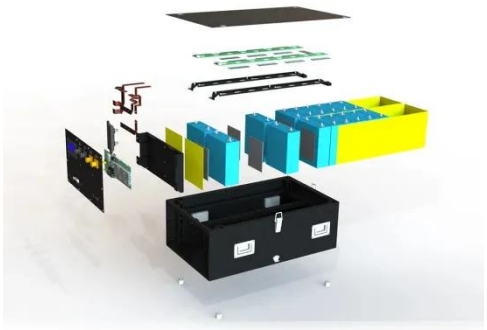
Desert solar power generation feasibility

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%. The Thar Desert, an expansive arid region in the north western part of the Indian subcontinent, stretches across the border of India and Pakistan. Covering about 200,000 square kilometres, it is among the world's largest deserts. This vast landscape, characterized by its sandy terrain and minimal. Desert-based solar energy has emerged as a promising solution for sustainable power generation. Some suggest the sun's power in desert regions. To assess the feasibility of hybrid energy generation systems in these service areas, meteorological data for the three locations were obtained from the NASA platform.

Desert solar power generation feasibility



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