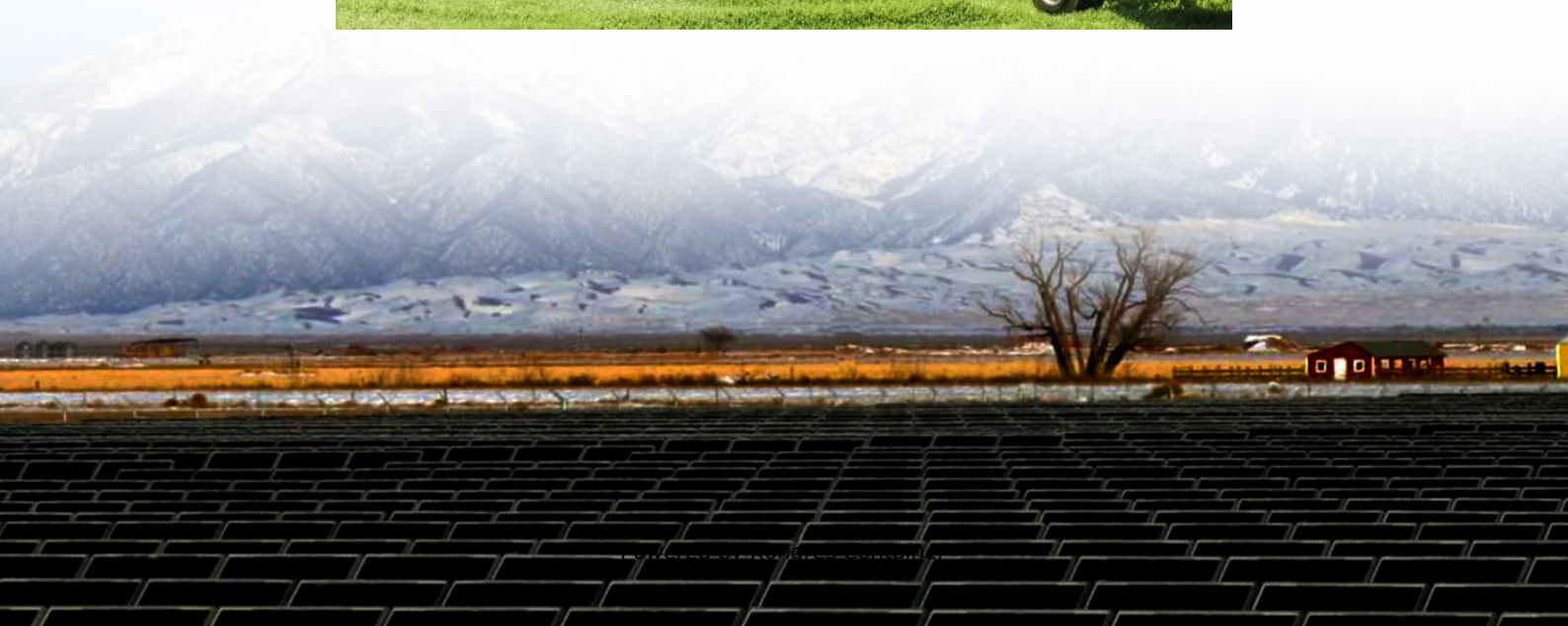


## Kongres Container

# Solar power supply in Nepal



## Overview

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Nepal has a solar power potential of 432 gigawatts (432,000 megawatts), over ten times higher than that of hydropower, which is 42,000 MW. With over 300 days of sunshine a year, the country could produce 3.6 to 6.2 units of electricity per square meter based on its solar radiation.

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The project came into operation in 2020. Photo from Wikimedia Commons. License CC BY 4.0. This article was submitted as part of the Global Voices Climate Justice fellowship, which pairs journalists from Sinophone and Global Majority countries to investigate the effects of Chinese development.

While the Nepal Electricity Authority (NEA) and the energy ministry continue to offer differing perspectives on the issue, they converge on one undeniable fact: Nepal is facing an electricity shortage. The immediate victims of this crisis are Nepal's industries, as the NEA prioritises residential.

Nepal gets most of its electricity from hydropower sources, but it is looking to expand the role of solar power in its energy mix. [1] The average global solar radiation in Nepal varies from 3.6 to 6.2 kWh/m<sup>2</sup>/day, sun shines for about 300 days a year, the number of sunshine hours amounts almost.

Kathmandu; Various studies have shown that due to sufficient sunlight, there is great potential for solar power generation in Nepal. According to the "Energy" report released by the Investment Board Nepal (IBN) in April 2024, Nepal receives solar radiation equivalent to the potential for producing.

Among the sources of energy—coal, nuclear, hydropower, solar, and wind—solar energy is one of the key components of renewable energy. Essentially, sunlight received during the day can be harnessed through solar panels to generate energy. Therefore, adequate solar radiation, solar panels, and.

We have developed nearly 4000 megawatts of generation capacity, with hydropower and solar contributing almost entirely—making Nepal one of the greenest electricity producers in the world. Blessed with an estimated 83,000 MW of hydropower potential and about 42,000 MW of pumped storage potential.

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