
Nepal solar energy storage project approved

How much solar power does Nepal need?

Kathmandu, April 24, 2025 -- In a significant stride towards sustainable energy, the Nepal Electricity Authority (NEA) has awarded contracts for 960 megawatts (MW) of solar power projects. This allocation, surpassing the initial target of 800 MW, underscores Nepal's commitment to diversifying its energy portfolio and reducing reliance on hydropower.

How many solar projects are in Nepal?

This allocation, surpassing the initial target of 800 MW, underscores Nepal's commitment to diversifying its energy portfolio and reducing reliance on hydropower. The NEA's recent tender attracted robust participation, resulting in the selection of 64 solar projects ranging from 5 MW to 50 MW in capacity.

Is solar power a long-term solution in Nepal?

Solar power is being seen as a viable long-term solution in Nepal due to the challenges in connecting all households to the national electricity grid system, which is a result of scattered settlement and geographically remote terrain (Bhattacharya, 2006; Bhandari and Stadler, 2011; KC et al., 2011).

Is solar energy a viable alternative for power generation in Nepal?

"Nepal receives optimal sunlight of approximately 300 days on average during the year with a total solar radiation of 3.6 - 6.2 kWh /m² /day with an average of 4.7 kWh /m² /day, making solar energy a significant renewable alternative for power generation in Nepal.

"This transformative project will revolutionize industrial energy use by replacing polluting diesel generators with a large-scale, solar ...

This shows that once policy became clear and panel prices dropped, large solar quickly became viable. The table below shows the lists of solar power projects developed so ...

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