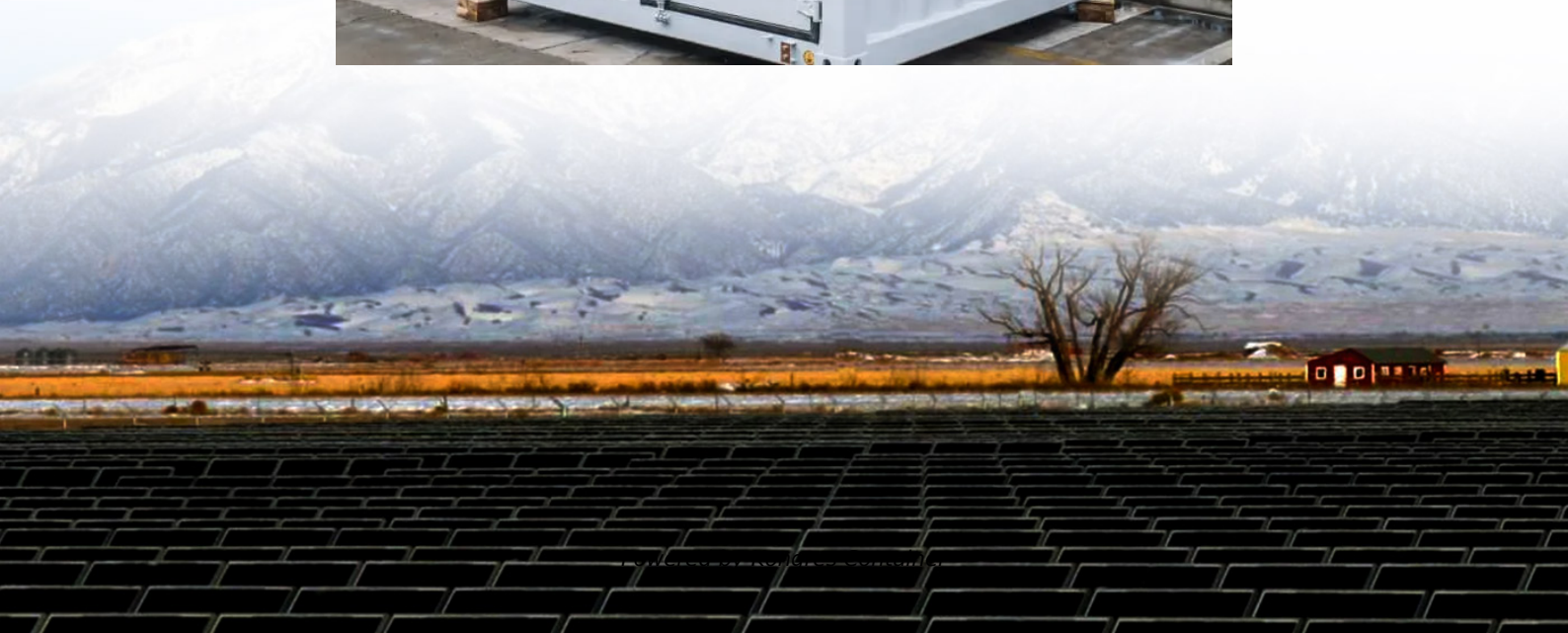


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Nepal Power Construction Energy Storage solar



Overview

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 being built in Nepal?

According to Department of Electricity Development, about 17 solar projects are currently being constructed in Nepal. NEA along with private sector investors are developing these projects. The department has already issued the license for the construction and the work of these projects is going on full swing.

Is solar power a viable alternative source of energy in Nepal?

As an alternative source of energy, solar power is gaining popularity across the global as well as in Nepal. Although the major investments for electricity production has flowed towards hydropower projects in Nepal, investors in solar projects have increased in recent years.

How many MW of electricity will Nepal produce in 10 years?

The government of Nepal has set the target of producing 15,000 MW of electricity in the next ten years. Understanding the concept of 'energy mix', the government has emphasized that the contribution of solar or renewable energy should be around 10-15 percent. Previously, the solar power was used only for the household purposes.

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 Stadlere, 2011; KC et al., 2011).

How many solar units are there in Nepal?

There are about 943 medium-sized photovoltaic solar units for the communications sector, which contribute to 1.5 MW of electricity. Around 225,000 solar photovoltaic appliances are installed throughout Nepal, with a total contribution of 5.36 MWp.

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