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India is leading the renewable energy revolution, with a strategic emphasis on solar power to meet its growing electricity needs. The 14th National Electricity Plan (NEP14), introduced in May 2023, aims to double the country's electricity generation capacity by 2032, with solar energy poised to play a pivotal role.

Solar power energy is used for solar panels, renewable energy sources, photovoltaic cells, solar electricity generation, solar water heating, solar air conditioning, solar lighting, and solar battery charging.

Solar power in India is an essential source of renewable energy and electricity generation in India. Since the early 2000s, India has increased its solar power significantly with the help of various government initiatives and rapid awareness about the importance of renewable energy and sustainability in the society.



Use of solar panels India

Solar photovoltaic power can effectively be harnessed providing huge scalability in India. Solar also provides the ability to generate power on a distributed basis and enables rapid capacity addition with short lead times.

India can use solar power very well, and there is a lot of possibility for growth. The National Institute of Solar Energy says India could produce about 750 GW of solar energy if solar panels covered just 3% of unused land. The best places for solar energy in India are Rajasthan and Gujarat. Read about: Nuclear Energy

India's solar power sector is a sunshine opportunity waiting to be tapped with estimated potential of 7,48,990 MW. From job creation to fostering innovation and more, the solar power market is key to India's economic development & energy transition.

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