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Now, with solar and wind power and other renewable electricity (RE) resources becoming commercially available in the marketplace, there are additional choices available to policymakers and stakeholders concerned with the technical, economic, and environmental characteristics of a future power system that keeps pace with economic growth . One of ...

As India's economy and population continue to grow, so too does its demand for energy. India is also particularly vulnerable to climate change. Solar power could be the answer to both problems. With 300 sunny days a year, India can lead the world in solar capacity.

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India saw the world's fourth-largest increase in solar generation in 2023 (+18 terawatt hour or TWh), behind China (+156 TWh), the United States (+33 TWh), and Brazil (+22 TWh). Together, the top four solar growth countries accounted for 75 per cent of growth in 2023.

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In India, Kerala State Electricity Regulatory Commission issued order in 2014 of Generation Based Incentive (GBI) for Off Grid Captive Solar Power Plants to meet the RPO targets. The RPO compliance challenge also remains to the date in India.

India is endowed with vast solar energy potential. About 5,000 trillion kWh per year energy is incident over India's land area with most parts receiving 4-7 kWh per sqm per day. Solar photovoltaic power can effectively be harnessed providing huge scalability in India.

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The cost of solar PV power in India, China, Brazil and 55 other emerging markets fell to about one-third of its 2010 price, making solar the cheapest form of renewable energy and cheaper than power generated from fossil fuels such as coal and gas.

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