

Recent Status of Solar Photovoltaic Power Generation in India

How has India's solar power capacity soared?

In a recent announcement, the Union Minister for New & Renewable Energy and Power disclosed a remarkable surge in India's solar power capacity. According to the latest figures, the country's installed solar power capacity has soared from 2.82 GW as of March 31, 2014, to an impressive 73.32 GW by December 31, 2023.

How many GW of solar PV is installed in India?

In the fiscal year 2023-24 alone, more than 15 GW of solar PV capacity was added, demonstrating India's commitment to expanding its renewable energy portfolio. In the first two of the fiscal year 2024-25, over 3 GW of renewable energy capacity was installed, with solar contributing more than 2.46 GW, constituting about 82% of the total.

How much solar power does India have in 2023?

According to the latest figures, the country's installed solar power capacity has soared from 2.82 GW as of March 31, 2014, to an impressive 73.32 GW by December 31, 2023. This significant increase underscores India's steadfast commitment to expanding its renewable energy portfolio and reducing dependence on traditional fossil fuels.

Will India double its power generation capacity in 2022?

India plans to more than double its electricity generation capacity from 399.5 GW in 2022 to approximately 849 GW by 2032. The NEP14 emphasizes a robust focus on renewable energy, particularly solar power, which is projected to grow from 66.78 GW in 2023 to 366 GW by 2032, constituting half of the total growth.

Does India need solar energy?

India's climate action is dependent upon energy transition (in the electricity sector) by betting large on shift to solar energy. In 2014-15, the Government had set a target of producing 175 Gigawatt (GW) of renewable energy by 2022, with 100 GW of solar energy. The present installed capacity of solar energy is only 60% of the target.

Will India generate 75% of its electricity by 2050?

Bloomberg New Energy Finance (BNEF) estimates in its NEO 2018 report, that India will generate 75% of its electricity from renewable energy sources by 2050. India's current installed capacity stands at ~408 GW, of which renewable energy (Wind, Solar and other renewable energy) is ~118 GW. This is ~67% of the 175 GW target set in 2014.

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India saw the highest year-on-year growth in renewable energy additions of 9.83% in 2022. The installed solar energy capacity has increased by 30 times in the last 9 years and stands at 92.19 GW as of Oct 2024. India's solar energy ...

The 18,000 square kilometers of water reservoirs in India can generate 280 GW of solar power through floating solar photovoltaic plants. The cumulative installed capacity of ...

Solar photovoltaics power can effectively be harnessed providing huge scalability in India. National Institute of Solar Energy has assessed India's solar potential to be about 750 GW assuming 3% of the waste land ...

PYQs on Solar Energy. Question 1: With reference to technologies for solar power production, consider the following statements: (UPSC Prelims 2014) "Photovoltaics" is a technology that generates electricity by direct conversion of ...

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Globally, India has emerged as a significant player in renewable energy, ranking fourth in total renewable power capacity additions and fifth in solar power capacity. From 2014 ...

Solar energy is the most abundantly available and one of the cleanest energy resources that humankind has known for a long time. With the benefits of solar energy and its advantages, many countries worldwide are on the path to ...

India's electrical sector has witnessed a significant decline in hydropower share, leading to an increased reliance on thermal power generation, exacerbating greenhouse gas ...

Overview of India's PV power industry. Solar power generation has significant potential in India, which receives around 300 days of direct sunlight annually (Raina and Sinha ...

India's solar capacity increased from 1.60 GW in 2013 to 63.15 GW in 2022. 51 solar parks with a total capacity of 37.74 GW sanctioned across India by 2023. PM Modi predicts significant growth in India's solar energy sector.



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The Union Minister for New & Renewable Energy and Power has informed about the status of production of solar cells and panels in the country. The solar power generation ...

It provides an introduction to solar energy and how it works. It then discusses government initiatives and policies in India to promote solar energy, including the Jawaharlal Nehru National Solar Mission with a target of ...



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