



India's solar power transformation

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How much solar power does India have?

India's cumulative solar power capacity stood at 119.02 GW as of July 2025. This includes 90.99 GW from ground-mounted solar plants, 19.88 GW from grid-connected rooftop systems, 3.06 GW from hybrid projects, and 5.09 GW from off-grid solar installations, reflecting the country's diverse approach to expanding renewable energy.

Why should India invest in solar energy?

As India focuses extensively on energy security by not only emphasising RE capacity addition but also promoting domestic manufacturing, it is pertinent that we ensure every GW translates to GWh and increases the share of solar energy in India's energy mix. The author is Chief Executive Officer, National Solar Energy Federation of India

How has India's solar supply chain changed in a year?

In just one year, solar module manufacturing capacity nearly doubled--from 38 GW in March 2024 to 74 GW in March 2025. Similarly, solar PV cell manufacturing rose from 9 GW to 25 GW. A big milestone was the start of India's first ingot-wafer manufacturing facility (2 GW), further strengthening the entire solar supply chain.

Is India the world's third-largest solar power producer?

Today, the nation has raced ahead to script history: India has officially surpassed Japan to become the world's third-largest solar power producer. According to the International Renewable Energy Agency (IRENA), India generated an impressive 1,08,494 GWh of solar energy, leaving Japan behind at 96,459 GWh.

Union Budget 2026 Bets Big on Sustainable Power Union Budget 2026 has sent a strong message - India's growth story will be green, technology-driven, and self-reliant. With targeted policy ...

Explore how international collaboration is accelerating India's solar manufacturing and green hydrogen push, positioning the country as a global clean energy hub.

India has declared an ambitious target of 500 GW of renewable energy (RE) by 2030, comprising around 280-300 GW of solar energy alone. As India graduates from 100 GW to triple its ...



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evolution India stands at the cusp of an energy transformation. Once plagued by power shortages, the country now aims to become a global leader in renewable energy, targeting a massive 500 GW of ...

The real turning point came with the launch of the National Solar Mission in 2010, which brought solar to the center stage and became the heart of India's energy development and transition...

With record renewable additions of 29.52 GW in the past year alone, India's energy transition is now not only an environmental necessity but also a driver of economic growth, job ...

Physical Achievements Programme/Scheme wise Cumulative Physical Progress as on 31st December, 2025 ...
Solar Power* (Cumulative) : 135.81 GW Ground Mounted Solar Plant : ...

India Energy Storage Week (IESW): Discover how India has transformed into a renewable energy superpower, achieving 227 gigawatts of solar capacity in a decade and leading ...

India has reached a historic milestone, surpassing the 50% renewable energy threshold in its total installed capacity, a target initially set for 2030 that has now been achieved five years ahead...

Just a decade ago, India's solar landscape was in its infancy, with panels dotting only a few rooftops and deserts. Today, the nation has raced ahead to script history: India has officially ...

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