

Green Horizon: Government's Supportive Measures in Solar Energy



Delhi, India Jan 9, 2025 ([Issuewire.com](https://www.issuewire.com)) - **Green Horizon** refers to India's broad strategic vision to enhance its renewable energy sector, with solar energy playing a central role in the country's energy transition. The Indian government has set ambitious targets to boost renewable energy capacity, particularly solar, which is critical to addressing the nation's energy needs while reducing its carbon footprint. Through a series of supportive measures, India aims to lead the global transition to sustainable energy.

Government Targets and Renewable Energy Strategy

India has established itself as a key player in the global renewable energy market, setting a target of achieving **175 gigawatts (GW)** of renewable energy capacity by 2022. This target was later extended, with [the government aiming for 450 GW by 2030](#). Solar power is a primary focus in these initiatives, as the country seeks to harness its significant solar potential to reduce dependence on fossil fuels and address climate change.

India's focus on renewable energy is part of its commitment to the **Paris Agreement** and its goal to significantly reduce greenhouse gas emissions. Solar power, with its relatively low environmental impact and declining costs, is seen as a cornerstone of India's energy future.

Government Initiatives to Promote Solar Energy

Several government initiatives and policies have been introduced to foster the growth of solar energy in India, making it a more viable and accessible option for both large-scale projects and individual consumers.

1. Subsidies and Tax Benefits

The Indian government has implemented financial incentives to promote solar adoption, including **subsidies**, **tax exemptions**, and **low-interest loans** for individuals, businesses, and developers involved in solar projects. These subsidies reduce the initial financial burden of setting up solar installations, making it more affordable for consumers to switch to solar energy.

2. Streamlined Approval Processes

A major barrier to the growth of solar energy has been the complex and time-consuming regulatory approval processes. In response, the Indian government has simplified these procedures to ensure smoother and faster project development. By reducing bureaucratic hurdles and offering **faster clearances**, the government aims to encourage more investment in solar infrastructure.

3. Production Linked Incentive (PLI) Scheme

The Ministry of New and Renewable Energy (MNRE) introduced the **Production Linked Incentive (PLI) Scheme** in 2021 to promote domestic manufacturing of **high-efficiency solar photovoltaic (PV) modules**. With an allocation of ₹24,000 crore, this scheme incentivizes companies to set up large-scale manufacturing facilities for solar PV modules in India. The scheme is intended to make India self-sufficient in solar panel production, reduce dependency on imports, and enhance the country's competitiveness in the global solar market.

4. Solar Parks and Infrastructure Development

To provide the necessary infrastructure for large-scale solar energy projects, the Indian government has developed **solar parks** in various states, including Rajasthan, Gujarat, and Tamil Nadu. These parks provide **land, grid connectivity, and infrastructure** support to developers, facilitating the establishment of large solar farms. The development of **green energy corridors** has also been crucial to ensure that renewable energy produced from these parks can be efficiently transmitted to the national grid.

Impact of Government Measures on Solar Energy

India's solar energy initiatives are a significant part of its broader efforts to transition to clean, renewable energy sources and combat climate change. By enhancing its solar capacity, India is not only improving its energy security but also reducing its reliance on fossil fuels. The expansion of solar energy also contributes to economic growth through the creation of **green jobs** and **investment opportunities** in the renewable energy sector.

The government's efforts align with India's **National Action Plan on Climate Change (NAPCC)** and its goals under the **Paris Agreement**, where India has committed to reducing its carbon emissions intensity and increasing its renewable energy share. These measures support India's transition to a **low-carbon economy**, making it a model for other countries looking to increase their renewable energy capacity.

Niche Clean Energy's Contribution to India's 2070 Mission

In line with India's commitment to achieving [net-zero emissions by 2070](#), companies like [Niche Clean Energy](#) are playing a crucial role in advancing the country's renewable energy agenda. Through a variety of projects focused on solar power and sustainable technologies, Niche Clean Energy contributes significantly to India's solar capacity growth.

Solar Power Expansion

Niche Clean Energy is involved in large-scale solar farm development and **rooftop solar installations** across India. The company's solar energy projects are strategically located in regions with high solar irradiance, such as Rajasthan and Gujarat, which help maximize the efficiency of solar energy production. Niche Clean Energy's efforts contribute directly to India's renewable energy targets, particularly in the context of its ambitious 450 GW goal by 2030.

Energy Storage and Hybrid Solutions

One of the challenges of solar energy is its intermittent nature. Niche Clean Energy is addressing this issue by promoting [energy storage technologies](#), which store excess solar energy generated during the day for use during the night. Additionally, the company is investing in **hybrid energy solutions** that combine solar and wind power generation, improving the overall efficiency and reliability of renewable energy production.

Rural Electrification and Decentralized Energy Solutions

Niche Clean Energy is also making significant strides in providing **decentralized energy solutions** to rural areas through **solar microgrids** and **off-grid systems**. These solutions are especially important in regions with limited access to the national grid, providing reliable and clean energy to communities that previously relied on kerosene or diesel.

Conclusion

India's Green Horizon strategy reflects the country's determination to transition to a cleaner and more sustainable energy future. The government's initiatives to support solar energy, including the PLI Scheme, subsidies, and streamlined approval processes, have positioned solar power as a key pillar in India's renewable energy expansion. Companies like **Niche Clean Energy** are vital in supporting these efforts, [contributing to India's goals of achieving 450 GW of renewable energy by 2030](#) and **net-zero emissions by 2070**. Through these collective efforts, India is not only addressing its domestic energy needs but also contributing to the global effort to mitigate climate change.



Media Contact

Niche Clean Energy

*****@gmail.com

731, SG Shopping Mall,, Rajapur, Pocket 24/1,, Sector 9, Rohini,

Source : Niche Clean Energy

[See on IssueWire](#)