Accelerating Renewable Developments

International Conference REvision2022
02 March 2022
India’s ambitious RE targets

The country has set ambitious targets towards reducing India’s total projected carbon emission by 1 bn tonnes by 2030.

Reduce the carbon intensity of the nation’s economy by less than 45% by the end of the decade, achieve net-zero carbon emissions by 2070.

Achieve a capacity of 175 GW worth of renewable energy by the end of 2022.

Which expands to 500 GW by 2030. This is the world’s largest expansion plan is in renewable energy.

India has achieved its NDC target with total non-fossil based installed energy capacity of 158.17 GW which is 40.2% of the total installed electricity capacity.

Current position

- 4th largest installed capacity of renewable energy in the world
- 4th largest installed capacity of wind power in the world
- Fifth-largest solar installed capacity in the world
Solar Expansion in India

India’s installed renewable energy capacity has increased 286% in the last 7.5 years and stands at more than 151.4 Giga Watts (including large Hydro), with installed solar energy capacity increase by 17 times in the last 7 years and stands at 49.5 GW.

Domination of Solar in RE Mix (as of Dec 2021)

- Coal: 67.0%
- Nuclear: 3.9%
- Gas: 7.3%
- Renewable: 21.8%
- Wind: 47.1%
- Solar: 4.6%
- BM Power/Cogen: 0.4%
- Waste to Energy: 9.7%
- Small Hydro Power: 38.2%

Price reduction through a 2-stage process
- **Feed-in Tariffs** created a base for the industry
- **Reverse Auctions** helped scale up and reduce prices

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Green Grids Initiative
One Sun
One World
One Grid

Road Map to Achieve the (One Sun One World One Grid) Vision

The Sun Never Sets

“I firmly believe that this project can bring transformational benefits for the entire humanity.”
- Hon’ble Prime Minister Of India, Shri Narendra Modi.

Phase I
Middle East, South Asia and South-East Asia

Phase II
Solar and other renewable energy resources rich regions.

Phase III
Global interconnection of the power transmission grid

Tripartite MoU between the ISA, the Government of India, and the World Bank to implement the OSOWOG initiative has been signed.
Thank You