



सत्यमेव जयते
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry
Government of India

ENERGY SECTOR OVERVIEW

- **5th largest installed power capacity** in the world
- **3rd largest producer and 4th largest consumer of electricity** in the world

Renewable Energy (RE)

- **RE Installed Capacity: 60.15GW** out of the **total 331.11GW** (as of Oct 2017)
 - Solar 14.8GW; Wind 32.7GW; Bio Power 8.3GW; Small Hydro 4.4GW
- **Largest RE capacity expansion plan globally**- 80% increase by 2022 from 2015
- **Estimated RE potential of 1000+ GW**
- Record capacity addition of 5+ GW for both solar and wind in 2016-17
- India has the world's **3rd largest installed capacity of concentrated solar power**
- World's largest solar power plant (648MW) commissioned in record 8 months, in Tamil Nadu in Sept 2016
- **4th largest wind energy generating nation** after China, US, and Germany
- India ranked **2nd in EY's Renewable Energy Attractiveness Index**, surpassing US
- FDI inflows: USD 3.7Bn between April 2014 to Sept 2017

DEMAND DRIVERS FOR RENEWABLE ENERGY

- **Target of 175GW by 2022** (Solar 100GW; Wind 60GW; Small Hydro 10GW; Bio 5GW)
- Vision of 24x7 affordable and environment-friendly **Power for all by 2019**
- **Reduce the emissions intensity** of GDP by 33% - 35% by 2030 below the 2005 levels
- Increase share of non-fossil fuel in total capacity to ~40% by 2030 from 30% in 2015

GOVERNMENT SUPPORT FOR RENEWABLE ENERGY

- **100% FDI allowed** under automatic route
- Classified under 'white category' for easier environment clearances
- **Green Energy Corridor project (\$6.5 Bn)**: to integrate RE into the national grid
- **Clean Energy Fund**: Cess on coal, lignite & peat doubled to INR 400/ton
- \$1.3 Bn allocated for setting up **50 Solar parks of 40GW by 2020**
- \$750 Mn approved for Grid Connected Rooftops systems under NSM
- **Solar Cities**: Sanctions for 50 cities issued out of **approved 60**
- Provision of rooftop solar and 10% RE mandatory for development of smart cities
- **Offshore wind farming**: Untapped potential of 7600km coastline; new Offshore Wind Policy launched in 2016
- More RE components taxed at 5% under GST regime, few at 12-18%

RECENT INVESTMENTS

- Nov 2017: IFC invests \$15 Mn in CleanMax Solar, one of the largest rooftop solar developers in India

- Nov 2017: India and World Bank signed a \$98 Mn loan pact and a \$2 Mn grant agreement to help India increase RE capacity, under the Shared Infrastructure for Solar Parks Project
- Sept 2017: Acciona Energia, the RE division of Spanish infrastructure group Acciona, started operations at its 78MW Bannur wind farm in Karnataka