Transmission System for Integration of over 500 GW RE Capacity by 2030

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<u>In news</u>— The Union Minister for Power and New Renewal Energy launched plan "Transmission System for Integration of over 500 GW RE Capacity by 2030″.

Key highlights of the plan-

- Ministry of Power had constituted a high-level committee under Chairperson, Central Electricity Authority for planning the transmission system required for having 500 GW of non-fossil fuel based installed capacity by 2030.
- The Committee prepared a detailed Plan titled "Transmission System for Integration of over 500 GW RE Capacity by 2030" in consultation with States and other stakeholders.
- The Plan is a major step towards achievement of the goal of integrating 500 GW of non-fossil fuel based capacity by 2030 by providing broad plan of required transmission system for having 537 GW of Renewable Energy capacity by the year 2030.
- The transmission plan also includes transmission system required for evacuation of 10 GW off-shore wind located in Gujarat and Tamilnadu.
- With the planned transmission system, the inter-regional capacity will increase to about 1.50 lakh MW by 2030 from 1.12 lakh MW at present.
- Considering the availability of Renewable Energy based generation for a limited period during day, the Plan also envisages installation of Battery Energy Storage Capacity of the order of 51.5 GW by 2030 to provide Round the Clock power to end-consumers.

- The Plan has identified major upcoming non-fossil fuel based generation centres in the country, which include Fatehgarh, Bhadla, Bikaner in Rajasthan, Khavda in Gujarat, Anantapur, Kurnool RE Zones in Andhra Pradesh, offshore wind potentials in Tamil Nadu and Gujarat, RE park in Ladakh etc.
- The planned transmission system projected will provide a visibility to the Renewable Energy Developers about the potential generation sites and scale of investment opportunity.
- Further, it will also provide the Transmission Service Providers the vision of growth opportunity available in the transmission sector along with investment opportunity of about 2.44 lakh crore.
- India has huge ambitions in energy transition and plans to have 500 GW of non-fossil fuel based electricity installed capacity by 2030, so that cleaner fuel comprises of 50% of the installed capacity mix by 2030.
- The installed electricity generating capacity in the country at present is 409 GW comprising of 173 GW from non-fossil fuel sources, which is about 42% of the total installed electricity generating capacity.