

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO.1031
ANSWERED ON 08/02/2024

WIND AND SOLAR ENERGY

1031.SHRI GNANATHIRAVIAM S

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether it is a fact that wind and solar energy accounted for major share of Tamil Nadu's total electricity generation and if so, the details thereof;
- (b) whether it is also a fact that the State leads the country in variable renewable energy market share and it also leads in installed renewable energy capacity and if so, the details thereof;
- (c) whether out of the total 30 MW of installed capacity across the State as of March, 2017, variable wind and solar power account for 9.6 GW or 32 per cent of the total power generation and if so, the details thereof;
- (d) whether the zero emissions capacity represents a leading 50 per cent of Tamil Nadu's total electricity generation; and
- (e) if so, the details thereof?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER
(SHRI R.K. SINGH)

(a) As per Central Electricity Authority (CEA), the percentage share of wind and solar energy in Tamil Nadu's total electricity generation in last three years and current year (upto December, 2023) are as follows;

Details of Electricity generation of Tamil Nadu		
Financial Year	Wind Power Generation (in %)	Solar Power Generation (in%)
2020-21	15.88	6.67
2021-22	14.91	6.76
2022-23	14.49	8.07
2023-24 (upto December, 2023)	16.30	9.09

(b) As on 31.12.2023, ranking of Tamil Nadu in renewable energy capacity, including variable RE sources capacity, based on installed capacity is as follows;

Renewable energy sources	Installed Capacity (in MW)	Ranking in the Country (State/UT wise)
Solar Power	7360.94	4 th

Wind Power	10429.27	2 nd
Total Renewable Capacity	21135.16	4 th

(c) As per CEA, Tamil Nadu's total installed capacity as on 31.03.2017 was 29112 MW, out of which 1691.83 MW was solar and 7861.46 MW was solar energy. The combined wind and solar installed capacity was 32.81% of total installed capacity.

(d) & (e) As per CEA, the total installed capacity of Tamil Nadu is 38365.51 MW as on 31.12.2023, out of which 21184.47 MW is from renewable energy sources accounting for 55.21% of total installed capacity. The details of renewable capacity is given as under;

Energy sources	Installed Capacity (in MW)
Solar	7360.94
Wind	10429.27
Bio	1043.70
Small Hydro	123.05
Large Hydro	2178.20
Total	21184.47
