

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1316
ANSWERED ON 09.02.2023

USE OF RENEWABLE ENERGY SOURCES

1316. DR. DHAL SINGH BISEN

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

- (a) the details of the sources being used under the renewable energy sector;
- (b) the quantum of the energy being generated from various sources under renewable energy during the last five years and the current year; and
- (c) the details of the savings being done by the Government using various sources under renewable energy during the said period, source-wise?

ANSWER

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

(a) A total of 167.75 GW of renewable energy capacity has been installed in the country as on 31.12.2022. This includes 63.30 GW Solar Power, 46.85 GW Large Hydro, 41.93 GW Wind Power, 10.73 GW Bio Power, 4.94 GW Small Hydro Power and 6.78 GW Nuclear Power. Further, projects of 78.75 GW capacity are under various stages of implementation and 32.60 GW capacity are under various stages of bidding.

(b) As per information provided by Central Electricity Authority (CEA), the details of generation from renewable energy (RE) sources during the last five years & the current year i.e., 2017-18 to 2022-23 (upto Dec 2022) are given in **Annexure**.

(c) Most of renewable energy projects in the country are being set up by private sector developers selected through a transparent bidding process.

The Ministry has not undertaken any specific study to assess the savings through use of renewable energy sources.

The country has seen record low RE tariffs of Rs 1.99 per KWh for solar power and Rs 2.43 per KWh for wind power which are quite favourable as compared to tariff of electricity produced from non-renewable energy sources.

The steep fall in average tariff for solar & wind power in recent years has resulted in substantial savings to government exchequer.

In addition, RE generation from various sources has resulted in savings of estimated 1372.72 million tonnes of CO₂ emissions for the country during the last five years & the current year i.e., 2017-18 to 2022-23 (upto Dec 2022).

Annexure referred to in reply to part (b) to (d) of Lok Sabha Unstarred Question No. 1316 for 09/02/2023 regarding 'Use of Renewable Energy Sources'

Details of Generation from renewable energy (RE) sources during the last five years i.e., 2017-18 to 2022-23 (upto Dec 2022)

(in million units)

S. No.	Source	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23 (Upto Dec2022)
1.	Solar Power	25871.07	39268.19	50131.09	60402.26	73483.94	72924.49
2.	Wind Power	52666.09	62036.38	64646.38	60149.95	68640.07	59532.36
3.	Small Hydro Power	7691.58	8702.75	9451.24	10258.41	10463.55	9392.75
4.	Bio-Power	15610.75	16751.77	14108.31	16436.89	18324.74	11203.12
5.	Large Hydro Power	126122.69	134893.61	155769.12	150299.52	151627.33	137903.61
	Total	227962.18	261652.7	294106.14	297547.03	322539.63	290956.33

(Source: CEA)