

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**STARRED QUESTION NO-230**  
TO BE ANSWERED ON-02.08.2018  
**POTENTIAL OF WIND/SOLAR ENERGY**

\*230. ADV. M. UDHAYAKUMAR

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

- (a) whether it is a fact that there are a large areas in the country where there is high potential for tapping both wind and solar energies and if so, the details thereof;
- (b) whether it is also a fact that the share of renewable energy capacity in the country at 69 GW, is more than 20 per cent of the total installed energy generation capacity in the country and if so, the details thereof; and
- (c) whether the actual electricity produced during financial year 2017-18 was less than 8 per cent of the total renewable energy capacity and if so, the details thereof?

**ANSWER**

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER (I/C)  
(SHRI R.K. SINGH)

- (a) to (c) A statement is laid on the Table of the House.

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## STATEMENT

### STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION No. 230 for ANSWER ON 2/8/2018

- (a) A potential of 748.99 GW of solar power and 302.25 GW of on-shore wind power capacity (at 100 m height above ground level) has been estimated in the country. The State-wise details of solar and wind energy potential in the country are given in **Annexure**.
- (b) Total installed electricity generation capacity from all sources in the country was 346.19 GW as on 30<sup>th</sup> June, 2018 which includes 71.32 GW from renewable energy sources i.e. around 20.60 percent of the total installed capacity.
- (c) As per Central Electricity Authority (CEA), 1308.14 billion units (BU) of electricity were generated from all sources during the year 2017-18 which include 101.83 BU of electricity from renewable energy sources i.e. around 7.78 percent of total electricity generation from all sources.

## ANNEXURE

Annexure referred in reply to part (a) of the Lok Sabha Starred question number 230 for 2-8-2018 showing State-wise details of estimated potential of solar and on-shore wind energy in the country.

(In MW)

Sl. No.	STATES / UTs	Wind Power (@ 100 m above ground level)	Solar*
1	Andhra Pradesh	44229	38440
2	Arunachal Pradesh		8650
3	Assam		13760
4	Bihar		11200
5	Chhattisgarh	77	18270
6	Goa	1	880
7	Gujarat	84431	35770
8	Haryana		4560
9	Himachal Pradesh		33840
10	Jammu & Kashmir		111050
11	Jharkhand		18180
12	Karnataka	55857	24700
13	Kerala	1700	6110
14	Madhya Pradesh	10484	61660
15	Maharashtra	45394	64320
16	Manipur		10630
17	Meghalaya		5860
18	Mizoram		9090
19	Nagaland		7290
20	Orissa	3093	25780
21	Punjab		2810
22	Rajasthan	18770	142310
23	Sikkim		4940
24	Tamil Nadu	33800	17670
25	Telangana	4244	20410
26	Tripura		2080
27	Uttar Pradesh		22830
28	Uttarakhand		16800
29	West Bengal	2	6260
30	Andaman & Nicobar	8	0
31	Chandigarh		0
32	Dadar & Nagar Haveli		0
33	Daman & Diu		0
34	Delhi		2050
35	Lakshadweep	8	0
36	Pondicherry	153	0
37	Others		790
	<b>Total</b>	<b>302251</b>	<b>748990</b>

\*The potential of Solar Power (100 GW) is estimated at 30-50 MW/Sq.Cm. of open, shadow free area.

Solar potential As per NISE