

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 3160**  
ANSWERED ON 28.03.2023

**DISTRIBUTION OF ENERGY TO STATES**

3160. SHRI RAJENDRA GEHLOT

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

- (a) the State-wise break up of the total distribution of energy through various sources of energy in the country;
- (b) the details of the sectors having the least share in the production and use of renewable sources of energy in the country;
- (c) the details of the total export value made to other countries in terms of both renewable and non-renewable energy during each of the last three years; and
- (d) whether Government proposes to rationalize standards of the businesses for the ease of doing business in a better way, if so, the details thereof?

**ANSWER**

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

(a) The State-wise details of the electrical energy generated through various sources of energy in the country for the year 2021-22 is given in **Annexure**.

(b) The details of electricity generated from various renewable energy sources in the country during the year 2022-23 (up to Jan, 2023) is as follows:

(in Million Units)	
Source	Electricity Generation during the year 2022-23 (up to Jan, 2023)
Solar Power	82214.50
Wind Power	64546.10
Small Hydro Power	10030.98
Bio-Power	13996.52
Large Hydro Power	145966.76
<b>Total</b>	<b>316754.86</b>

(c) The details of net export/import of electricity by Indian entities during last three years and current year (Upto Jan, 2023) are given below:

(In Million Units)				
Financial Year	Bhutan	Nepal	Bangladesh	Myanmar
2022-23 (Upto Jan, 2023)	6523.67 (Import)	488.96 (Import)	7234.08 (Export)	8.37 (Export)
2021-22	7596.71 (Import)	1921.09 (Export)	7301.74 (Export)	8.80 (Export)
2020-21	9318.17 (Import)	1865.05 (Export)	7551.99 (Export)	9.24 (Export)
2019-20	6310.73 (Import)	2373.06 (Export)	6987.94 (Export)	8.61 (Export)

(Source: Central Electricity Authority)

(d) The major steps taken by the Ministry for imposing Ease of Doing Business in renewable energy sector, inter-alia, include the following:-

(i) Issuance of Guidelines for Tariff Based Competitive Bidding Process for Procurement of Power from Grid Connected Solar PV Power Projects.

(ii) Implementation of Dispute Resolution Mechanism.

(iii) Permitting Letters of Undertaking from specified Financial Institutions under MNRE & Ministry of Power as alternatives to Earnest Money Deposit (EMD) / Performance Bank Guarantee (PBG).

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Annexure referred to in reply to part (a) of Rajya Sabha Unstarred Question No. 3160 for 28/03/2023 regarding 'Distribution of energy to States'

State-wise details of the electrical energy generated through various sources of energy in the country for the year 2021-22

(GWh)								
State/UTs	Hydro	Thermal				Nuclear	R E S*	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	14.19	14.19
Delhi	0.00	3688.80	0.00	4307.67	7996.47	0.00	458.73	8455.20
Haryana	1052.80	20367.71	0.00	320.45	20688.16	0.00	1128.63	22869.59
Himachal Pradesh	9833.49	0.00	0.00	0.00	0.00	0.00	2043.76	11877.25
Jammu & Kashmir	5348.69	0.00	0.00	0.00	0.00	0.00	415.81	5764.50
Punjab	4466.12	30212.84	0.00	320.45	30533.29	0.00	3242.15	38241.56
Rajasthan	1052.11	52156.70	0.00	1392.87	53549.57	0.00	23206.65	77808.33
Uttar Pradesh	2492.50	67767.25	0.00	0.00	67767.25	0.00	5793.47	76053.22
Uttarakhand	8290.75	816.83	0.00	1012.32	1829.15	0.00	872.32	10992.22
Central Sector NR	45831.64	75694.87	0.00	1374.93	77069.80	11889.10	1434.92	136225.46
<b>Sub Total (NR)</b>	<b>78368.10</b>	<b>250705.00</b>	<b>0.00</b>	<b>8728.69</b>	<b>259433.69</b>	<b>11889.10</b>	<b>38610.64</b>	<b>388301.53</b>
Chhattisgarh	404.13	83521.21	0.00	0.00	83521.21	0.00	1938.21	85863.55
Gujarat	1153.18	44797.05	0.00	6702.39	51499.44	0.00	24180.29	76832.91
Madhya Pradesh	3159.47	59173.81	0.00	0.00	59173.81	0.00	8259.05	70592.33
Maharashtra	6276.34	101016.79	0.00	2980.27	103997.06	0.00	15798.41	126071.81
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	47.67	47.67
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	49.16	49.16
Goa	0.00	0.00	0.00	0.00	0.00	0.00	16.82	16.82
Central Sector WR	2645.41	124676.38	0.00	3795.38	128471.76	12105.65	1164.15	144386.97
<b>Sub Total (WR)</b>	<b>13638.53</b>	<b>413185.24</b>	<b>0.00</b>	<b>13478.04</b>	<b>426663.28</b>	<b>12105.65</b>	<b>51453.76</b>	<b>503861.22</b>
Andhra Pradesh	3421.39	41756.53	0.00	2094.34	43850.87	0.00	15251.38	62523.64
Telangana	5986.02	34100.06	0.00	0.00	34100.06	0.00	7312.11	47398.19
Karnataka	13772.48	23796.18	0.00	0.00	23796.18	0.00	28634.28	66202.94
Kerala	9317.44	0.00	0.00	0.00	0.00	0.00	1525.46	10842.90
Tamil Nadu	5212.07	26244.87	0.00	1732.22	27977.09	0.00	23728.31	56917.47
Puducherry	0.00	0.00	0.00	251.13	251.13	0.00	12.24	263.37
Lakshadweep	0.00	0.00	58.91	0.00	58.91	0.00	0.30	59.21
Central Sector SR	0.00	68934.96	0.00	0.00	68934.96	23117.31	867.14	92919.41
<b>Sub Total (SR)</b>	<b>37709.40</b>	<b>194832.60</b>	<b>58.91</b>	<b>4077.69</b>	<b>198969.20</b>	<b>23117.31</b>	<b>77331.22</b>	<b>337127.13</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	239.83	239.83
Jharkhand	302.49	14595.65	0.00	0.00	14595.65	0.00	28.71	14926.85
Odisha	4727.66	28908.42	0.00	0.00	28908.42	0.00	1067.91	34703.99
West Bengal	1630.14	43760.65	0.00	0.00	43760.65	0.00	1845.09	47235.88
Sikkim	4063.51	0.00	0.00	0.00	0.00	0.00	12.35	4075.86
A. & N. Islands	0.00	0.00	155.24	0.00	155.24	0.00	29.36	184.60

Central Sector ER	4814.69	128392.46	0.00	0.00	128392.46	0.00	18.60	133225.75
<b>Sub Total (ER)</b>	<b>15538.49</b>	<b>215657.18</b>	<b>155.24</b>	<b>0.00</b>	<b>215812.42</b>	<b>0.00</b>	<b>3241.86</b>	<b>234592.77</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	2.13	2.13
Assam	401.12	0.00	0.00	1611.96	1611.96	0.00	93.48	2106.56
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	6.72	6.72
Meghalaya	841.82	0.00	0.00	0.00	0.00	0.00	44.68	886.50
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	28.09	28.09
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	63.47	63.47
Tripura	0.00	0.00	0.00	565.60	565.60	0.00	1.97	567.57
Central Sector NER	5129.87	4201.45	0.00	7553.79	11755.24	0.00	34.27	16919.38
<b>Sub Total (NER)</b>	<b>6372.81</b>	<b>4201.45</b>	<b>0.00</b>	<b>9731.35</b>	<b>13932.80</b>	<b>0.00</b>	<b>274.82</b>	<b>20580.43</b>
<b>Central Sector All India</b>	<b>58421.61</b>	<b>401900.12</b>	<b>0.00</b>	<b>12724.10</b>	<b>414624.22</b>	<b>47112.06</b>	<b>3519.08</b>	<b>523676.97</b>
<b>Total All India</b>	<b>151627.33</b>	<b>1078581.47</b>	<b>214.15</b>	<b>36015.77</b>	<b>1114811.39</b>	<b>47112.06</b>	<b>170912.30</b>	<b>1484463.08</b>

Note: BBMB & DVC Generation is considered under central sector

(Source: Central Electricity Authority)