

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO-1764**  
ANSWERED ON-11.02.2021

**ELECTRICITY PRODUCTION BY RENEWABLE AND NONRENEWABLE SOURCES**

1764 SHRI Y. DEVENDRAPPA

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

- (a) the details of electricity production by renewable and non-renewable sources in the country during the last three years and the current year, year and Statewise;
- (b) whether any new wind station, hydro power project and solar station has been set up by the Government during the said period and if so, the details thereof;
- (c) whether the Government proposes to take any measure to increase the production of electricity by renewable sources; and
- (d) if so, the details thereof and if not, the reasons therefor?

**ANSWER**

THE MINISTER OF STATE (I/C) FOR NEW & RENEWABLE ENERGY, POWER and MoS for SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI R.K. SINGH)

(a) The details of state-wise electricity production by renewable (excluding large hydro) and conventional energy sources in the country during the last three years and the current year are given in **Annexure-I & Annexure-II** respectively.

(b): The details of wind, solar, hydro (small and large) capacity installed in the country during the last three years and current year (upto December 2020) are given below:

( in MW)

Year	Solar	Wind	Small hydro	Large Hydro
2017-18	9362.64	1865.23	105.95	795
2018-19	6529.20	1480.97	107.35	140
2019-20	6447.14	2117.78	90.00	300
2020-21 (upto Dec'2020)	2836.81	880.40	67.29	360**

\*\* as on 31.01.2021

(c) & (d) The measures taken by the Government to increase the production of electricity by renewable energy sources in the country, inter-alia, include:

- permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route,
- waiver of Inter State Transmission System (ISTS) charges and losses for inter-state sale of solar and wind power for projects to be commissioned by 30<sup>th</sup> June 2023,
- declaration of trajectory for Renewable Purchase Obligation (RPO) up to the year 2022,
- fiscal incentives such as accelerated depreciation, Goods and Services Tax (GST) at lower rates, concessional custom duty etc

- setting up of Ultra Mega Renewable Energy Parks to provide land and transmission on plug and play basis,
- Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II, etc,
- laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power,
- notification of standards for deployment of solar photovoltaic system/devises,
- setting up of Project Development Cell for attracting and facilitating investments,
- Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar PV and Wind Projects.
- Government has issued orders that power shall be dispatched against Letter of Credit(LC) or advance payment to ensure timely payment by DISCOMs to RE generators.

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**Annexure-I referred to Part- (a) of Lok Sabha Unstarred Question No. 1764 for 11/02/2021 regarding “Electricity Production by Renewable and NonRenewable Sources”****Renewable Energy Generation (State Wise) from Year 2017-18 to Year 2020-21 (Up to December 2020).**

Name of State/UT	Actual Generation (in Million Units)			
	2017-18	2018-19	2019-20	2020-21 (upto- Dec 20)
Chandigarh	7.87	13.51	13.33	6.57
Delhi	241.10	287.64	423.69	329.90
Haryana	567.55	662.36	733.50	529.75
Himachal Pradesh	1903.05	2287.93	2167.24	1981.56
J & K	324.37	312.20	443.13	373.28
Ladakh	1432.07	0.00	0.00	0.00
Punjab	911.80	2445.20	2739.42	2177.96
Rajasthan	10027.76	11863.40	14332.06	12652.29
Uttar Pradesh	4649.98	5694.81	5143.21	3388.06
Uttarakhand	1184.50	1104.97	1193.95	1027.35
Chhattisgarh	1068.49	945.10	1107.87	1131.96
Gujarat	11859.98	13966.18	17716.92	13526.60
Madhya Pradesh	6713.52	8257.15	8297.87	6465.47
Maharashtra	12036.78	14974.88	13985.79	9971.78
Dadra and Nagar Haveli	5.24	5.76	6.19	3.99
Daman & Diu	18.53	18.94	21.83	26.55
Goa	0.00	0.00	0.82	1.06
Andhra Pradesh	11008.55	14550.51	13993.20	10626.31
Telangana	4647.92	7045.99	6794.23	5004.51
Karnataka	13463.91	21657.54	25648.42	21316.37
Kerala	774.33	770.32	804.75	892.87
Tamil Nadu	16179.88	16898.49	19763.89	18238.43
Lakshadweep	1.58	1.11	0.66	0.36
Puducherry	1.17	2.58	4.15	3.33
Andaman Nicobar	25.93	30.43	17.30	30.63
Bihar	309.06	488.14	358.68	185.54
Jharkhand	28.94	21.72	24.18	20.54
Orissa	531.74	653.43	783.20	668.33
Sikkim	30.54	28.11	60.62	44.12
West Bengal	1590.61	1486.19	1475.04	1113.57
Arunachal Pradesh	0.70	1.75	2.23	1.53
Assam	24.49	20.73	58.76	31.85
Manipur	0.15	1.88	4.20	5.86
Meghalaya	70.56	50.51	62.73	41.26
Mizoram	54.67	40.08	50.00	30.76
Nagaland	91.00	87.46	75.87	57.89
Tripura	51.17	82.08	28.10	9.52
Total	101839.49	126759.09	138337.02	111917.72

**Annexure-II****Annexure-II referred to Part- (a) of Lok Sabha Unstarred Question No. 1764 for 11/02/2021 regarding “Electricity Production by Renewable and NonRenewable Sources”.**

Conventional Energy Generation (State Wise) from Year 2017-18 to Year 2020-21  
(Up to December 2020).

( in Million Units)

Name of State/UT	2017-18	2018-19	2019-20	2020-21 (upto- Dec 20)
DELHI	7048.70	7136.04	6015.11	4076.18
HARYANA	26605.97	25435.43	17317.01	8772.09
HIMACHAL PRADESH	38783.00	35908.55	40834.88	33852.85
JAMMU AND KASHMIR	14937.56	16541.58	18094.12	14606.73
LADAKH			270.28	336.81
PUNJAB	29452.35	30699.66	26025.15	16435.82
RAJASTHAN	51643.61	56978.26	55942.38	39055.97
UTTAR PRADESH	128542.28	122772.40	124180.22	94267.93
UTTARAKHAND	15606.60	14995.36	16541.32	11829.63
CHHATTISGARH	110041.76	115714.33	118229.06	99623.50
GOA	0.00	0.00	0.00	0.00
GUJARAT	96519.87	96591.35	106949.32	78519.76
MADHYA PRADESH	111173.47	121677.77	121100.02	94804.13
MAHARASHTRA	124468.30	137023.78	131418.21	80968.74
ANDHRA PRADESH	62961.57	63143.82	62943.12	35540.47
KARNATAKA	44668.81	49756.96	45128.91	24896.92
KERALA	5248.02	7325.09	5466.08	4801.56
PUDUCHERRY	226.45	229.88	255.79	181.59
TAMIL NADU	82386.30	83778.51	83498.02	51259.87
TELANGANA	48804.20	49963.03	51854.82	34741.75
ANDAMAN NICOBAR	258.79	120.73	96.19	97.90
BIHAR	28440.03	32170.52	35360.76	23652.21
JHARKHAND	27624.58	26981.63	26223.04	20293.88
ORISSA	46512.83	46824.37	48253.97	46841.37
SIKKIM	8887.99	9022.07	11027.36	10012.57
WEST BENGAL	74705.22	76952.06	74311.77	53717.42
ARUNACHAL PRADESH	1416.74	1399.02	1786.46	3000.70
ASSAM	6232.89	7224.98	8030.37	4224.77
MANIPUR	837.74	602.61	366.59	512.41
MEGHALAYA	1140.26	929.53	1018.29	1019.11
MIZORAM	78.37	168.44	177.02	124.10
NAGALAND	274.39	231.47	180.85	177.46
TRIPURA	5999.27	6630.85	6092.94	5264.62
Bhutan (IMP)	4778.33	4406.62	5794.48	8406.80
<b>Total</b>	<b>1206306.25</b>	<b>1249336.70</b>	<b>1250783.91</b>	<b>905917.62</b>

- Note: 1. Gross Generation from fuel sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.  
2. Figures given above indicate gross generation of all power stations(Central, State& Private Sector) located geographically in the respective  
3. Ladakh seperated from J&K in 2019-20.