

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.4204  
TO BE ANSWERED ON 18.07.2019**

**CARBON FREE POWER GENERATION**

**†4204. SHRI RAVI KISHAN:  
SHRI RAVINDRA KUSHAWAHA:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the status of power generation in the country at present along with its demand and supply;**
- (b) the details of the sources of power generation and their capacity;**
- (c) the sources through which carbon free power is likely to be generated in the next ten years along with the quantum of power prescribed to be generated from these sources;**
- (d) the details of the measures taken in this regard;**
- (e) whether proposals have been received from the States of Rajasthan, Maharashtra and Uttar Pradesh in this regard; and**
- (f) if so, the details thereof?**

**A N S W E R**

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER, NEW & RENEWABLE ENERGY AND THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP**

**( SHRI R.K. SINGH)**

**(a) & (b): The details of source wise power generation and their capacity in total power production in the country during the current year 2019-20 (upto June, 2019) and the status of demand and supply of power in the country are given at Annexure-I.**

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**(c) & (d) : Hydro, Nuclear and Renewable Energy (including Solar, Wind and Biomass) are main sources from which carbon free power will be generated in the next ten years.**

**Electricity Generation is a delicensed activity and decision to set up any generating plants is based on a demand assessment by the concerned generator. Hence no target has been fixed in the next ten years. However, to promote clean energy Govt. of India has fixed a cumulative target of 175 GW of renewable energy based installed capacity by 2022.**

**The details of steps being taken by the Government to promote the production of renewable energy, inter alia, are as under:-**

- i. Issued guidelines for procurement of solar and wind power through tariff based competitive bidding process;**
- ii. Declared Renewable Purchase Obligation (RPO) up to the year 2021-22;**
- iii. Notified National Offshore Wind Energy Policy;**
- iv. Notified policy for Repowering of Wind Power Projects;**
- v. Notified standards for deployment of solar photovoltaic systems/devices;**
- vi. The waiver of Inter State Transmission System charges and losses for inter-state sale of solar and wind power for projects commissioned by March 2022 has been given.**

**(e) & (f): Generation is a delicensed activity under Electricity Act 2003. Electricity Generation Projects are set up by various utilities and State/Central Public Sector Undertakings (CPSUs) keeping in view the demand for power and techno-commercial viability. As per information available with Central Electricity Authority, the details of Hydroelectric Projects & Nuclear Projects under construction in Rajasthan, Maharashtra are given at Annexure-II.**

**ANNEXURE-I**

**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO.4204 TO BE ANSWERED IN THE LOK SABHA ON 18.07.2019.**

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**Source wise generation and capacity in total power production in the country during the current year 2019-20 (upto June, 2019\*).**

<b>Source</b>	<b>Monitored Capacity as on 30.06.2019 (in MW)</b>	<b>Generation 2019-20 (upto June, 2019 Million Unit)</b>
<b>THERMAL</b>	<b>226324.34</b>	<b>287690.9</b>
<b>NUCLEAR</b>	<b>6780.00</b>	<b>10971.43</b>
<b>HYDRO</b>	<b>45399.22</b>	<b>39548.8</b>
<b>Bhutan Import</b>	<b>-</b>	<b>932.8</b>
<b>Total (conventional)</b>	<b>278503.56</b>	<b>339143.93</b>
<b>RENEWABLE SOURCES</b>	<b>79792.38</b>	<b>35525</b>
<b>Grand Total ( Conventional +Renewable)</b>	<b>358295.94</b>	<b>374668.93</b>

**\* PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT**

**Note: 1. Gross Generation from conventional sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.**

**2. Total Renewable Energy capacity as on 31.05.2019 is 79372 MW.**

**The demand and supply of power in the country during April-June, 2019\***

<b>Energy (Million Unit)</b>				<b>Peak (Mega Watt)</b>			
<b>Energy Requirement</b>	<b>Energy Supplied</b>	<b>Energy Not Supplied</b>		<b>Peak Demand</b>	<b>Peak Met</b>	<b>Demand not Met</b>	
<b>MU</b>	<b>MU</b>	<b>MU</b>	<b>%</b>	<b>MW</b>	<b>MW</b>	<b>MW</b>	<b>%</b>
<b>347,771</b>	<b>346,208</b>	<b>1,563</b>	<b>0.4</b>	<b>183,673</b>	<b>182,533</b>	<b>1,140</b>	<b>0.6</b>

**\*Provisional**

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**ANNEXURE-II**

**ANNEXURE REFERRED TO IN REPLY TO PARTS (e) TO (f) OF UNSTARRED QUESTION NO.4204 TO BE ANSWERED IN THE LOK SABHA ON 18.07.2019.**

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**Details of Hydroelectric Projects & Nuclear Projects under construction in Rajasthan, Maharashtra**

<b>State</b>	<b>Name of Project</b>	<b>Capacity (MW)</b>	<b>Source/Fuel</b>	<b>Likely commissioning</b>
<b>Maharashtra</b>	<b>Koyna Left Bank</b>	<b>2x40=80</b>	<b>Hydro</b>	<b>2022-23 *</b>
<b>Rajasthan</b>	<b>Rajasthan Atomic Power Plant (Unit 7 &amp; 8)</b>	<b>2x700=1400</b>	<b>Nuclear</b>	<b>2021-22</b>

\* **Subject to restart of works**

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