

GOVERNMENT OF INDIA  
MINISTRY OF POWER

**RAJYA SABHA**  
**UNSTARRED QUESTION NO.318**  
ANSWERED ON 05.12.2023

**EXPANSION OF ELECTRIC GRID**

**318 SHRI S NIRANJAN REDDY:**

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

- (a) the details of the target and the actual power lines set up in the last five years in the country;
- (b) whether Government has set a target for grid expansion in the future, given the anticipated increase in energy demand;
- (c) the details of inclusion of renewable energy capacity in the Indian grid; and
- (d) whether it is a fact that the gap between the existing renewable energy capacity and its actual usage is due to the inability of the Indian grid to accommodate higher shares of renewable energy?

**A N S W E R**

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

**(a) :** The details of target and achievement in respect of Transmission lines (220kV and above) set up in the last five (5) years in the country are given below:

<b>Year</b>	<b>Target Power Line (in ckm)</b>	<b>Actual Power Line (in ckm)</b>
2018-19	22,647	22,437
2019-20	23,621	11,664
2020-21	15,791	16,750
2021-22	19,255	14,895
2022-23	14,581	14,625
2023-24 (Up to October-23)	11,420	7,026
Total	1,07,315	87,397

**(b) :** The capacity of National Grid is being expanded on a continuous basis commensurate with the increasing electricity demand and increase in generation capacity. On an average about 16,000 ckm of transmission lines and 75,000 MVA of transformation capacity (220 kV and above voltage level) are being added per year in the country.

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(c) : As on 31<sup>st</sup> October 2023, about 179 GW Renewable Energy capacity (including hydro) is installed in the Indian Grid. The details are given below:

<b>Category</b>	<b>Installed Capacity (in MW)</b>
Solar	72,018
Hydro	51,837
Wind	44,292
Biomass	10,262
Others	573
<b>Total</b>	<b>1,78,982</b>

(d) : The National Grid is fully capable of accommodating the generation from existing Renewable Energy capacity.

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