GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.3163
ANSWERED ON 07.08.2025

DEMAND OF ELECTRICITY

3163. SHRI V K SREEKANDAN:

Will the Minister of POWER be pleased to state:

(a) whether it is a fact that Kerala's peak electricity demand is likely to exceed 7,000 megawatts by 2026-27 and if so, the details thereof;

(b) whether it is also a fact that electricity demand has increased across the country due to electric vehicle charging and it is expected that demand for electricity may go up substantially due to increased demand for electric vehicles;

(c) whether the Government is aware that the increased electricity demand due to surge in electrical vehicles may cause deficit in electricity; and

(d) if so, the steps taken by the Government in this regard?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) : As per Mid-term Review of 20th Electric Power Survey (EPS) report, published by the Central Electricity Authority, the estimated peak demand of Kerala is estimated to be 6,022 MW by FY 2026-27.

(b) to (d) : There has been increase in electricity demand in the country due to several factors such as rapid economic growth, expanded household electrification, increasing urbanization, rising living standards and the growing use of energy-intensive technologies like air conditioners and Electric Vehicles.

As per midterm review of 20th EPS, the electricity demand due to Electric Vehicle (EV) charging is estimated to be 63,651 MU (about 2.35 % of projected total demand) by FY 2031-32. Adequate generation capacity has been planned to meet the rising demand of electricity in the country including due to rise in Electrical Vehicles.

The installed electricity generation capacity in the country is 485 GW as on June, 2025. As per National Electricity Plan (Generation) published in May, 2023, installed generation capacity of the country is likely to increase to about 870 GW in 2031-32. The Government of India has taken following steps to increase the generation capacity of the country:

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(a) The projected thermal (coal and lignite) capacity requirement by the year 2034–35 is estimated at approximately 3,07,000 MW as against the 2,11,855 MW installed capacity as on 31.03.2023. To meet this requirement, Ministry of Power has envisaged to set up an additional minimum 97,000 MW coal and lignite based thermal capacity.

Thermal capacities of around 11,680 MW have already been commissioned since April 2023 till June 2025. In addition, 38,935 MW (including 5,695 MW of stressed thermal power projects) of thermal capacity is currently under construction. Further, contracts for 15,440 MW thermal capacity have been awarded in FY 2024-25 and is due for construction. To meet the projected demand in the country, 35,460 MW of coal and lignite based candidate capacity has been identified, which is at various stages of planning in the country.

(ii) 13,463.5 MW of Hydro Electric Projects are under construction. Further, 9,802 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(iii) 6,600 MW of Nuclear Capacity is under construction and targeted to be completed by 2029-30. 7,000 MW of Nuclear Capacity is under various stages of planning and approval.

(iv) 1,58,450 MW Renewable Capacity including 74,150 MW of Solar, 30,080 MW of Wind and 53,750 MW Hybrid power is under construction while 62,000 MW of Renewable Capacity including 46,010 MW of Solar and 15,990 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.

(v) In energy storage systems, 8,250 MW/49,500 MWh Pumped Storage Projects (PSPs) are under construction. Further, a total of 5,780 MW/34,680 MWh capacity of Pumped Storage Projects (PSPs) are concurred and yet to be taken up for construction. Out of these, 3,500 MW/21,000 MWh capacity of Pumped Storage Projects (PSPs) are under bidding and 15,829 MW/51,106 MWh Battery Energy Storage System (BESS) are currently under various stages of construction/ bidding.

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