GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.734
ANSWERED ON 07.12.2023

ENERGY STORAGE SYSTEM

734. SHRI RAVNEET SINGH BITTU:

Will the Minister of POWER be pleased to state:

(a) whether the Government has notified the National Framework for promoting energy storage system and if so, the details thereof;

(b) whether the Government has set a target for achieving 50 per cent cumulative installed capacity from non-fossil fuel-based energy sources by 2030;

(c) if so, the details thereof and the progress achieved in this regard;

(d) whether the National Framework for promoting energy storage system would help accelerate the transition towards renewable energy system; and

(e) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : Yes, Sir. The Government issued a 'National Framework for promoting Energy Storage Systems' in August, 2023 for the development and deployment of Energy Storage Systems to facilitate energy transition in the country.

(b) & (c) : As per the updated Nationally Determined Contribution (NDC) submitted to the United Nations Framework Convention for Climate Change (UNFCCC), India has committed to achieve 50 percent cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030. As on 31.10.2023, a total of 186.46 GW (43.8%) non-fossil fuel-based capacity has been installed in the country out of an overall installed electricity capacity of 425.5 GW.

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(d) & (e) : India's energy mix is set to undergo a transition from fossil fuel sources to non-fossil fuel based sources dominated by Renewable Energy (RE) in the future. However, solar and wind energy are not available round the clock. To facilitate transition from fossil fuel-based sources to RE sources, it is crucial to make RE dispatchable and available round the clock. Energy Storage Systems (ESS) play a key role in achieving this objective by storing energy generated from RE sources when it is available for use when the sun is not shining or the wind is not blowing. They also help in addressing RE variability, enhancing grid stability, facilitating energy/peak shifting, providing ancillary support services and fostering greater integration of RE. The National Framework for promoting Energy Storage Systems will encourage and create an ecosystem for development of Energy Storage based on requirements and financial feasibility, to guarantee affordable, clean, reliable and environmentally sustainable power for everyone.

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