GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1917
ANSWERED ON 09.03.2026

IMPLEMENTATION OF NATIONAL SMART GRID MISSION (NSGM)

1917. SHRI KESRIDEVSINH JHALA:
SMT. KIRAN CHOUDHRY:
SHRI NARAYANA KORAGAPPA:
SHRI CHUNNILAL GARASIYA:

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

(a) the key objectives of the National Smart Grid Mission (NSGM) and the manner in which the mission aligns with the objective of developing a modern, efficient and resilient power sector in the country;

(b) whether Government has identified specific components and technologies under NSGM including smart metering, energy storage systems, demand response systems and grid automation solutions and, if so, the details thereof;

(c) the challenges, if any, faced in the implementation of NSGM and the steps taken to address such challenges; and

(d) the funds allocated, released and utilised under NSGM so far?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b) : National Smart Grid Mission (NSGM) was launched by the Government of India (GoI) in 2015 to plan and monitor the implementation of policies and programs related to Smart Grids in India.

The key components of the mission were:

- Providing assistance in the formulation of projects, including pre-feasibility studies and project appraisal.
- Providing funding to projects to support the deployment of smart grid technologies.
- Focusing on training and capacity building for stakeholders in the power sector.

The NSGM has contributed to the development of the Smart metering ecosystem through support in framing standards, implementation of various pilot projects using Advanced Metering Infrastructure (AMI) including smart metering, Head End Systems (HES) and Meter Data Management Systems (MDMs) and preparing the Standard Bidding Documents for implementation of AMI across the country.

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(c) : The implementation of NSGM faced challenges including standardized implementation, lack of skilled manpower, and capacity constraints within distribution utilities.

The above challenges were addressed through the following steps:

- Standard Bidding Document for AMI Service Providers for implementation across the country was prepared.
- Capacity Building programs for training manpower were conducted. A total of 475 professionals were trained under NSGM.
- Third Party Audits to monitor pilot projects and outcomes were conducted.

(d) : Out of the allocation of Rs.155.67 Cr., a total of Rs.72.27 Cr. were released under NSGM. The scheme stands closed on 31.03.2024.

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