Smart Metering Adoption: 4.76 Crore Smart Meters Installed

To Promote Smart Monitoring of Power Consumption, Efficiency in Power Distribution and Clean Energy Transition

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Under Revamped Distribution Sector Scheme (RDSS), 20.33 crore smart meters have been sanctioned based on the proposal submitted by the States. In addition, many States have installed smart meters under the State schemes or externally aided projects. Till date 4.76 crore smart meters have been installed in the country under various schemes. State wise details are enclosed at Annexure.

Under RDSS, smart metering is being carried out through Public Private Partnership (PPP) in TOTEX (i.e total expenditure which is sum of capital expenditure and operational expenditure) mode. The Advanced Metering Infrastructure Service Provider (AMISP) is responsible for supplying, maintaining and operating the metering infrastructure post installation.

To promote indigenization in Smart Meters, this Ministry, after deliberations with stakeholders, has taken various steps:

1. In July 2023 smart meters were included in the Annexure I of Public Procurement (Preference to Make in India), Order.
2. Presently, the minimum local content in smart meters is to be 60%.
3. In addition, since the Head End System (HES) and Meter Data Management (MDM) System are vital components of the Advanced Metering Infrastructure, 100% MLC in MDM and HES was mandated w.e.f. 01.01.2025.

Several key initiatives have been undertaken for smart monitoring of electricity consumption at all levels. These include:

i. Smart meters provide consumers with real-time data on their energy usage.
ii. The data generated from smart meters at the system level including Feeders and Distribution Transformers and consumer level gives complete insights regarding energy accounting and is being used by the Distribution utilities for conducting energy audits.
iii. The shift to prepaid smart meters allows for better budgeting for consumers and improved cash flow & billing efficiency for utilities.
iv. Monitoring at the substation and grid level involves automation and integration of IT systems to improve reliability and efficiency. SCADA (Supervisory Control and Data Acquisition)/ DMS (Distribution Management System) systems have been sanctioned under RDSS which help in reducing outages and improving response times to faults through remote monitoring and control, thus improving the efficiency and reliability of power distribution networks.

v. Funds have been allocated under the scheme for modernisation works including strengthening and upgrading distribution infrastructure, including substations, transmission lines, and underground cabling. The digitalization and modernization of the grid is essential for integration of renewable energy sources into the Distribution network, thereby facilitating the clean energy transition in the country.

vi. Further, this Ministry is also actively supporting the Technology Solution Providers (TSPs), including startups to develop and scale up solutions that leverage the data from smart meters for various use under RDSS.

Annexure

Sl. No.	State	Total Installed Meters as on 15.11.2025
1	Andaman & Nicobar	75,200
2	Andhra Pradesh	20,17,269
3	Arunachal Pradesh	42,267
4	Assam	49,60,048
5	Bihar	82,37,246
6	Chandigarh	24,214
7	Chhattisgarh	30,53,925
8	Delhi	2,60,000
9	Goa	-
10	Gujarat	31,28,262
11	Haryana	8,47,467
12	Himachal Pradesh	7,65,932
13	Jammu and Kashmir	10,15,139
14	Jharkhand	9,71,708
15	Kerala	75,303
16	Ladakh	57,509

17	Madhya Pradesh	31,65,608
18	Maharashtra	73,98,415
19	Manipur	21,866
20	Meghalaya	-
21	Mizoram	18,983
22	Nagaland	27,262
23	Odisha	4,500
24	Puducherry	227
25	Punjab	18,06,108
26	Rajasthan	18,28,078
27	Sikkim	79,635
28	Tamil Nadu	1,35,201
29	Telangana	8,882
30	Tripura	1,17,565
31	Uttar Pradesh	65,06,420
32	Uttarakhand	3,73,530
33	West Bengal	5,79,668
	Total	**4,76,03,437**

This Information was given by the Minister of State for Power, Shri Shripad Yesso Naik, in a written reply in the Rajya Sabha today.

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