

Revamped Distribution Sector Scheme (RDSS)

An Overview

Revamped Distribution Sector Scheme

Gol has announced the **Revamped Distribution Sector Scheme (RDSS)** with an outlay of INR 3.04 Lakh Cr. to support distribution companies in undertaking large scale reforms in the distribution sector in July 2021.

Scheme Objectives

Improve quality and reliability of supply to consumers through financially sustainable and operationally efficient Distribution sector

Reduce AT&C loss on pan India level to 15% by 2024-25

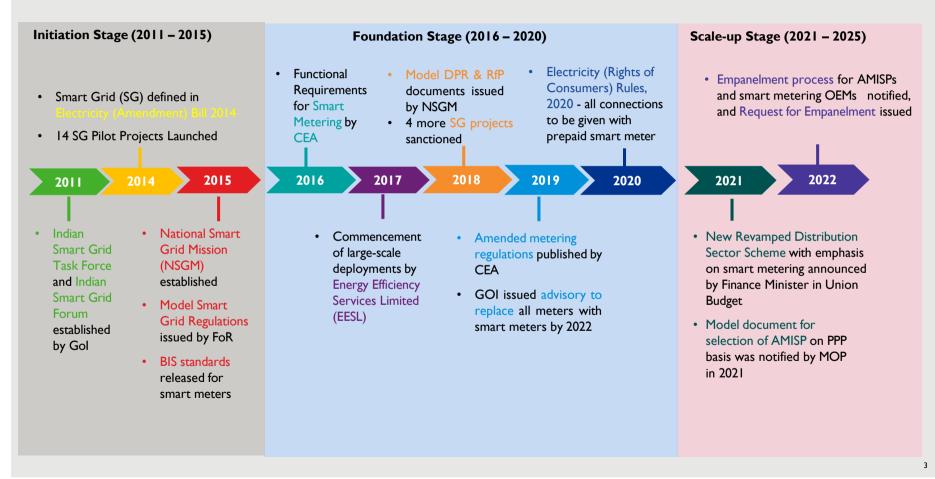
Reduce ACS-ARR Gap on pan India level to nil by 2024-25

To be achieved through

PART A PART B Distribution Infrastructure strengthening **Smart Metering and related AMI** 2 Training & Capacity Building and other Infrastructure & modernization **Enabling & Supporting Activities** Implementation of smart metering along with Distribution infrastructure works for strengthening Supporting and enabling components of the Ministry, associated AMI incl. technology-based solution and and modernization including SCADA and ERP training and capacity building, Awards & Recognitions unified billing and collection system. etc. INR 1.51 Lakh Cr INR 1.52 Lakh Cr. INR 1,430 Cr GBS: INR 23,300 Cr GBS: INR 73.301 Cr GBS: INR 1.030 Cr

All ongoing approved projects under IPDS and DDUGJY will be subsumed under current scheme

Smart Metering Journey so far...



Advantages of smart meters

Power procurement cost optimization

 Improving the ability to deploy advanced tariff regimes and other demand-side management initiatives, optimize power procurement costs and improve load

management

Peak Load Management

 Increasing load management during peak load times, ensuring more efficient use of grid resources/upgrade deferral

Upgrade planning

 Helping utilities better understand power grid needs, facilitating better system planning

Operational costs

- Reducing meter reading costs as meters are read remotely
- Lowering the cost to service customers via increased customer self-service (fewer bill queries and complaints will reduce the need for site visits)

Revenue Management

Fault & loss

mitigation

Upgrade planning

Operational

costs

Benefits to

consumers

Power procurement

cost

optimization

Peak load

Managemen

Revenue Management

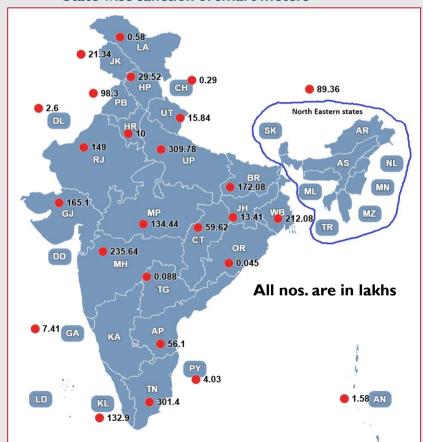
- Enabling timely billing to improve the revenue management through steady cash flow
- Improve collection to bill ratio

Fault & Loss Mitigation

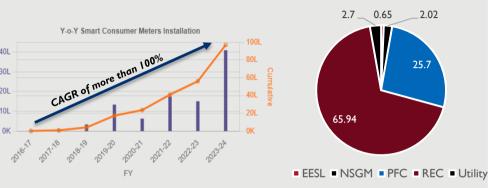
- Allowing system faults be notified and located quickly, following power cuts and interruptions
- Supporting energy accounting, leading to more accurate measurements of distribution losses

Current status of smart meters

State wise sanction of smart meters







Major highlights

- Max smart meters are sanctioned to the states of UP,
 TN and Maharashtra.
- Exponential growth in installation of smart meters in the last 3 years
- PFC and REC are leading the smart meter installation across India

Smart Meters – a big investment opportunity?

Smart Meters – a big investment opportunity:	
Background	Description
Revamped Distribution Sector Scheme	Replace 250 million conventional meters with smart meters
	 Enabling private sector participation by competitive selection of Advanced Metering Infrastructure Service Providers (AMISP)
	O Scale of the smart meter program and the completion timelines, necessities infusion of large upfront capex
	o 109.3 mn awarded and 9.7 mn installed
USD 12 billion debt financing opportunity	 Total Financing requirement of USD 20 bn, at a conservative estimate of INR 6,000/ meter
	 Government of India grant of USD 3 billion (15%)
	o Equity of USD 5 billion
	Debt of USD 12 billion
Challenges	Operational Challenges
	 Interoperability with the existing discom IT systems, meter data managements systems
	Financing Challenges
	 Availability of Debt Financing – dependence on balance sheet financing
	DISCOMs as counter parties raises risk perception
Encouraging Developments	 Investor Response – USD 2 bn platform sponsored by Genus Power received Investment from GIC, Singapore
	• Impact of Smart Meters – Enhanced revenue collection in DISCOMs of Bihar is being reported

Why is financing a challenge? – USAID SAREP findings

Based on secondary research

- Discoms as the counterparties to the AMISP contract potentially raise risk perception of investors
- Scale of smart meter rollout envisaged under RDSS is huge vis-à-vis current installations
- New Business model with limited private players

Based on stakeholder discussions

- Operationalization of the payment security mechanism (PSM) by Discoms
- Support from promoter: Requirement of undertakings/guarantees for additional comfort
- Limited data/track record of operational history

3/18/2024

Possible options to support financing smart meters

 Dedicated line of credit from DFIs to domestic FIs and thereafter FI disburses loans to AMISPs Recycling of capital through models such as InvITs

Option I

Option 2

• Loan Guaranty for the debt facility of AMISPs (Credit enhancement through DFI support to enhance lending to AMISPs)

Option 3

Thank You

