

# Getting it Right

## Smart metering of electricity consumers in India

*A snapshot of analysis and recommendations by Prayas (Energy Group)*

India targets to install **250 million** smart meters for consumers by 2022. **0.8%** of this target has been met by December 2020. According to the National Smart Meter Program (NSMP) [Dashboard](#), till date, major installations have been in the following states:



**Need for better data reporting:** Utilities in Uttar Pradesh have claimed installation of **24 lakh** smart meters at the end of FY21, but NSMP shows only **11 lakh** installations.

Metering is a crucial interface between utility and consumers. Hence, it requires focused effort to retain trust, reliability, accuracy and convenience in the metering and billing systems.

**Transparent, accountable, and participatory mechanisms** are needed to ensure effective implementation of large scale smart meter programmes.

### What can utilities do?

- Conduct extensive pilot projects.
- Carry out detailed cost benefit analysis (CBA).
- Improve DT/ feeder metering for better loss tracking.
- Share data on progress, challenges in public domain.

### How to ensure a consumer centric approach?

- Resolve challenges for remote temporary disconnections, ease of recharging.
- Ensure access to smart meter data for understanding own consumption patterns.

### What can electricity regulators do?

- Mandate regulatory approval of smart metering roll-out plans, based on detailed CBA and lessons from pilot projects. Also, conduct similar mid-term evaluations.
- Mandate submission of quarterly update reports of roll-outs.
- Revise tariff regulations to include cost-sharing mechanisms between utilities and consumers.
- Issue clear regulations for remote disconnection criteria for pre-paid smart meter use.
- Improve performance indicators and compensation criteria.
- Mandate submission of energy audits.

Smart meter data is **personal data**. At high resolutions it can reveal personal information.

### How to ensure data privacy and consumer protection?

- Ahead of the personal data protection legislation, Ministry of Power should evolve a framework for handling smart meter data, and finalize it in consultation with stakeholders.
- Regulators should include aspects of data-sharing protocols, purposes, grievance redressal, security etc.
- Utilities could appoint a data protection officer to get various aspects of privacy right.