

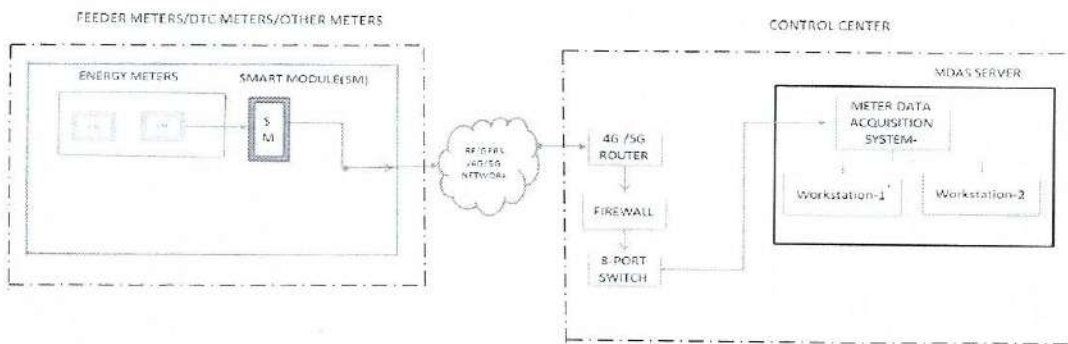
metering systems.

e. Data Safety Protection:

Provision for robust data safety measures is essential to protect against data theft and unauthorized access. Distribution Licensees should implement encryption protocols, access controls, and cybersecurity measures to safeguard sensitive metering data. Compliance with CEA Regulations for data protection and best practices should be prioritized to mitigate the risk of data breaches and ensure privacy.

4. Operational components and support:

The Commission also proposes a detailed schematic diagram with the following operational components with defined application layer protocol and standards for metering application, telemetry application and control applications, having the following features:



- a) Metering System: Retrofitting of existing digital/static energy meter with smart read module to read meter data and shall be equipped with advanced measurement capabilities, allowing for accurate monitoring and recording of energy consumption patterns with feature essential functionalities such as interval data recording, tamper proof and basic communication capabilities.
- b) Communication System: Effective communication is essential for transmitting metering data to utility providers and enabling remote monitoring and control functionalities. Low-cost smart modules shall utilize cost-effective communication technologies such as RF (Radio Frequency) or cellular networks for data transmission as the case may be.

These communication systems should be optimized for reliability and efficiency while minimizing infrastructure costs.

c) HES (Head-End System): The HES serves as the central data management platform for aggregating, processing, and analyzing metering data collected from smart modules. In low-cost implementations, HES functionalities shall be streamlined to focus on essential data processing tasks, such as data validation and basic analytics. HES solutions shall offer scalability and affordability, making them suitable for low-cost metering deployments.

d) Operational Support: Shall contain the meter data management information system for generating the report and alerts.

5. Reading a meter:

Distribution licensee shall conduct meter readings once every six months to ensure that energy consumption data is regularly updated, allowing for more precise energy audit and monitoring of usage patterns.

6. Powers to relax:

The Commission may by general or special order, for reasons to be recorded in writing may relax any of the provisions of these Guidelines on its own motion or on an application made before it by an interested person.

7. Powers to amend:

The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provision of these Guidelines.

By the Order of the Commission


Secretary

Date :17.04.2024

Place: Bengaluru