

Meter Data Collection & Management



The Meter Data Collection & Management service is designed to allow all members to implement advanced metering infrastructure (AMI) technology, while minimizing the overall cost to members. The service greatly reduces the need for specialized local information technology talent, and maximizes value from the collected data.

Overview

WPPI purchases, hosts, and maintains a centralized Meter Data Management System (MDMS) called eMeter and a centralized AMI collection engine for both AMI partner systems (Elster & Sensus). Members have access to use the MDMS for no upfront cost other than Customer Information System (CIS) integration costs. Members have access to the AMI collection engine at a fraction of the upfront cost of installing a local system. Members pay an annual service fee for licensing, maintenance and support of the MDMS and AMI collection engine. Through this service members gain economies of scale with AMI that allow them to effectively compete with the services offered by the investor owned utilities (IOU) competitors.

Shared MDMS and AMI collection engines benefit members individually and collectively. The burden of system maintenance is reduced for members while enabling access to a feature rich data management system at a lower cost than could be achieved by an individual member.

WPPI Support

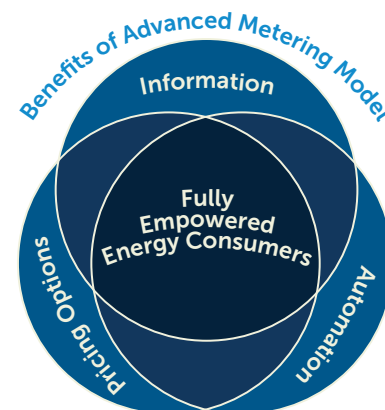
WPPI staff will support members in the collection and use of AMI data with:

- Supply and licensing of all server hardware and software required to operate the MDMS and AMI systems.
- Upgrade software as necessary to maintain a reliable system.
- Frame data into monthly billing determinants (on peak, off peak, etc.) to support standard and complex billing methodologies based on various rate structures
- As requested by members with residential, general service and small power advanced metering, provide annual time-of-day (TOD) comparison to identify customers that would benefit by being on a TOD rate.

- Provide members with a periodic report containing all available alarms collected by the network including exception reports such as zero consumption reads and non-responding meters.
- Provide reports that can be used for distribution planning
- Develop additional reports including predefined reporting and ad-hoc queries
- Add, remove, and configure system users specifying read only and read/write access as well as limiting views to the data based on roles and responsibilities defined by the utility.
- Maintain 3 years of historical data for all active accounts
- Provide disaster recovery solutions via data replication to an alternate data center with two business day or less recovery time.

WPPI Validation of MDM Service Requests:

As an additional service option for members, WPPI will handle and validate all MDM service requests (electric and water) in energyIP for all member customer data. WPPI will identify anomalies and communicate with member staff when to verify outage occurrences and inform them of metering issues.



Member Participation

To participate in the Meter Data Collection and Management service, members must be using the NorthStar CIS system and a partner AMI system (Elster or Sensus.) Members are responsible for installing and maintaining the meters and associated communication infrastructure that will be used by the collection engine to collect interval meter data. Members also provide the communications between AMI collection points and the WPPI wide area network. Member staff participate in the setup and installation of the AMI and MDMS software to support the members utility needs. These include:

- Workshops to define member MDMS needs
- Working with WPPI staff to define member specific rule sets to be used in the daily validation, editing, and estimation of meter data
- Training for system software upgrades.
- Perform reoccurring tasks required to support customer billing including: monitor the daily MDMS reports and troubleshoot failed meter reads
- Perform data validation, editing, and estimation of data needed for billing
- Produce the meter reading reports necessary to bill retail customers
- Perform MDMS activities related to customer move in/out and other service orders

For Members who elect to have WPPI resolve MDM service requests, the utility should review and respond to requests from WPPI staff regarding verifying customer outages, potential meter issues detected and AMI communication issues preventing reliable meter reading.

Cost

Initial Startup Fees:

- Sensus: \$14,500 service startup fee
- Elster: \$25,000 service startup fee

Estimated Initial CIS Implementation Fees:

- NorthStar: \$2,500 implementation fee
- Actual fees are passed through from NorthStar to Member on an as billed basis.

Ongoing annual fees:

Billing will be based on the number of active meters during each billing period.

Year	Base	Per Meter Per Year
2023	\$6000	\$2.25

WPPI Validation of MDM Service Requests fees:

Number of Meters	Monthly Fee
<200	90
200 - 4,000	\$225
>4,000	\$450

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