

**SHENANDOAH VALLEY ELECTRIC COOPERATIVE  
MT. CRAWFORD, VA**

**METERING SERVICES & OWNERSHIP RIDER-Q**

**AVAILABILITY**

This Rider is available upon written request to the Cooperative by Consumers served on Rate Schedules "CQ", "GQ", "PHQ" and "PPQ", except as specified below.

**DEFINITION**

Metering Services shall consist of Data Pulses, Read-Only Remote Access, Energy Data Services, or any combination thereof.

Advanced Meter(ing) shall be defined as a meter (1) capable of storing electric consumption data at specified time intervals compliant with existing tariffs and in conformance with applicable performance specifications, and (2) capable of remote meter reading.

**METERING SERVICES**

Data Pulses

Data Pulses shall consist of demand pulse signals and/or synchronizing time signals, and are available for obtaining unedited, near real-time energy data.

Upon request, demand pulse signals and/or synchronizing time signals will be provided by the Cooperative to the Consumer, or upon Consumer consent a Consumer's authorized Competitive Service Provider. The Consumer makes an initial payment for the installation of wiring and equipment necessary to provide any of the following signal options:

Demand Pulse Signal	\$500.00
Synchronizing Time Signal	\$150.00
Both Signals	\$650.00

If the Consumer's load control equipment is dependent on data obtained from metering transformers, transducers, thermal converters or other solid-state metering devices, the above charges will be determined on a case-by-case basis. The Consumer is responsible for any additional costs associated with signal equipment maintenance and/or changes in signal equipment resulting from a change in the Consumer's load.

Read-Only Remote Access

Read-Only Remote Access is available for obtaining unedited time interval energy data from Advanced Metering.

Upon request, the Cooperative will provide Read-Only Remote Access to Advanced Metering (via a communication link) to the Consumer, or upon Consumer consent a Consumer's authorized Competitive Service Provider. This communication link shall be consistent with the Cooperative's communication protocol and will be utilized by the Cooperative to obtain meter

data for billing. The Consumer's Read-Only Remote Access utilization shall not interfere with the Cooperative's normally scheduled meter interrogation time periods, which may change from time to time and will be available to the Consumer upon request. The following charges shall apply:

One-time setup fee	\$116.00 / account
Communication link usage	\$17.77 / month/meter

### Energy Data Services

Energy Data Services are available for obtaining edited, validated bill-quality time interval energy data. Advanced Metering is required for the provision of Energy Data Services.

Upon request, the Cooperative will provide Energy Data Services to the Consumer, or upon Consumer consent a Consumer's authorized Competitive Service Provider. The following setup fee, along with selected monthly or daily data file fee shall apply:

Setup fee	\$99.00 / account
Monthly energy data files <sup>1</sup>	\$6.95 / month/meter
Daily energy data files <sup>2</sup>	\$29.95 / month/meter

<sup>1</sup>Monthly service - The Cooperative provides energy data in 15-minute, 30-minute or 60-minute increments. The data is updated once per month concurrent with the Consumer's bill and posted to a password secured Internet site in a downloadable file format. The data is posted within three (3) days of the Consumer's regularly scheduled meter read date subject to the Cooperative's ability to render such service.

<sup>2</sup>Daily service – The Cooperative remotely reads the consumer meter each business day and posts an energy data file to a password secured Internet site in a downloadable format. The data will be available in 15-minute, 30-minute or 60-minute increments. Data will be posted by 10 am each business day subject to the Cooperative's ability to render such service.

The Consumer is responsible to provide the hardware (computer and internet connection) necessary to retrieve the interval load data.

Customized file formats. Data will be made available in several standard formats that may change periodically as required to accommodate changes in technology, consumer needs, etc. Consumers may request a customized file format for a fee, however the Cooperative reserves the right to deny the request. The Cooperative will provide a cost estimate to perform requested customizations.

Energy data analysis. The Cooperative may offer optional energy data analysis solutions to the Consumer requesting Energy Data Services. Energy data analysis services will be provided at mutually agreed upon prices, but not less than the incremental costs to provide these services.

### CONSUMER'S WITHOUT ADVANCED METERING

Any Consumer, including those served on Rate Schedule "R", may request Advanced Metering if it is not currently supplied as standard metering in accordance with the terms of the Rate Schedule under which the Consumer receives electric service. The Cooperative shall reply to the Consumer in writing within five (5) business days, acknowledging receipt of the

request and explaining the process and prerequisites for commencing and completing the work. The following charges shall apply:

One-time installation/removal fee \$572.00/ meter  
Monthly Advanced Metering fee<sup>1</sup> \$36.47 / month/meter  
Monthly Advanced Metering fee<sup>2</sup> \$34.30 / month/meter

<sup>1</sup>Applicable to Consumers with a watt-hour meter as standard tariff metering.

<sup>2</sup>Applicable to Consumers with an indicating demand meter as standard tariff metering.

Upon Consumer completion of the applicable prerequisites, including payment of the one-time installation/removal fee, the Cooperative shall complete the work within forty-five (45) calendar days, or as promptly as working conditions permit. Advanced Metering shall be limited to those models currently deployed by the Cooperative.

## METER OWNERSHIP

### Ownership Conditions

Consumers with monthly billing demands of 300 kW or above shall have the option to purchase Advanced Metering. Upon Consumer consent, a Consumer's authorized Competitive Service Provider shall also have the option to purchase Advanced Metering on behalf of the Consumer. Advanced Metering owned by either the Consumer or the Consumer's authorized Competitive Service Provider shall be classified as Consumer-owned Advanced Metering. Consumer-owned Advanced Metering shall be limited to ownership of the meter. Ownership of supplemental components, including but not limited to meter cabinets, test switches, current transformers, potential transformers and associated wiring connections, shall remain with the Cooperative.

The Consumer shall pay all costs associated with the removal and testing of any existing electric metering equipment, and the installation and testing of the Consumer-owned Advanced Metering equipment. In the event a Consumer-owned Advanced Meter fails, the Consumer or their authorized Competitive Service Provider shall supply the Cooperative an equivalent Advanced Meter within 48 hours after notification of the Consumer by the Cooperative. Failure to supply an equivalent Consumer-owned Advanced Meter within this timeframe will result in the Cooperative installing a Cooperative-owned Advanced Meter. The Consumer shall be charged \$186.00 for each occurrence the Cooperative installs a Consumer-owned or Cooperative-owned Advanced Meter.

Advanced Metering may be purchased directly from the Cooperative or from the Cooperative's meter vendor. In the event Advanced Metering is purchased directly from the Cooperative, the cost will be determined on a case-by-case basis.

Consumer requests to purchase Advanced Metering shall be submitted, in writing, to the Cooperative. Upon receipt of the request, the Cooperative shall respond to the Consumer, in writing within ten (10) business days, acknowledging receipt of the request, explaining the process and identifying the prerequisites, including payment of any costs, for commencing and completing the Consumer request. Upon Consumer completion of the prerequisites, including payment of any costs, the Cooperative shall complete the request within forty-five (45) calendar days, or as promptly as working conditions permit.

### Limitations on Consumer-Owned Advanced Meters

Advanced Metering and associated telemetering equipment must be compatible with the Cooperative's protocols and standards to ensure meter reading, meter data interval collection and billing system compatibility. Additionally, Advanced Metering must meet generally accepted accuracy and reliability standards for interval recording metering, including but not limited to ANSI C12. All Advanced Metering shall be sealed and locked by the Cooperative between calibrations, and each party shall have the right to be present during a calibration of the Advanced Metering. The Cooperative will maintain a list of equipment that meets its protocols and standards and will be available to the Consumer upon request.

Consumers may request additional equipment to be added to the list and the Consumer and Cooperative will work together in good faith to evaluate whether the additional equipment is compatible with the Cooperative's protocols and standards. The Consumer shall be responsible for all costs for the Cooperative to evaluate the compatibility of such additional equipment, as well as any additional costs associated with the implementation and maintenance of such equipment. Any dispute arising under this section that cannot be resolved between the parties shall be taken to the Commission for resolution.

### LATE PAYMENT CHARGE

Applies to this Rider

### TERM

The Consumer may discontinue any of the Metering Services contained herein upon thirty (30) days written notice to the Cooperative. The Cooperative reserves the right to withdraw the Energy Data Services provision of this Rider upon thirty (30) days written notice to the Consumer.

### GENERAL

Upon request, the Cooperative shall make available twelve (12) months of historical edited interval data to the Consumer, or the Consumer's authorized Competitive Service Provider, at a fee of \$40 per meter, per request. This fee applies per meter, per twelve (12) month period.

All Advanced Metering will be used for determining loads starting with the first meter read date following the installation. All Advanced Metering shall be installed by the Cooperative and shall be used for billing, capacity obligation determination, transmission obligation determination and energy reconciliation. The Cooperative shall have full electronic and physical access to the meter and shall continue to provide all metering Services which include, but are not limited to, maintenance, testing, programming, reading, reporting, data maintenance, data validation and data estimation. All Advanced Metering used for billing will be maintained and tested by the Cooperative in accordance with applicable Commission Orders, Rules and Regulations.

The Consumer, or upon Consumer consent a Consumer's authorized Competitive Service Provider, may submit requests in writing for the Cooperative to evaluate additional functionality that is within the capability of the Cooperative's Advanced Metering. The Cooperative shall respond to the Consumer in writing within five (5) business days acknowledging receipt of the request. Additionally, the Cooperative shall submit the feasibility, estimated cost, prerequisites and process for providing the request in writing within thirty (30) days. Upon completion of the prerequisites, including payment of costs, the Cooperative shall

complete the request within forty-five (45) calendar days, or as promptly as working conditions permit.

The Consumer shall pay all incremental costs of Advanced Metering Services above those charges that the Cooperative has included in its tariffs for standard metering. Additional Services requested by the Consumer and approved by the Cooperative will be provided at charges as provided by the Cooperative.

In accordance with the terms of the Rate Schedule under which electric service is delivered, Advanced Metering shall be used for the determination of Consumer loads, regardless of the Consumer's selection of Competitive Service Provider, unless the Consumer's load deteriorates below Cooperative-established Advanced Metering threshold eligibility levels.

Metering Services as described in this Rider are supplied in addition to the standard metering information required by the applicable Rate Schedule. The Cooperative does not accept responsibility for accuracy or malfunction of the signal equipment providing the Data Pulses, or the inability of a Consumer to obtain Read-Only Remote Access to Advanced Metering after read-only functionality has initially been provided.

A Confirmation Letter detailing the conditions of service shall be executed, when appropriate, between the Consumer and the Cooperative.