HomeWorks Tri-County Electric Cooperative
Schedule LRE - Large Renewable Energy Program
Generators With A Capacity Of 1 MW And Less

Availability

In order to facilitate the generation and transmission Cooperative's ("G&T") expanded standing offer for 10 MW of solar and wind energy and to ensure the ongoing availability of distributed renewable energy, this offer is available to Member-Consumers with a Large Renewable Energy Agreement on file with the Cooperative on or after June 17, 2024 who operate solar or wind renewable electric generation facilities with a nameplate capacity of 1 MW or less and are interconnected with the Cooperative's system, to generate a portion or all of the Member-Consumer's own electricity. If a Member-Consumer has more than one electric generator, the generator's rating(s) shall be summed and the sum may not exceed 1 MW.

The Cooperative's Large Renewable Energy Program is available on a first come, first serve, limited basis until the G&T's standing offer expires upon full 10 MW subscription.

Upon enrolling in the Large Renewable Energy Program, Member-Consumers shall be eligible to continue participation for a term of ten years. A participating Member-Consumer may terminate participation in the Cooperative's Large Renewable Energy Program at any time and for any reason.

Member-Consumer Eligibility

To be eligible to participate in the Large Renewable Energy Program, Member-Consumers must (1) generate a portion or all of their own retail electricity requirements using a solar or wind renewable electric generator, and (2) be Full Requirements Service Member-Consumers taking service under the Cooperative's applicable service tariff. The availability charge of the applicable service tariff shall be paid in full by the Member-Consumer for each billing period - large renewable energy credits cannot be applied to the availability charge.

Member-Consumers wishing to participate in the Large Renewable Energy program shall obtain a Large Renewable Energy Application from the Cooperative and submit the completed application, including the $100.00 application fee, for review. Upon approval of the Large Renewable Energy Application, the Cooperative shall issue a Large Renewable Energy and Interconnection Agreement to be signed by the Member-Consumer, the Cooperative, and the G&T. A copy of the signed agreement will be kept on file at the Cooperative. A signed Large Renewable Energy and Interconnection Agreement ("Agreement") is required prior to interconnection of the Member-Consumer's generator to the Cooperative's facilities.

Member-Consumers must complete construction and meet commercial operation of the Member-Consumer Facility within 180 days of signing the Agreement.

The interconnection device used to connect the Member-Consumer's renewable energy generator with the Cooperative's facilities shall comply with the requirements of IEEE standard 519 and 1547, and Underwriters Laboratories standard UL-1741 Scope 1.1a for utility-interactive (grid-connected) power systems. The Cooperative may require reasonable and adequate insurance coverage by the Member-Consumer and the Member-Consumer shall provide proof of liability coverage as may be required by the Cooperative.

The generation equipment must be located on the Member-Consumer's premises, serving only the Member-Consumer's premises, and must be intended primarily to offset a portion or all of the Member-Consumer's

requirements for electricity. At the Member-Consumer's option, the generation capacity shall be the aggregate nameplate capacity of the generator(s) (in kWh AC).

The Member-Consumer is required to provide the Cooperative with the capacity rating in kW of the generating unit(s) and a projection of the annual kWh output of the generating unit(s) when completing the Cooperative's Large Renewable Energy Application.

Safety & Reliability Requirements

The Member-Consumer shall submit for the Cooperative's review detailed electric diagrams, equipment nameplate data, including the interface device and control system of the Member-Consumer's power source and a site plan.

The Member-Consumer's control and protection system and site plan must be acceptable to the Cooperative and in accordance with these safety and reliability standards. This system shall provide for immediate automatic shutdown or separation of the Facility and the Cooperative system in the event of momentary or extended loss of power from the Cooperative, including loss of one or more phases if the Member-Consumer is generating three phase power. The shutdown or separation must continue until normal utility service is restored. The shutdown or separation shall occur when frequency, voltage, and/or current deviate from normal utility standards. The Member-Consumer shall be liable if the Member-Consumer's protection system fails to function.

A disconnecting device suitable for use as a protective tag location may be required to be accessible and in reasonably close proximity to the billing meter.

The completed installation must meet all local, state, and national codes and regulations and is subject to inspection by proper enforcement authorities before commencement of parallel operation. In addition, the Cooperative may, at its discretion, inspect or test the facility at any time.

The Member-Consumer shall advise the Cooperative prior to making any revisions to the Facility, the control system, or the interface between the two power systems after the installation. Any such revision must be acceptable to the Cooperative.

Should the parallel operation of the Facility cause interference or adversely affect voltage, frequency, harmonic content or power factor in the Cooperative's system or other Member-Consumers' service, the Cooperative may require disconnection or parallel operation until the condition has been corrected.

The interconnection device used to connect the Member-Consumer's renewable energy generator with the Cooperative's facilities shall comply with the requirements of IEEE standard 519 and 1547, and Underwriters Laboratories standard UL-1741 Scope 1.1a for utility-interactive (grid-connected) power systems. The Cooperative may require reasonable and adequate insurance coverage by the Member-Consumer, and the Member-Consumer shall provide proof of liability coverage as may be required by the Cooperative.

The generation equipment must be located on the Member-Consumer's premises, serving only the Member-Consumer's premises, and must be intended primarily to offset a portion or all of the Member-Consumer's requirements for electricity. The generation capacity shall be the aggregate nameplate capacity of the generator(s) (in kW AC).

The Member-Consumer is required to provide the Cooperative with the capacity rating in kW of the generating unit(s) and a projection of the annual kWh output of the generating unit(s) when completing the Cooperative's Large Renewable Energy Application.

Metering

The Member-Consumer's usage and excess generation shall be determined using hourly metering with separate registers measuring power flow in each direction. If there is a significant initial incremental cost to provide a meter measuring power flow in each direction above the cost for meters provided for similarly situated non-generating Member-Consumer's, the difference in cost shall be paid by the Member-Consumer. Any service upgrades, protective or power quality equipment/devices necessary to accommodate the output of the generating unit(s), as determined by the Cooperative, shall be at the Member-Consumer's expense. In the case of meter malfunction, all missing hours of production are excluded from the calculation of "Excess Generation" (defined below).

Reimbursement of Costs

The Member-Consumer shall pay for all costs associated with any addition to (or alteration of) the Cooperative's equipment required for metering and for the safe and reliable operation of the Facility in parallel with the Cooperative's system, as noted above, as well as an interconnection study, at the request of the Cooperative. The Member-Consumer shall also pay for costs of changes required due to safety or adverse effects on other Member-Consumers and/or on the Cooperative caused by the connection and/or operation of the Member-Consumer's renewable energy generator.

The Cooperative may require reasonable and adequate insurance coverage by the interconnecting Member-Consumer and the Member-Consumer shall provide proof of liability coverage as may be required by the Cooperative.

Monthly Charges and Credits

"Excess Generation" means energy and associated renewable energy attributes, including, but not limited to Renewable Energy Credits, generated by the Member-Consumer's renewable energy generator and not consumed at the Member-Consumer's location (and delivered to the Cooperative).

The Member-Consumer shall pay the full retail rate in accordance with the Cooperative's standard service tariff applicable to the Member-Consumer for energy delivered to the Member-Consumer by the Cooperative. The Member-Consumer shall be credited the Hourly Real Time Locational Marginal Price at the Midcontinent Independent System Operator's CONS.WOLV node (or successor entity or delivery point) on an annual production weighted average basis as calculated below, for Excess Generation, subject to the Excess Generation Cap as described below. Energy produced by the Member-Consumer's solar or wind renewable energy generator and consumed at the Member-Consumer's location without flowing onto the Cooperative's distribution system is not billed by the Cooperative, compensated by the Cooperative, or displayed on the billing statement.

A. Excess Generation Cap

   The annual Excess Generation credit is limited as follows:

   Generator Aggregate Nameplate Capacity x 8760 hours x 20% x 10%

B. Applying Excess Generation Credit

The G&T shall pay the Excess Generation Credit to the Member-Consumer through its agent, the Cooperative, on an annual basis, by February 28, and the Cooperative shall credit such amount on the next normal bill cycle after receipt of the Excess Generation Credit.

For illustrative purposes only, a sample calculation of the Credit and Cap follows below. The calculation assumes a 1 MW installation and arbitrary metered outflow amounts.

Large Renewable Energy Program
Excess Generation Credit Calculation and Cap Operation

Hour	CONS.WOLV LMP ($/kWh)	Metered Outflow kWh [Member Facility]	Hourly Value (LMP x Metered Outflow)
1	$ 0.02	0	$ -
2	$ 0.02	0	$ -
3	$ 0.02	0	$ -
4	$ 0.03	0	$ -
5	$ 0.03	0	$ -
6	$ 0.03	0	$ -
7	$ 0.03	0	$ -
8	$ 0.03	5	$ 0.17
9	$ 0.04	6	$ 0.22
10	$ 0.04	7	$ 0.27
11	$ 0.04	8	$ 0.32
12	$ 0.04	9	$ 0.38
....	....	....	....
8749	$ 0.05		$ -
8750	$ 0.05	6	$ 0.29
8751	$ 0.05	5	$ 0.25
8752	$ 0.05	4	$ 0.21
8753	$ 0.05	3	$ 0.16
8754	$ 0.06	2	$ 0.11
8755	$ 0.06	1	$ 0.06
8756	$ 0.06	0	$ -
8757	$ 0.06	0	$ -
8758	$ 0.06	0	$ -
8759	$ 0.07	0	$ -
8760	$ 0.07	0	$ -
		20,440	$ 886.22
	Production Weighted Average LMP ($/kWh) [Sum of Hourly Value divided by Sum of Metered Outflow kWh]		$ 0.04
	Actual Metered Outflow kWh [Sum of Metered Outflow kWh for all hours]		20,440
	Excess Generation Cap as Defined kWh [1,000 kW x 8760 x 20% x 10%]		175,200
	Annual Payment [Production Weighted Average LMP multiplied by lower of Actual Metered Outflow or Excess Generation Cap]		$ 886.22