

ADDENDUM 1

Logan City Light and Power



**DISTRIBUTED GENERATION METERING
POLICY**

July 2019

Applicability

This policy sets forth requirements for the interconnection of customer distributed energy generating facilities within Logan City electric distribution systems. The Distributed Generation Metering Program is available on a first-come, first-served basis to customers located within the City's current service territory who own and operate a solar, wind, hydro or biomass electric generator located on the customer's premises, with the following conditions:

- a. Intended to offset part or all of the customer's own average annual electrical requirements.
- b. The capacity of the installation shall not exceed 10 kW for residential and 500 kW for commercial or industrial customers.
- c. Interconnected with Logan City's electric system; and
- d. Operates in parallel with Logan City's distribution system.

Definitions

The following words and terms, when used in this policy, shall have the following meanings, unless the context clearly indicates otherwise.

"City" means the Logan City Light and Power Department (LCL&P).

"Customer" means a Logan City Light and Power customer that has distributed generation energy, on the customer's side of the meter and receives an electric utility bill from the City of Logan.

"Customer-generating facility" means the equipment used by a customer generator to generate, manage, and monitor electricity. A Customer-Generating Facility typically includes an electric generator and/or an equipment package, as defined herein.

"Vendor" means the seller and/or installer of the distributed generation equipment being sold and installed at the customer's facility"

"Distribution System" means that portion of an electric system which delivers electricity from transformation points on the transmission system to points of connection at a customer's premises.

"IEEE Standard" means the standards published by the Institute of Electrical and Electronic Engineers, available at www.ieee.org.

"Inverter" means a device that converts direct current power into alternating current power that is compatible with power generated or supplied by Logan City Light and Power.

"NEC" and "NEC" means the most current version of the National Electrical Code and National Electrical Safety Code respectively.

"Distributed Generation Metering" means a system of measuring and billing for the electricity supplied by Logan City Light and Power and the purchase of electricity generated by the customer by an eligible renewable energy system and fed onto the electric grid over the applicable billing period.

"Distributed Generation" means a system that generates electricity derived from the sun, wind, hydro or biomass and is located behind the customer's billing meter.

"UL Standard" means the standards published by the Underwriters Laboratory available at www.ul.com

"Weighted average wholesale cost" - means the average delivered cost of Logan City Light and Power's wholesale contracts and generation units plus transmission costs weighted by the amount of kilowatt-hours generated by each less transmission losses for the previous 12 month period.

Application

Logan City Light and Power (LCL&P) will offer Distributed Energy Generation Metering to their Customers that generate renewable energy on the Customer side of the meter, provided that they meet the specifications outlined herein and do not individually or in aggregate with existing installations exceed the safe capacity of the City's distribution system as a whole or individual distribution feeders in their local area.

If, in a given monthly billing period, a customer supplies more electricity to the electric distribution system than the City delivers to the Customer, the City will credit the Customer for the excess according to the rates set forth in the City's "Distributed Generation Energy Metering Rate, Schedule 10".

Special Conditions

A. Certification: A customer-generating facility and/or the related equipment must be certified as complying with the following standards, as applicable, prior to connecting to the City's distribution system:

- a. IEEE Standard 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems, as amended and supplemented.
- b. UL Standard 1741, Inverters, Converters, and Controllers for Use in
- c. Independent Power Systems, as amended and supplemented.
- d. An equipment package shall be considered certified for interconnected operation if all components have been submitted by a manufacturer to a nationally recognized testing and certification laboratory and has been tested and listed by the laboratory for continuous interactive operation with an electric distribution system in compliance with the applicable codes and standards listed above. The LCL&P Department has the right to approve or deny other renewable energy systems components on a case-by-case basis.
- e. All Vendor's shall be certified by Logan City Light and Power by attending

a one-time mandatory Vendor Orientation Meeting. See Electrical Fee Schedule for costs.

B. Approval and Inspection

- a. Prior to Interconnection any Customer desiring a Distributed Generation Metering Agreement must make application with and receive approval by the LCL&P Department. The customer must complete a form with applicable information about the interconnection for accounting and safety purposes. All modifications or improvements required to Logan City's distribution system due to the customer - generating facility shall be paid for by the customer. This *may* require the customer to bring their current electrical service up to the standards required by Logan City Policy.
- b. After installation of the customer-generating facility and prior to production of energy, the system shall be inspected and approved by the Logan City Building Department and the LCL&P Department. The Customer must also obtain any necessary permits and pay all applicable fees.
- c. A bi-directional meter that is capable of measuring power flow in and out of the customers metering equipment shall be installed by the utility (See the Electrical Fees Schedule). The meter will be one that is compatible with standard meter bases required by any customer of equal size and type.
- d. A production meter capable of measuring the energy produced from the distributed generation source shall be installed (See the Electrical Fees Schedule).
- e. The City shall have the right to inspect a customer-generating facility after interconnection approval is granted, at reasonable hours and with reasonable prior notice to the Customer. If the City discovers that the customer-generating facility is not in compliance with the requirements of this policy, and the noncompliance adversely affects the safety or reliability of the electric distribution system, the City may require the Customer to disconnect the customer-generating facility until compliance is achieved.

C. Testing and Maintenance

Once a Distributed Generation Metering interconnection has been approved under this policy, the City may require a Customer to test or perform maintenance on its facility as per the following:

- a. Maintenance or changes to the existing installation;
- b. Any manufacturer-recommended testing or maintenance; and any post-installation testing necessary to ensure compliance with IEEE 1547 or to ensure safety.

D. Disconnection and Metering

- a. The City shall have the right to disconnect the customer-generating facility in the event it causes system problems. The Customer will have the option

of correcting the problem, at which time the system will be re-inspected before beginning operation again.

- b. The Customer shall be required to install a manual disconnect located within 10 feet of the meter. The disconnect shall be readily accessible by City authorized personnel and located outside any fencing.
- c. The Customer shall be required to meet all current applicable electrical codes (NEC, NESC) and the City's metering and disconnection requirements that may include but is not limited to the installation of a new meter base and panel and relocation of the electrical service.

E. Liability

- a. The Customer shall be responsible for any damage caused by the customer-generating facility to City's distribution system and/or neighboring services. The Customer shall be responsible for the installation and maintenance of applicable protection equipment, and for any damage caused by improper application, maintenance or faulty equipment. LCL&P shall not be liable directly or indirectly for permitting or continuing to allow an attachment of a Distributed Generation Metering facility, or for the acts or omissions of the customer-generator that cause loss or injury, including death, to any third party.

ADDENDUM 2

CITY OF LOGAN LIGHT & POWER RATE SCHEDULE #10 DISTRIBUTED GENERATION ENERGY METERING

EFFECTIVE DATE: First billing after August 1, 2019

AVAILABILITY:

At any point on the City's interconnected system where there are facilities of adequate capacity.

APPLICATION:

This schedule is for electric service applications for customers that have alternate renewable electric power generation on the customer side of the electric meter. This schedule is intended for customers that generate electric energy from renewable sources that they would otherwise purchase from the utility.

A customer's generating facility used for distributed energy generation metering shall be equipped with metering equipment that can measure the flow of electricity in both directions. The city will install a meter capable of measuring bi-directional energy flow. The cost to the customer for this meter is set forth in the Logan City Light and Power Electrical Fee Schedule. The customer shall also install a production meter that is capable of measuring the flow of produced energy coming from the distributed generation source. The cost to the customer for this meter is set forth in the Logan City Light and Power Electrical Fee Schedule.

The metering will normally be accomplished through use of a single bi-directional meter and the distributed generation production meter. At the customer's request and expense an additional meter may be installed for the customer's purposes. Other requirements are outlined in the Logan City Light and Power Distributed Energy Metering Policy.

The customer shall adhere to all service and billing requirements including the installation of approved metering equipment as per Logan City Electric Service Requirements and applicable City Codes.

ENERGY RATES AND PAYMENTS

For energy purchased from the utility, residential customers will be charged the current Rate Schedule 1. Commercial customers will be charged under the applicable current Commercial Rate Schedule which they qualify for based on criteria in the electric rate schedules and connection fee schedules. All of the rate schedules may be changed from time to time.

Residential (Rate Schedule 1)

Excess production will be purchased back from the customer at the price listed in the schedule below. The purchase may show up as a credit on the City monthly utility bill.

The purchase schedule will begin at the weighted average retail rate. As the installed residential solar power in the City reaches certain installed solar capacity thresholds, the rate will be adjusted. Eventually the buyback price will equal the previous year's weighted wholesale average plus 1.5 cents.

Excess Energy Purchase Schedule:

Step 1: Up to 2500 kW installed:	\$0.098 (weighted average retail rate)
Step 2: 2500 kW installed:	Weighted average wholesale cost + \$0.035
Step 3: 3000 kW installed:	Weighted average wholesale cost + \$0.025

Step 4: 3500+ kW installed: Weighted average wholesale cost + \$0.015

Step kW's are total installed *residential* kW's of solar within Logan City's service area.

Step 1 will be adjusted for any future retail rate adjustments if necessary.

Both the weighted average wholesale cost and installed solar capacity will be published and communicated to the public once every 12 months.

General Service – Distribution Voltage (Rate Schedule 6)

Buyback price will equal the previous year's weighted wholesale average plus 1.5 cents.

High Volume Industrial Service (Rate Schedule 7)

Buyback price will equal the previous year's weighted wholesale average plus 1.5 cents.

SEASONAL SERVICE:

This schedule is not available as a seasonal service.

SERVICE CHARGES:

Refer to the current Logan City Light and Power Electrical Fees Schedule for current pricing information pertaining to fees, service charges. There will be no additional charges for distributed generation energy metered customers that would not be applied to any other equal customer.

CONNECTION FEE:

Refer to the current Logan City Light and Power Electrical Fees Schedule for current pricing information pertaining to fees, service charges and re-read fees. Additional requirements and options for this particular schedule are outlined in the Logan City Light and Power Distributed Generation Metering Policy.

FORCE MAJEURE:

Neither the City nor Customer shall be subject to any liability or damages due to the inability of the City to serve the Customer's load due to lack of available power and energy or other conditions beyond the City's control. In the event of natural disasters or acts of God such as earthquakes, floods, or severe storms, neither party shall be liable for damages due to lack of ability for operations which affect the other party economically or in any other way. Should any of the foregoing occur, no minimum billing fees shall be added to the customers' bill during the time the customer cannot accept service. Any applicable fees shall resume at the time the customer is able to accept service.