



ANNUAL NET METERING REPORT FOR 2018

April 11, 2019

Manager, Energy Department
Missouri Public Service Commission

Pursuant to 4 CSR 240-20.065 (10)(A), KCP&L and KCP&L - Greater Missouri Operations (GMO) submits the following Annual Net Metering Report for 2018.

Item (A) 1 of the following table represents the total number of customer-generator facilities connected to our distribution system at year end.

Item (A) 2 represents the total estimated generating capacity of customer-generators that are connected to our distribution system.

Item (A) 3 represents the total estimated net kilowatt-hours received from customer-generators.

	Customers (A) 1	Generating Capacity (kW) (A) 2	Net kWhs Received (A) 3
KCP&L – MO	1,700	26,268.88	11,183,616
KCP&L - GMO	1,937	34,744.45	20,727,165
Total	3,637	61,013	31,910,781

Also, pursuant to 4 CSR 240-20.065 (10)(B), please find enclosed a copy of the standard information, Attachment A, regarding net metering and interconnection requirements provided to customers or posted on the Company's website.

This information can also be found at the following link:

<https://www.kcpl.com/save-energy-and-money/home/programs/renewable-energy/net-metering>

Please let me know if you have any questions.

Sincerely,

Lisa Casteel
Regulatory Affairs
816-556-2705

Attachment A



[My Account](#)  [Outages & Weather](#)  [Save Energy & Money](#)  [Customer Service](#) 

[Home](#) [Save Energy & Money](#) [Home](#) [Programs](#) [Solar and Renewable Energy](#) [Net Metering](#)

Solar and Renewable Energy

Interested in fulfilling your own energy needs? Generating energy helps you and the environment.

Whether you turn to wind, solar or some other method of generating your own energy, connecting to the electrical grid can raise questions. KCP&L can help you make it work.

How it works

It starts with a net-metering billing arrangement. This allows customers who produce their own energy from renewable sources to earn a credit on electric bills for the extra energy that flows back into our distribution system. Using a special meter, we measure the electricity you generate from solar panels or a wind turbine. That way, we can determine both the electricity you use and the electricity you produce.



The energy you generate is used to offset an equal amount of power supplied by KCP&L in the billing period. Energy produced in excess of your need (or net kWh) is credited to your bill at our avoided cost. This amount is less than retail because it reflects only energy—not the generation, transmission, distribution and administrative costs included in retail rates.

Conditions and Requirements

When it comes to net metering, there are a few requirements to bear in mind:

- ✓ Residential customers can connect a renewable generation facility up to 100 kW.
- ✓ You must be interconnected with our grid to allow you to feed extra electricity you generate into our system.
- ✓ Protective equipment must be installed to ensure the safety of our crews and the electrical grid.

First Steps to Net Metering

1. Submit the appropriate net metering application (listed below) for your state.
2. Upon approval, install your renewable system.

[Missouri Online Application](#)

[Kansas Online Application](#)

or view and print

- ✓ [Missouri Tariff & Application](#)
- ✓ [GMO Tariff & Application](#)
- ✓ [Kansas Tariff & Application](#)

For commercial systems greater than 100 kW, view the [parallel generation tariff](#).

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 8th Revised Sheet No. 110
Canceling P.S.C. MO. No. 1 7th Revised Sheet No. 110

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

DEFINITIONS:

- A. Avoided fuel cost means avoided costs described in 4 CSR 240-20.060 used to calculate the Company's cogeneration rate filed in compliance with 4 CSR 240-3.155. The information used to calculate this rate is provided to the commission biennially and maintained for public inspection.
- B. Commission means the Public Service Commission of the State of Missouri.
- C. Customer-Generator means the owner or operator of a qualified electric energy generation unit which:
 - (1) Is powered by a renewable energy resource;
 - (2) Is an electrical generating system with a capacity of not more than one hundred kilowatts (100 kW DC);
 - (3) Is located on premises that are owned, operated, leased, or otherwise controlled by the Customer-Generator;
 - (4) Is interconnected and operates in parallel phase and synchronization with the Company and has been approved for interconnection by said Company;
 - (5) Is intended primarily to offset part or all of the Customer-Generator's own electrical energy requirements;
 - (6) Meets all applicable safety, performance, interconnection, and reliability standards established by the National Electrical Code, the National Electrical Safety Code, the Institute of Electrical and Electronics Engineers, Underwriters Laboratories, the Federal Energy Regulatory Commission, and any local governing authorities; and
 - (7) Contains a mechanism that automatically disables the unit and interrupts the flow of electricity onto the Company's electrical lines whenever the flow of electricity to the Customer-Generator is interrupted.
 - (8) For purposes of qualified electric energy generation systems powered by solar energy, Customer-Generator also includes a customer with solar generating equipment that is owned or operated by a third party, located on the Customer's premises pursuant to an equipment lease, services agreement or other similar arrangement with such third party, and otherwise meets the requirements set forth in sections (1) – (7) above.
- D. Distribution system means facilities for the distribution of electric energy to the ultimate consumer thereof.
- E. GMO or Supplier means KCP&L Greater Missouri Operations Company.
- F. Net metering means using metering equipment sufficient to measure the difference between the electrical energy supplied to a Customer-Generator by the Company and the electrical energy supplied by the Customer-Generator to the Company over the applicable billing period.
- G. Operational means all of the major components of the on-site system have been purchased and installed on the Customer-Generator's premises and the production of rated net electrical generation has been measured by the Company.
- H. REC means Renewable Energy Credit or Renewable Energy Certificate which is tradable, and represents that one (1) megawatt-hour of electricity has been generated from a renewable energy resource.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 4th Revised Sheet No. 110.1
Canceling P.S.C. MO. No. 1 3rd Revised Sheet No. 110.1

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

DEFINITIONS (continued):

- I. Renewable energy resources mean, when used to produce electrical energy, the following wind, solar thermal sources, hydroelectric sources, photovoltaic cells and panels, fuel cells using hydrogen produced by one (1) of the above-named electrical energy sources, and other sources of energy that become available after August 28, 2007, and are certified as renewable by the Missouri Department of Natural Resources or Missouri Department of Economic Development's Division of Energy.
- J. Staff means the staff of the Public Service Commission of the state of Missouri.

APPLICABILITY:

Applicable to Customer-Generators with a Company approved interconnection agreement. This schedule is not applicable where the Customer's electrical generating system exceeds 100 kW DC.

REC OWNERSHIP:

RECs created through the generation of electricity by the Customer-Owner are owned by the Customer-Generator, however, as a condition of receiving solar rebates for systems operational after August 28, 2013, customers transfer to the electric system all right, title and interest in and to the RECs associated with the new or expanded solar electric system that qualified the customer for the solar rebate for a period of ten (10) years from the date the Company confirmed the solar electric system was installed and operational.

COMPANY OBLIGATIONS:

- A. Net metering shall be available to Customer-Generators on a first-come, first-served basis until the total rated generating capacity of net metering systems equals five percent (5%) of the Company's Missouri jurisdictional single-hour peak load during the previous year. The Commission may increase the total rated generating capacity of net metering systems to an amount above five percent (5%). However, in a given calendar year, the Company shall not be required to approve any application for interconnection if the total rated generating capacity of all applications for interconnection already approved to date by the Company in said calendar year equals or exceeds one percent (1%) of the Company's single-hour peak load for the previous calendar year.
- B. A tariff or contract shall be offered that is identical in electrical energy rates, rate structure, and monthly charges to the contract or tariff that the Customer would be assigned if the Customer were not an eligible Customer-Generator but shall not charge the Customer-Generator any additional standby, capacity, interconnection, or other fee or charge that would not otherwise be charged if the Customer were not an eligible Customer-Generator.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 8th Revised Sheet No. 111
Canceling P.S.C. MO. No. 1 7th Revised Sheet No. 111

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

COMPANY OBLIGATIONS (continued):

- C. The availability of the net metering program shall be disclosed annually to each Customer with the method and manner of disclosure being at the discretion of the Company.
- D. For any cause of action relating to any damages to property or person caused by the generation unit of a Customer-Generator or the interconnection thereof, the Company shall have no liability absent clear and convincing evidence of fault on the part of the Company.
- E. Any costs incurred under this tariff by the Company not recovered directly from the Customer-Generator, as identified in the Qualified Electric Customer-Generator Obligations section shall be recoverable in the Company's rate structure.
- F. No fee, charge, or other requirement not specifically identified in this tariff shall be imposed unless the fee, charge, or other requirement would apply to similarly situated Customers who are not Customer-Generators.

CUSTOMER-GENERATOR LIABILITY INSURANCE OBLIGATIONS:

- A. Customer-Generator systems greater than ten kilowatts (10 kW DC) shall carry no less than one hundred thousand dollars (\$100,000) of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the net metering unit. Insurance may be in the form of an existing policy or an endorsement on an existing policy.
- B. Customer-Generator systems ten kilowatts (10 kW DC) or less shall not be required to carry liability insurance.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 6th Revised Sheet No. 112
Canceling P.S.C. MO. No. 1 5th Revised Sheet No. 112

For Missouri Retail Service Area

NET METERING INTERCONNECTION APPLICATION AGREEMENT ELECTRIC
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QUALIFIED ELECTRIC CUSTOMER-GENERATOR OBLIGATIONS:

- A. Each qualified electric energy generation unit used by a Customer-Generator shall meet all applicable safety, performance, interconnection, and reliability standards established by any local code authorities, the National Electrical Code, the National Electrical Safety Code, the Institute of Electrical and Electronics Engineers (IEEE), and Underwriters Laboratories (UL) for distributed generation; including, but not limited to, IEEE 1547, UL 1703 and UL 1741.
- B. The Company requires that a Customer-Generator's system contain a switch, circuit breaker, fuse, or other easily accessible device or feature located in immediate proximity to the Customer-Generator's metering equipment that would allow a Company worker the ability to manually and instantly disconnect the unit from the Company's distribution system.
- C. No Customer-Generator shall connect or operate an electric generation unit in parallel phase and synchronization with the Company without written approval by the Company that all of the requirements under paragraph C of the Interconnection Application/Agreement section of this tariff have been met. For a Customer-Generator who violates this provision, the Company may immediately and without notice disconnect the electric facilities of said Customer-Generator and terminate said Customer-Generator's electric service.
- D. A Customer-Generator's facility shall be equipped with sufficient metering equipment that can measure the net amount of electrical energy produced and consumed by the Customer-Generator. If the Customer-Generator's existing meter equipment does not meet these requirements or if it is necessary for the Company to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse the Company for the costs to purchase and install the necessary additional equipment. At the request of the Customer-Generator, such costs may be initially paid for by the Company, and any amount up to the total costs and a reasonable interest charge may be recovered from the Customer-Generator over the course of up to twelve (12) billing cycles. Any subsequent meter testing, maintenance, or meter equipment change necessitated by the Customer-Generator shall be paid for by the Customer-Generator.
- E. Each Customer-Generator shall, at least once every year, conduct a test to confirm that the net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero (0)) within two (2) seconds of being disconnected from the Company's system. Disconnecting the net metering unit from the Company's electric system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test.
- F. The Customer-Generator shall maintain a record of the results of these tests and, upon request, shall provide a copy of the test results to the Company.
 - (1) If the Customer-Generator is unable to provide a copy of the test results upon request, the Company shall notify the Customer-Generator by mail that the Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide the results of a test to the Company.

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KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 7th Revised Sheet No. 113
Canceling **P.S.C. MO. No.** 1 6th Revised Sheet No. 113

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

QUALIFIED ELECTRIC CUSTOMER-GENERATOR OBLIGATIONS (continued):

- (2) If the Customer-Generator’s equipment ever fails this test, the Customer-Generator shall immediately disconnect the net metering unit.
- (3) If the Customer-Generator does not provide the results of a test to the Company within thirty (30) days of receiving a request from the Company or the results of the test provided to the Company show that the unit is not functioning correctly, the Company may immediately disconnect the net metering unit.
- (4) The net metering unit shall not be reconnected to the Company’s electrical system by the Customer-Generator until the net metering unit is repaired and operating in a normal and safe manner.

DETERMINATION OF NET ELECTRICAL ENERGY:

Net electrical energy measurement shall be calculated in the following manner:

- A. For a Customer-Generator, the Company shall measure the net electrical energy produced or consumed during the billing period in accordance with normal metering practices for Customers in the same rate class, either by employing a single, bidirectional meter that measures the amount of electrical energy produced and consumed, or by employing multiple meters that separately measure the Customer-Generator’s consumption and production of electricity;
- B. If the electricity supplied by the Company exceeds the electricity generated by the Customer-Generator during a billing period, the Customer-Generator shall be billed for the net electricity supplied by the Company in accordance with normal practices for Customers in the same rate class;
- C. If the electricity generated by the Customer-Generator exceeds the electricity supplied by the Company during a billing period, the Customer-Generator shall be billed for the appropriate Customer charges for that billing period in accordance with the Company Obligations section of this tariff and shall be credited with the product of the excess kilowatt-hours generated during the billing period and the rate identified in Schedule Cogeneration Purchase, Sheet 102 in the following billing period. This rate is calculated from the Company’s avoided fuel cost; and
- D. Any credits granted by this subsection shall expire without any compensation at the earlier of either twelve (12) months after their issuance, or when the Customer-Generator disconnects service or terminates the net metering relationship with the Company.

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KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 7th Revised Sheet No. 114
Canceling P.S.C. MO. No. 1 6th Revised Sheet No. 114

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

NET METERING RATES:

The Company shall file on or before January 15 of each odd-numbered year for the Commission's approval in the Company's tariff, a rate schedule with a net metering rate that is the same rate as the utility's cogeneration rate. The Company's cogeneration rate is filed for the Commission's approval in the Company's tariff on or before January 15 of every odd-numbered year as required in 4 CSR 240-3.155 Requirements for Company Cogeneration Tariff Filings section (4). The cogeneration rate is stated in dollars per kilowatt-hour or cents per kilowatt-hour on the cogeneration rate tariff sheet (MO700, Sheet No. 102) and, likewise, the net metering rate shall be stated in dollars per kilowatt-hour or cents per kilowatt-hour on the net metering rate tariff sheet.

INTERCONNECTION APPLICATION/AGREEMENT:

- A. Each Customer-Generator and Company shall enter into the Net Metering Interconnection Application Agreement included herein.
- B. The solar rebate reference in the Net Metering Interconnection Application Agreement is applicable to the company.
- C. Applications by a Customer-Generator for interconnection of a qualified electric energy generation unit to the distribution system shall be accompanied by the plan for the Customer-Generator's electrical generating system including, but not limited to, a wiring diagram and specifications for the generating unit, and shall be reviewed and responded to by the Company within thirty (30) days of receipt for systems ten kilowatts (10 kW DC) or less and within ninety (90) days of receipt for all other systems. Prior to the interconnection of the qualified generation unit to the Company's system, the Customer-Generator will furnish the Company a certification from a qualified professional electrician or engineer that the installation meets the requirements of paragraph A and B of the Qualified Electric Customer-Generator Obligation section of this tariff. If the application for interconnection is approved by the Company and the Customer-Generator does not complete the interconnection within one (1) year after receipt of notice of the approval, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.
- D. Upon the change in ownership of a qualified electric energy generation unit, the new Customer-Generator shall be responsible for filing a new application/agreement.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 7th Revised Sheet No. 115
Canceling P.S.C. MO. No. 1 6th Revised Sheet No. 115
For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

APPLICATION STANDARDS:

When applying for approval of any renewable net metering installations or solar rebates, the Company will only accept and review applications adhering to the following application standards:

A. Net Metering Interconnection Agreements and Solar Rebate:

- (1) Applications shall be legible.
- (2) All applicable fields will be completely filled out as required. Incomplete applications will be returned.
- (3) The name and address on the application must match the name and address on the Customer bill. Otherwise, additional documentation should be provided to support the applicant's association with the account holder.
- (4) Application signatures must be made by persons who are, or officially represent established Customers of the Company.
- (5) Net Metering systems are to be sized to offset part or all of the Customer-Generator's own electrical energy requirements.
 - (a) For customers with twelve (12) months usage:
Last 12 month's net usage / 8760 hours in a year / capacity factor = maximum size of PV system that can be installed.
 - (b) For customers with less than twelve (12) months usage:
Load Worksheet is available on KCPL.com
 - (c) The Solar capacity factor is 0.144 and for Wind is 0.311

B. Single-line diagrams:

- (1) Diagrams will be project specific. Generic line drawings from specification manuals will not be accepted.
- (2) Diagrams must be legible. Drafting quality is preferred.

C. Installation plan:

- (1) A legible general site or plan drawing of the installation will be included. Detail architectural or construction drawings are not required.
- (2) A legible map of the location will be included. The general location of the installation and the location of the associated meter should be depicted.

D. Equipment specifications (Electrical requirements as defined in paragraph A and B of the Qualified Electric Customer-Generator Obligations section of this tariff):

- (1) Photovoltaic (PV) panel, Wind turbine, and Power inverter specification sheets are required proving UL certification, such as UL 1703. Non-UL certified equipment will not be accepted.
- (2) The system must include a UL Listed "Grid Support Utility Interactive Inverter" or inverters from Go Solar California's approve list, found at <http://www.gosolarcalifornia.ca.gov/equipment/inverters.php>.
- (3) If another certification agency is referenced in the specification sheet, please provide necessary documentation to associate the certification back to a UL standard.

E. Application submittal:

- (1) Applications will be accepted in hardcopy or electronic PDF format or through any online portal made available by the Company.
- (2) Hard-copy applications will only be accepted via mail delivery to the address on the Interconnection Application/Agreement.
- (3) Electronic-copy applications shall be submitted in a single file email, presented in PDF format.
 - (a) Unless the file size exceeds email limitations, multiple files will not be accepted.
- (4) Electronic-copy applications shall be emailed to: NetMeteringApp@kcpl.com.
- (5) Online submissions will be completed by following the appropriate link located on the Company's website.
- (6) All applications will be uniquely numbered and processed in the order received.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 5th Revised Sheet No. 116
Canceling P.S.C. MO. No. 1 4th Revised Sheet No. 116

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

APPLICATION STANDARDS (continued):

F. Pre-approval notification:

- (1) Pre-approval of your project will be provided by email after the Company review.
- (2) Pre-approval of projects prior to installation is preferred, but is not required.
 - (a) Projects installed prior to pre-approval may be subject to rework to bring the systems into compliance with this tariff.
 - (b) Rework resulting from early installation will be the responsibility of the Customer-Generator.
- (3) Incorrect or deficient applications will be rejected and the basis for the rejection provided.
- (4) An appeal or resubmittal of the application based on the rejection may be requested. If you choose to exercise an appeal or resubmittal of your application, please note that you will have one opportunity to make corrections in response to the conditions for rejection listed above.
 - (a) Appeal - a rejected application may be appealed once within 5 business days of the rejection of the application. An appeal should be based upon the conditions for rejection as indicated. An appealed application will not be returned to the end of the line during the appeal consideration. An appeal is not considered a re-submission of an application and should contain the following:
 - i. The reason for the customer's appeal.
 - ii. Detailed documentation of the appeal.
 - (b) Resubmittal - a rejected application may be re-submitted within 5 business days of the rejection of the application. One re-review will be allowed in order to address the omissions or deficiencies identified in the rejection. The one-time re-review will not be returned to the end of the line.

G. Project completion notification and request for inspection:

- (1) Notification of project completion will be in the form of email to: NetMeteringApp@kcpl.com.
- (2) The notification will reference the following:
 - (a) Name of Applicant (customer)
 - (b) Address of installation
 - (c) Photos of the meter, disconnect, and solar installation.
- (3) Installations that deviate from plans provided during pre-approval are subject to additional engineering review. Rework resulting from this deviation will be the responsibility of the Customer-Generator and may delay the operational date of the system.
- (4) The Company may apply a service charge for additional inspections or site visits. The service charge will be \$81 per occurrence.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 7th Revised Sheet No. 117
Canceling P.S.C. MO. No. 1 6th Revised Sheet No. 117

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING
SYSTEMS WITH CAPACITY OF ONE HUNDRED KILOWATTS (100 kW) OR LESS**

**KCP&L
PO Box 418679
Kansas City, MO 64141-9679
Attn: Solar Rebates/Net Metering**

For Customers Applying for Interconnection:

If you are interested in applying for interconnection to GMO's electrical system, you should first contact GMO and ask for information related to interconnection of parallel generation equipment to GMO's system and you should understand this information before proceeding with this Application.

If you wish to apply for interconnection to GMO's electrical system, please complete sections A, B, C, and D and attach the plans and specifications, including, but not limited to, describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the "Customer-Generator's System") and submit them to GMO at the address above. GMO will provide notice of approval or denial within thirty (30) days of receipt by GMO for Customer-Generators of ten kilowatts (10 kW DC) or less and within ninety (90) days of receipt by GMO for Customer-Generators of greater than ten kilowatts (10 kW DC). If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and GMO, it shall become a binding contract and shall govern your relationship with GMO.

**For Customers Who Have Received Approval of
Customer-Generator System Plans and Specifications:**

After receiving approval of your Application, it will be necessary to construct the Customer-Generator System in compliance with the plans and specifications described in the Application, sign and complete sections E and F of this Application, and forward this Application to GMO for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to GMO's system, the Customer-Generator will furnish GMO a certification from a qualified professional electrician or engineer that the installation meets the plans and specification described in the application. If a local Authority Having Jurisdiction (AHJ) requires permits or certifications for construction or operation of the qualified generation unit, a Customer-Generator must show the permit number and approval certification to KCP&L prior to interconnection. If the application for interconnection is approved by GMO and the Customer-Generator does not complete the interconnection within one (1) year after receipt of notice of the approval, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 7th Revised Sheet No. 118
Canceling P.S.C. MO. No. 1 6th Revised Sheet No. 118

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

**For Customers Who Have Received Approval of
Customer-Generator System Plans and Specifications (continued)**

Within 21 days of when the Customer-Generator completes submission of all required post construction documentation, including sections E and F, other supporting documentation and local AHJ inspection approval (if applicable) to the electric utility, the electric utility will make any inspection of the Customer-Generator's interconnection equipment or system it deems necessary and notify the Customer-Generator:

1. That the net meter has been set and parallel operation by Customer Generator is permitted; or,
2. That the inspection identified no deficiencies and the net meter installation is pending; or,
3. That the inspection identified no deficiencies and the timeframe anticipated for the electric utility to complete all required system or service upgrades and install the meter; or,
4. Of all deficiencies identified during the inspection that need to be corrected by the Customer-Generator before parallel operation will be permitted; or,
5. Of any other issue(s), requirement(s), or condition(s) impacting the installation of the net meter or the parallel operation of the system.

**For Customers Who Are Assuming Ownership or Operational
Control of an Existing Customer-Generator System:**

If no changes are being made to the existing Customer-Generator System, complete sections A, D, and F of this Application/Agreement and forward to GMO at the address above. GMO will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by GMO if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 7th Revised Sheet No. 119
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For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

A. Customer-Generator's Information

Name on GMO Electric Account: _____

Service/Street Address: _____

City: _____ State: _____ Zip Code: _____

Mailing Address (if different from above) _____

City: _____ State: _____ Zip Code: _____

E-mail address (if available): _____

Electric Account Holder Contact Person: _____

Daytime Phone: _____ Fax: _____ Email: _____

Emergency Contact Phone: _____

GMO Account No. (from Utility Bill): _____

If account has multiple meters, provide the meter number to which generation will be connected: _____

GMO Account No. (from Utility Bill): [Shall be inserted at the top of each page.]

B. Customer-Generator's System Information

Manufacturer Name Plate Power Rating: _____ kW AC and _____ kW DC.

Voltage: _____ Volts

System Type: Wind Fuel Cell Solar Thermal Photovoltaic Hydroelectric Other (describe) _____

Inverter/Interconnection Equipment Manufacturer: _____

Inverter/Interconnection Equipment Model No.: _____

Inverter/Interconnection Equipment Location (describe): _____

Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Distance from Meter: _____

Energy Storage Equipment Manufacturer (if applicable): _____

Energy Storage Capacity (if applicable): _____

Certify that the disconnect switch will be located adjacent to the Customer-Generator's electric service meter or explain where and why an alternative location of the disconnect switch is being requested:

Existing Electrical Service Capacity: _____ Amperes Voltage: _____ Volts

Service Character: Single Phase Three Phase

Total capacity of existing Customer-Generator System (if applicable): _____ kW DC

System Plans, Specifications, and Wiring Diagram must be attached for a valid application.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 2nd Revised Sheet No. 119.1
Canceling P.S.C. MO. No. 1 1st Revised Sheet No. 119.1

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

C. Installation Information/Hardware and Installation Compliance

Company Installing System: _____

Contact Person of Company Installing System: _____ Phone Number: _____

Contractor's License No. (if applicable): _____

Approximate Installation Date: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ Email: _____

Person or Agency Who Will Inspect/Certify Installation: _____

The Customer-Generator's proposed System hardware complies with all applicable National Electrical Safety Code (NESC), National Electrical Code (NEC), Institute of Electrical and Electronics Engineers (IEEE), and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1703, UL 1741 and IEEE 1547. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of GMO. The proposed System has a lockable, visible AC disconnect device, accessible at all times to GMO personnel and switch is located adjacent to the Customer-Generator's electric service meter (except in cases where GMO has approved an alternate location). The System is only required to include one lockable, visible disconnect device, accessible to GMO. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement. The Customer-Generator's proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to GMO's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when GMO's electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to GMO's electrical system when the electrical system is not energized or not operating normally.

Printed Name (Installer): _____

Signed (Installer): _____ Date: _____

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KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 4th Revised Sheet No. 119.2
Canceling P.S.C. MO. No. 1 3rd Revised Sheet No. 119.2

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

D. Additional Terms and Conditions

In addition to abiding by the Company's other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

1. **Operation/Disconnection**
If it appears to the Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator's System is adversely affecting safety, power quality, or reliability of the Company's electrical system, the Company may immediately disconnect and lock-out the Customer-Generator's System from the Company's electrical system. The Customer-Generator shall permit the Company's employees and inspectors reasonable access to inspect, test, and examine the Customer-Generator's System.
2. **Liability**
Liability insurance is not required for Customer-Generators of ten kilowatts (10 kW DC) or less. For generators greater than ten kilowatts (10 kW DC), the Customer-Generator agrees to carry no less than one hundred thousand dollars (\$100,000) of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator's System. Insurance may be in the form of an existing policy or an endorsement on an existing policy. Customer-Generators, including those whose systems are ten kilowatts (10 kW DC) or less, may have legal liabilities not covered under their existing insurance policy in the event the Customer-Generator's negligence or other wrongful conduct causes personal injury (including death), damage to property, or other actions and claims.
3. **Metering and Distribution Costs**
A Customer-Generator's facility shall be equipped with sufficient metering equipment that can measure the net amount of electrical energy produced or consumed by the Customer-Generator. If the Customer-Generator's existing meter equipment does not meet these requirements or if it is necessary for GMO to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse GMO for the costs to purchase and install the necessary additional equipment. At the request of the Customer-Generator, such costs may be initially paid for by GMO, and any amount up to the total costs and a reasonable interest charge may be recovered from the Customer-Generator over the course of up to twelve (12) billing cycles. Any subsequent meter testing, maintenance, or meter equipment change necessitated by the Customer-Generator shall be paid for by the Customer-Generator.
4. **Ownership of Renewable Energy Credits or Renewable Energy Certificates (RECs)**
RECs created through the generation of electricity by the Customer-Owner are owned by the Customer-Generator however, if the Customer-Generator receives a solar rebate, the Customer-Generator transfers to GMO all rights, title, and interest in and to the RECs associated with the new or expanded solar electric system that qualified the Customer-Generator for the solar rebate for a period of ten (10) years from the date the electric utility confirms the solar electric system was installed and operational.

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 2nd Revised Sheet No. 119.3
Canceling P.S.C. MO. No. 1 1st Revised Sheet No. 119.3
For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

D. Additional Terms and Conditions (continued)

5. Energy Pricing and Billing

The net electric energy delivered to the Customer-Generator shall be billed in accordance with the Utility's Applicable Rate Schedules. The value of the net electric energy delivered by the Customer-Generator to GMO shall be credited in accordance with the net metering rate schedule(s). The Customer-Generator shall be responsible for all other bill components charged to similarly situated customers.

Net electrical energy measurement shall be calculated in the following manner:

- (a) For a Customer-Generator, a retail electric supplier shall measure the net electrical energy produced or consumed during the billing period in accordance with normal metering practices for customers in the same rate class, either by employing a single, bidirectional meter that measures the amount of electrical energy produced and consumed, or by employing multiple meters that separately measure the Customer-Generator's consumption and production of electricity;
- (b) If the electricity supplied by the supplier exceeds the electricity generated by the Customer-Generator during a billing period, the Customer-Generator shall be billed for the net electricity supplied by the supplier in accordance with normal practices for customers in the same rate class;
- (c) If the electricity generated by the Customer-Generator exceeds the electricity supplied by the supplier during a billing period, the Customer-Generator shall be billed for the appropriate customer charges as specified by the applicable Customer-Generator rate schedule for that billing period and shall be credited an amount for the excess kilowatt-hours generated during the billing period at the net metering rate identified in GMO's tariff filed at the Public Service Commission, with this credit applied to the following billing period; and
- (d) Any credits granted by this subsection shall expire without any compensation at the earlier of either twelve (12) months after their issuance, or when the Customer-Generator disconnects service or terminates the net metering relationship with the supplier.

6. Terms and Termination Rights

This Agreement becomes effective when signed by both the Customer-Generator and GMO, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving GMO at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator's System from parallel operation with GMO's system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and GMO. This agreement may also be terminated, by approval of the commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

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P.S.C. MO. No. 1 3rd Revised Sheet No. 119.4
Canceling P.S.C. MO. No. 1 2nd Revised Sheet No. 119.4

For Missouri Retail Service Area

NET METERING INTERCONNECTION APPLICATION AGREEMENT ELECTRIC
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D. Additional Terms and Conditions (continued)

7. Transfer of Ownership

If operational control of the Customer-Generator's System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. GMO shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator's System. The person or persons taking over operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from GMO, before the existing Customer-Generator System can remain interconnected with GMO's electrical system. The new Application/Agreement will only need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Customer-Generator System completely understand the provisions of this Application/Agreement and agree to them. If no changes are being made to the Customer-Generator's System, completing sections A, D, and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the Customer-Generator System, GMO will assess no charges or fees for this transfer. GMO will review the new Application/Agreement and shall approve such, within fifteen (15) days if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. GMO will then complete section G and forward a copy of the completed Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with GMO's electrical system. If any changes are planned to be made to the existing Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics, then the Customer-Generator shall submit to GMO a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

8. Dispute Resolution

If any disagreements between the Customer-Generator and GMO arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

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KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 2nd Revised Sheet No. 119.5
Canceling P.S.C. MO. No. 1 1st Revised Sheet No. 119.5

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

D. Additional Terms and Conditions (continued)

(9) Testing Requirement

IEEE 1547 requires periodic testing of all interconnection related protective functions. The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator's net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from GMO's electrical system. Disconnecting the net metering unit from GMO's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by GMO, shall provide a copy of the test results to GMO. If the Customer-Generator is unable to provide a copy of the test results upon request, GMO shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to GMO, the results of a test. If the Customer-Generator's equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator's System from GMO's system. If the Customer-Generator does not provide results of a test to GMO within thirty (30) days of receiving a request from GMO or the results of the test provided to GMO show that the Customer-Generator's net metering unit is not functioning correctly, GMO may immediately disconnect the Customer-Generator's System from GMO's system. The Customer-Generator's System shall not be reconnected to GMO's electrical system by the Customer-Generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

I have read, understand, and accept the provisions of section D, subsections 1 through 9 of this Application/Agreement.

Printed name (Customer-Generator): _____

Signed (Customer-Generator): _____ Date: _____

Must be signature of the GMO account holder (customer)

E. Electrical Inspection

If a local Authority Having Jurisdiction (AHJ) governs permitting/inspection of project:

Authority Having Jurisdiction (AHJ): _____

Permit Number: _____

Applicable to all installations:

The Customer-Generator System referenced above satisfies all requirements noted in section C.

Inspector Name (print): _____

Inspector Certification: Licensed Engineer in Missouri _____ Licensed Electrician in Missouri _____

License No. _____

Signed (Inspector): _____ Date: _____

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KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. 1 3rd Revised Sheet No. 119.6
Canceling P.S.C. MO. No. 1 2nd Revised Sheet No. 119.6

For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

F. Customer-Generator Acknowledgement

I am aware of the Customer-Generator System installed on my premises and I have been given warranty information and/or an operational manual for that system. Also, I have been provided with a copy of GMO's parallel generation tariff or rate schedule (as applicable) and interconnection requirements. I am familiar with the operation of the Customer-Generator System.

I agree to abide by the terms of this Application/Agreement and I agree to operate and maintain the Customer-Generator System in accordance with the manufacturer's recommended practices as well as GMO's interconnection standards. If, at any time and for any reason, I believe that the Customer-Generator System is operating in an unusual manner that may result in any disturbances on GMO's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to GMO's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify GMO no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics. I acknowledge that any such modifications will require submission of a new Application/Agreement to GMO.

I agree not to operate the Customer-Generator System in parallel with GMO's electrical system until this Application/Agreement has been approved by GMO.

System Installation Date: _____

Printed name (Customer-Generator): _____

Signed (Customer-Generator): _____ Date: _____

G. Utility Application/Agreement Approval (completed by GMO)

GMO does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of the Customer-Generator's System or the Customer-Generator's negligence.

This Application is approved by GMO on this _____ day of _____ (month), _____ (year).

GMO Representative Name (print): _____

Signed GMO Representative: _____

H. Solar System Data (For Solar Installations only)

Solar Module Manufacturer: _____ Inverter Rating: _____ kW

Solar Module Model No.: _____ Number of Modules/Panel: _____

Module rating: _____ DC Watts System rating (sum of solar panels): _____ kW

Module Warranty: _____ years (circle on spec sheet)

Inverter Warranty: _____ years (circle on spec sheet)

Location of modules: _____ Roof _____ Ground Installation type: _____ Fixed _____ Ballast

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P.S.C. MO. No. _____ Revised Sheet No. 119.7
Canceling P.S.C. MO. No. 1 3rd Revised Sheet No. _____
For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

RESERVE FOR FUTURE USE

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. _____ Revised Sheet No. 119.8
Canceling P.S.C. MO. No. 1 2nd Revised Sheet No. 119.8
For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

RESERVE FOR FUTURE USE

KCP&L GREATER MISSOURI OPERATIONS COMPANY

P.S.C. MO. No. _____ Revised Sheet No. 119.9
Canceling P.S.C. MO. No. 1 2nd Revised Sheet No. 119.9
For Missouri Retail Service Area

**NET METERING INTERCONNECTION APPLICATION AGREEMENT
ELECTRIC**

RESERVE FOR FUTURE USE