

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6

3rd Revised

SHEET NO. 171CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 171APPLYING TO MISSOURI SERVICE AREAELECTRIC POWER PURCHASESELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS1. BILLINGa. Energy Pricing and Billing

Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:

- i. If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company's bill will reflect the net electricity supplied by Company and the Customer-Generator's current service classification.
- ii. If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company's bill will include a credit for the net electricity received by Company in accordance with the Net Metering Rate (Avoided Fuel Cost) in Section 1.c) below.

b. Minimum Bill

Net metering does not modify or eliminate any Customer obligation(s) or billing provision(s) of the Customer's current rate schedule for delivery of electric power and energy such as the Customer Charge or any minimum billing demand (if applicable).

c. *Net Metering Rate (Avoided Fuel Cost)

Summer Rate (Applicable during 4 monthly billing periods of June through September)

Summer

3.15¢ per kWh

Winter Rate (Applicable during 8 monthly billing periods of October through May)

Winter

2.90¢ per kWh

The above rates are updated during each odd-numbered year with the update typically effective February 15.

*Indicates Revision

DATE OF ISSUE January 15, 2019DATE EFFECTIVE February 14, 2019ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY**ELECTRIC SERVICE**MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.1CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.1APPLYING TO MISSOURI SERVICE AREA**ELECTRIC POWER PURCHASES****ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS (Cont'd.)*****2. APPLICATION**

This tariff applies to Company purchases of electric energy from Qualified Net Metering Units (hereinafter referred to as "Customer-Generator") under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act'. The Customer-Generator must meet the general technical requirements, testing requirements, and liability requirements listed under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act', as well as the requirements specified in the Customer-Generators' applicable rate class under the Company's Schedule 6 - Schedule of Rates for Electric Service. Service under this rate shall be evidenced by a contract between Customer-Generator and the Company per the Interconnection Application/Agreement for Net Metering Systems With Capacity of 100 kW or less.

The availability of net metering is limited to those types of generation that have been certified by the Missouri Department of Economic Development's Division of Energy as renewable energy resources and which is intended primarily to offset part or all of the customer-generator's own electrical energy requirements. Net metering cannot be elected in conjunction with "Optional Time-of-Day Rate" service of any of Company's rate schedule.

Company will provide net metering service until the total rated generating capacity used by Customer-Generators is equal to or in excess of five percent (5.0%) of Company's single-hour peak load during the previous year. However in a given calendar year, no retail electric supplier shall be required to approve any application for interconnection if the total rated generating capacity of all application for interconnection already approved to date by said supplier in said calendar year equals or exceeds one percent (1.0%) of said supplier's single-hour peak load for the previous calendar year.

3. CONTRACT

Whether or not purchases are made by Company under the standard rates, Company shall not be required to make any purchase from Customer-Generator until Company and Customer-Generator have entered into a written contract for such purchases.

4. GENERAL RULES AND REGULATIONS

All provisions of this tariff are subject to all Commission rules and regulations as may be revised from time-to-time. All terms of the tariff are also subject to the Commission's normal complaint and arbitration procedures.

*Indicates Change

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.2

CANCELLING MO.P.S.C. SCHEDULE NO. _____

SHEET NO. _____

APPLYING TO _____

MISSOURI SERVICE AREAELECTRIC POWER PURCHASESELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS (Cont'd.)GUIDELINE TECHNICAL REQUIREMENTS FOR PARALLEL OPERATION WITH THE COMPANY'S SYSTEMIntroduction

The minimum technical requirements for safe parallel operation of Customer-Generator's electrical generating facilities with the Company's system are set forth below. These requirements will serve as a guide for Company and Customer-Generator engineering when planning such an installation; however, it is recognized that each installation may have specific requirements other than those set forth herein as a result of each installation's unique nature.

General Technical Requirements1. Protection

Customer-Generator shall install protective devices capable of detecting fault conditions on both his system and the Company's system. These devices will separate Customer-Generator's system from the Company's system either directly or through an auxiliary device such as a circuit breaker. The separating device must be capable of interrupting the available fault current. The detection sensitivity and operating speed of these devices must be compatible with protective devices on the Company's system.

The Customer-Generator shall install equipment designed to automatically separate his system from the Company's system upon loss of the normal Company supply.

The Customer-Generator is responsible for protecting Customer-Generator's equipment in such a manner that faults or other disturbances on the Company's system or on Customer-Generator's system do not cause damage to his equipment.

Customer-Generator shall furnish information to Company regarding his proposed generation equipment and protective devices prior to parallel operation. Company will check the adequacy of this proposed equipment and its compatibility with protective devices on the Company's system and will either approve as submitted or specify additional equipment which will be required in order to begin parallel operation with the Company's system.

All protective relay settings that would affect any Company system relay settings will be specified by Company. These relays will be initially calibrated by Company to assure proper operation.

A manual visible disconnect switch must be provided which is under the exclusive jurisdictional control of the Company's dispatcher. This manual switch must have the capability to be locked out of service by a Company-authorized switchman.

DATE OF ISSUE May 31, 2013DATE EFFECTIVE June 30, 2013ISSUED BY Warner L. Baxter
NAME OF OFFICERPresident & CEO
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.3

CANCELLING MO.P.S.C. SCHEDULE NO. _____

SHEET NO. _____

APPLYING TO MISSOURI SERVICE AREAELECTRIC POWER PURCHASESELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS (Cont'd.)General Technical Requirements (Cont'd.)1. Protection (Cont'd.)

The above statements are the basic minimum protection requirements that would be associated with parallel generation. Additional requirements and/or equipment would depend on an in-depth study of each proposed connection.

2. Operation

Under certain conditions the intertie breaker (if one is required) must be operated by Customer-Generator in order for Company to operate the manual disconnect switch. Company may request this action for any of the following reasons:

- a. System emergency.
- b. Inspection of Customer-Generator's generating equipment or protective equipment reveals an unsafe condition.
- c. Customer-Generator's generating equipment interferes with other customers or with the operation of the Company's system.
- d. An outage is scheduled on the Company's supply circuit or feeder.

Customer-Generator shall be solely responsible for properly synchronizing his generating equipment with the Company's frequency and voltage. This includes resynchronizing his generator(s) after system outages or disturbances.

3. Quality of Service

The interconnection of Customer-Generator's generating equipment with the Company's system shall not cause any reduction in the quality of service being provided to other customers or cause any undesirable effect on any Company facilities. Such interconnection shall be pursuant to the latest revision of IEEE 519 and IEEE 1547.

The power factor of Customer-Generator's load with his generating equipment connected shall not be less than that specified by retail tariff for his applicable customer class.

4. Metering and/or Additional Distribution Equipment

The revenue metering for Net Metering shall be sufficient to 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 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.

DATE OF ISSUE May 31, 2013DATE EFFECTIVE June 30, 2013ISSUED BY Warner L. Baxter
NAME OF OFFICERPresident & CEO
TITLESt. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY**ELECTRIC SERVICE**MO.P.S.C. SCHEDULE NO. 64th RevisedSHEET NO. 171.4CANCELLING MO.P.S.C. SCHEDULE NO. 63rd RevisedSHEET NO. 171.4APPLYING TO MISSOURI SERVICE AREA**ELECTRIC POWER PURCHASES****ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS (Cont'd.)**General Technical Requirements (Cont'd.)4. Metering and/or Additional Distribution Equipment (Cont'd.)

At the request of the Customer-Generator, such costs may be initially paid for by 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 periods. Net Metering cannot occur until the installation of such meter(s) and/or additional distribution equipment has been completed.

5. Other Requirements

All Customer-Generator installations shall adhere to any applicable requirements of the National Electrical Safety Code, the National Electric Code, Institute of Electrical and Electronics Engineers (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, and Company's Electric Service Rules as set forth in published tariffs.

*6. Approval of Submitted Application and Design

Company will approve or reject the application and design submitted by Customer. If an application or design and the supporting documentation are materially incomplete, the application will be invalid and rejected and the customer and developer will be so notified.

Company will notify the customer and developer of any application or design deficiencies, errors or omissions identified or clarifications requested by Company.

Company will post information on its website www.ameren.com indicating what is required for an application to be considered complete as well as guidance regarding the types of deficiencies, errors, omissions or clarifications that, if corrected, will not result in a rejection.

*Indicates Change

DATE OF ISSUE July 27, 2018

DATE EFFECTIVE

August 28, 2018ISSUED BY Michael MoehnPresidentSt. Louis, Missouri

NAME OF OFFICER

TITLE

ADDRESS

UNION ELECTRIC COMPANY**ELECTRIC SERVICE**MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.5CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.5

APPLYING TO

MISSOURI SERVICE AREA**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS
WITH CAPACITY OF 100 kW OR LESS*****Union Electric d/b/a Ameren Missouri (Company) Address:**

One Ameren Plaza
1901 Chouteau Avenue
P.O. Box 66149, MC 921
St. Louis MO 63103
Att: General Executive, Renewables

***For Customers Applying for Interconnection:**

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

If you wish to apply for interconnection to Company'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 Company at the address above.

The Company will provide notice of approval or denial within thirty (30) days of receipt by Company for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by Company for Customer-Generators of greater than ten kilowatts (10 kW). 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 Company, it shall become a binding contract and shall govern your relationship with Company.

***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, complete sections E and F of this Application, and forward this Application to Company for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to Company's system, the Customer-Generator will furnish Company 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 Company prior to interconnection. If the application for interconnection is approved by 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.

*Indicates Change

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY**ELECTRIC SERVICE**MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 171.6CANCELLING MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 171.6APPLYING TO MISSOURI SERVICE AREA**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100
kW OR LESS (Cont'd.)*****For Customers Who Have Received Approval of
Customer-Generator System Plans and Specifications (Cont'd.):**

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

1. That the bidirectional meter has been set and parallel operation by Customer-Generator is permitted; or
2. That the Company's inspection identified no deficiencies and the bidirectional meter installation is pending; or
3. That the Company's inspection identified no deficiencies and the timeframe anticipated for Company to complete all required system or service upgrades and install the bidirectional meter; or
4. Of all deficiencies identified during the Company's 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 conditions(s) impacting the installation of the bidirectional meter or the parallel operation of the system.

***For Customers Who Are Installing Solar Systems:**

Ameren Missouri solar rebate funds are no longer available for new applicants. However, if you submitted an application in December 2013 you are in the rebate commitment queue. Please refer to Company's Rider SR - Solar Rebate for the applicable rebate rate and additional details and requirements. For those eligible, the rebate is limited to 25,000 watts (25 kW) and the rebate rate will be based on the following schedule:

- \$2.00 per watt for systems operational on or before June 30, 2014;
- \$1.50 per watt for systems operational between July 1, 2014 and June 30, 2015;
- \$1.00 per watt for systems operational between July 1, 2015 and June 30, 2016;
- \$0.50 per watt for systems operational between July 1, 2016 and June 30, 2019;
- \$0.25 per watt for systems operational between July 1, 2019 and June 30, 2020;
- \$0.00 per watt for systems operational after June 30, 2020.

*Indicates Change

DATE OF ISSUE	<u>March 13, 2017</u>	DATE EFFECTIVE	<u>April 12, 2017</u>
ISSUED BY	<u>Michael Moehn</u>	<u>President</u>	<u>St. Louis, Missouri</u>
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.7CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.7

APPLYING TO

MISSOURI SERVICE AREA

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)**

***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 Company at the address above. Company will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Company, 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.

*Indicates Reissue

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 171.8CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised

SHEET NO. 171.8APPLYING TO MISSOURI SERVICE AREA**A. Customer-Generator's Information**

Name on Company Electric Account: _____

Service/Street Address: _____

City: _____ State: _____ Zip Code: _____

Mailing Address (if different from above): _____

City: _____ State: _____ Zip Code: _____

Electric Account Holder Contact Person: _____

Electric Account Holder E-mail address (if available): _____

Daytime Phone: _____ Fax: _____

Emergency Contact Phone: _____

Company Account No. (from Utility Bill): _____

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

B. Customer-Generator's System Information

Manufacturer Name Plate: _____ Power Rating: _____ kW AC or DC (circle one)

Voltage: _____ Volts

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

Inverter/Interconnection Equipment Manufacturer: _____

Inverter/Interconnection Equipment Model No.: _____

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

Describe the location of the disconnect switch: _____

If disconnect switch is greater than 10 feet from electric service meter, describe why an alternate location 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

* Is there a battery backup? (Mark One): ☐ Yes ☐ No

* If Yes, Battery Manufacturer: _____ Battery Model: _____

* Additional Battery Information: _____

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

*Indicates Addition.

DATE OF ISSUE January 3, 2020DATE EFFECTIVE March 31, 2020ISSUED BY Marty J. Lyons
NAME OF OFFICERChairman & President
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 171.9CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised

SHEET NO. 171.9APPLYING TO MISSOURI SERVICE AREA

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)**

***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: _____ E-Mail: _____

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 Company. The proposed System has a lockable, visible AC disconnect device, accessible at all times to Company personnel and switch is located adjacent to the Customer-Generator's electric service meter (except in cases where Company has approved an alternate location). The System is only required to include one lockable, visible disconnect device, accessible to Company. 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 Company's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Company'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 Company's electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): _____ Date: _____

Name (Print): _____

*Indicates Change

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 62nd RevisedSHEET NO. 171.10CANCELLING MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.10APPLYING TO MISSOURI SERVICE AREA

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)**

D. Additional Terms and Conditions

In addition to abiding by 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 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 Company's electrical system, Company may immediately disconnect and lock-out the Customer-Generator's System from Company's electrical system. The Customer-Generator shall permit 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) or less. For Customer-Generators greater than ten kilowatts (10 kW), 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) 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 Company to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse 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 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.

*Indicates Reissue

**Indicates Change

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 62nd RevisedSHEET NO. 171.11CANCELLING MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.11APPLYING TO MISSOURI SERVICE AREA

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)**

D. Additional Terms and Conditions (Cont'd.)

***4. Ownership of Renewable Energy Credits or Renewable Energy Certificates (REC's)**

Renewable Energy Credits (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 Company all right, 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 Company confirms the solar electric system was installed and operational.

***5. Energy Pricing and Billing**

The net electric energy delivered to the Customer-Generator shall be billed in accordance with the Company's applicable Rate Schedule No. 6, Schedule of Rates for Electricity. The value of the net electric energy delivered by the Customer-Generator to Company shall be credited in accordance with the net metering rate contained in Company's Electric Power Purchases From Qualified Net Metering Units tariff. The Customer-Generator shall be responsible for all other bill components charged to similarly situated customers that are not Customer-Generators.

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 Company'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.

* Indicates Change

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 62nd RevisedSHEET NO. 171.12CANCELLING MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.12

APPLYING TO

MISSOURI SERVICE AREA

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)**

D. Additional Terms and Conditions (Cont'd.)

***6. Terms and Termination Rights**

This Agreement becomes effective when signed by both the Customer-Generator and Company, 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 Company 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 Company'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 Company. 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.

***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. Company 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 Company, before the existing Customer-Generator System can remain interconnected with Company'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 agrees 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, Company will assess no charges or fees for this transfer. Company 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. Company 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 Company'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 Company a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

*Indicates Reissue

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.13CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.13

APPLYING TO

MISSOURI SERVICE AREA

**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)**

D. Additional Terms and Conditions (Cont'd.)

***8. Dispute Resolution**

If any disagreements between the Customer-Generator and Company 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.

***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 Company's electrical system. Disconnecting the net metering unit from Company'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 Company, shall provide a copy of the test results to Company. If the Customer-Generator is unable to provide a copy of the test results upon request, Company 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 Company, 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 Company's system. If the Customer-Generator does not provide results of a test to Company within thirty (30) days of receiving a request from Company or the results of the test provided to Company show that the Customer-Generator's net metering unit is not functioning correctly, Company may immediately disconnect the Customer-Generator's System from Company's system. The Customer-Generator's System shall not be reconnected to Company's electrical system by the Customer-Generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

****10. Future Rates**

Customer electricity rates, charges and service fees determined by the Missouri Public Service Commission are subject to change. Future rate adjustments may positively or negatively impact financial savings projected from your generation investment. Ameren Missouri makes no guarantees regarding savings based on future electricity rate projections, including those formulated by third parties.

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

Signed (Customer-Generator): _____ Date: _____

*Indicates Reissue

**Indicates Addition

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 171.14CANCELLING MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 171.14APPLYING TO MISSOURI SERVICE AREA**INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH
CAPACITY OF 100 kW OR LESS – (Cont'd.)*****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 _____ or
Licensed Electrician in Missouri _____ License No. _____

Signed (Inspector): _____ Date: _____

***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 Company'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 the Company'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 Company's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Company's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Company 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 Company.

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

System Installation Date: _____

Printed Name (Customer-Generator): _____

Signed (Customer-Generator): _____ Date: _____

*Indicates Change

DATE OF ISSUE March 13, 2017 DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn President St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.15CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.15APPLYING TO MISSOURI SERVICE AREA****G. Application Approval (completed by Company)**

Company 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 Company on this _____ day of _____ (month), _____ (year).

Company Representative Name (print): _____

Signed Company Representative: _____

*Indicates Reissue

DATE OF ISSUE March 13, 2017DATE EFFECTIVE April 12, 2017ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY**ELECTRIC SERVICE**MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.16CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.16

APPLYING TO

MISSOURI SERVICE AREA

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*Indicates Change

DATE OF ISSUE July 27, 2018DATE EFFECTIVE August 28, 2018ISSUED BY Michael Moehn
NAME OF OFFICERPresident
TITLESt. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY**ELECTRIC SERVICE**MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 171.17CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 171.17

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NAME OF OFFICERPresident
TITLESt. Louis, Missouri
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