



# Summary of Comments on 20.065.pdf

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 Number: 1      Author: waylene.hiles      Subject: Received      Date: 5/29/2020 12:05:59 PM

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**WILLIAM P. KENNEY**  
Commissioner

**MAIDA J. COLEMAN**  
Commissioner

## ***Missouri Public Service Commission***

**RYAN A. SILVEY**  
Chairman

POST OFFICE BOX 360  
JEFFERSON CITY, MISSOURI 65102  
573-751-3234  
573-751-1847 (Fax Number)  
<http://psc.mo.gov>

**SCOTT T. RUPP**  
Commissioner

**JASON R. HOLSMAN**  
Commissioner

May 29, 2020

John Ashcroft  
Secretary of State  
Administrative Rules Division  
600 West Main Street  
Jefferson City, Missouri 65101

**Re: 20 CSR 4240-20.065 Net Metering**

Dear Secretary Ashcroft,

### **CERTIFICATION OF ADMINISTRATIVE RULE**

I do hereby certify that the attached is an accurate and complete copy of the proposed amendment lawfully submitted by the Missouri Public Service Commission.

The Public Service Commission further certifies it has conducted an analysis of whether or not there has been a taking of real property pursuant to section 536.017, RSMo, that the proposed amendment does not constitute a taking of real property under relevant state and federal law.

The Public Service Commission has determined and hereby also certifies that if the proposed amendment does affect small business pursuant to sections 536.300 to 536.310, RSMo, a small business impact statement has been filed as required by those sections. If no small business impact statement has been filed the proposed amendment either does not affect small business or the small business requirements do not apply pursuant to section 536.300.4, RSMo.

Statutory Authority: *sections 386.250 and 393.140, RSMo*

If there are any questions regarding the content of this proposed amendment, please contact:

Morris Woodruff, Chief Regulatory Law Judge  
Missouri Public Service Commission  
200 Madison Street  
P.O. Box 360  
Jefferson City, MO 65102  
(573) 751-2849  
Morris.Woodruff@psc.mo.gov



*Morris L. Woodruff*

Morris L. Woodruff  
Chief Regulatory Law Judge

Enclosures

STATE CAPITOL  
201 W. CAPITOL AVENUE, ROOM 216  
JEFFERSON CITY, MISSOURI 65101



(573) 751-3222  
WWW.GOVERNOR.MO.GOV

*Michael L. Parson*  
GOVERNOR  
STATE OF MISSOURI

April 14, 2020

Mr. Ryan Silvey  
Public Service Commission  
200 Madison Street  
PO Box 360  
Jefferson City, MO 65102

Dear Ryan:

This office has received your proposed rulemaking for the following regulations:

- 20 CSR 4240-3.155 Requirements for Electric Utility Cogeneration Tariff Filings
- 20 CSR 4240-20.060 Cogeneration and Small Power Production
- 20 CSR 4240-20.065 Net Meetings

Executive Order 17-03 requires this office's approval before state agencies release proposed regulations for notice and comment, amend existing regulations, rescind regulations, or adopt new regulations. After our review of these regulations, we approve the submission to the Joint Committee on Administrative Rules and the Secretary of State.

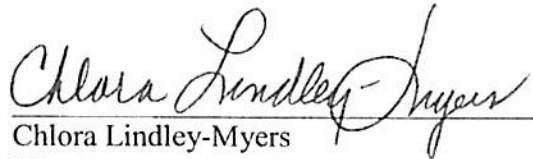
Sincerely,

  
Andrew T. Bailey  
Deputy General Counsel

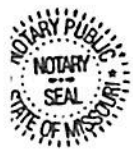
**AFFIDAVIT  
PUBLIC COST**

**STATE OF MISSOURI )  
 )  
COUNTY OF COLE )**

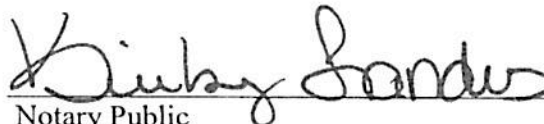
I, Chlora Lindley-Myers, Director of the Department of Commerce and Insurance, first being duly sworn, on my oath, state that it is my opinion that the cost of proposed amendment to rule, 20 CSR 4240-20.065, is less than five hundred dollars in the aggregate to this agency, any other agency of state government or any political subdivision thereof.

  
Chlora Lindley-Myers  
Director  
Department of Commerce and Insurance

Subscribed and sworn to before me this 18<sup>th</sup> day of May, 2020, I am commissioned as a notary public within the County of Cole, State of Missouri, and my commission expires on May 18, 2024



KIMBERLY LANDERS  
My Commission Expires  
May 18, 2024  
Callaway County  
Commission #12558402

  
Notary Public



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SECRETARY OF STATE  
ADMINISTRATIVE RULES

Title 20 – Department of Commerce and Insurance  
Division 4240 – Public Service Commission  
Chapter 20 – Electric Utilities

PROPOSED AMENDMENT

**20 CSR 4240-20.065 Net Metering.** The Secretary is amending section (1), section (4), section (5), section (8), section (9), and section (10); and removing section (3), section (7), and deleting the forms which follow the rule in the *Code of State Regulations*.

*PURPOSE: This amendment simplifies and improves rules by streamlining and eliminating duplicative requirements and provides clarity language.*

(1) Definitions.

(A) **Terms defined in 386.890 RSMo Supp. 2008 shall have the same meaning for purposes of this rule, unless further defined in this rule. Terms defined in 20 CSR 4240-20.100 shall have the same meaning for purposes of this rule.**

([A]B) **Avoided fuel cost shall have the same meaning as [means avoided costs described in] ([4]20) CSR (4)240-20.060 [used to calculate the electric utility'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 that meets all of the following criteria:*

- 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);*
- 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 an electric utility and has been approved for interconnection by said electric utility;*
- 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 electric utility's electrical lines whenever the flow of electricity to the customer-generator is interrupted.]*

*(D) Distribution system means facilities for the distribution of electric energy to the ultimate consumer thereof.*

*(E) Electric utility means every electrical corporation as defined in section 386.020(15), RSMo 2000, subject to commission regulation pursuant to Chapter 393, RSMo.*

*[(F) Net metering means using metering equipment sufficient to measure the difference between the electrical energy supplied to a customer-generator by an electric utility and the electrical energy supplied by the customer-generator to the electric utility 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 electric utility. If a customer has satisfied all of the System Completion Requirements by June 30 of indicated years, but the electric utility is not able to complete all of the*

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By Joint Committee on Administrative Rules at 12:06 pm, May 29, 2020





company's steps needed to establish an Operational Date on or before June 30, the rebate rate will be determined as though the Operational Date was June 30. If it is subsequently determined that the customer of the system did not satisfy all Completion Requirements required of the customer on or before June 30, the rebate rate will be determined based on the Operational Date.

*[(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.]*

*[(I) Renewable energy resources means, 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 the Missouri Department of Economic Development's Division of Energy.]*

*[(J) Staff means the staff of the Public Service Commission of the state of Missouri.]*

(2) Applicability. This rule applies to electric utilities and customer-generators.

*[(3) REC Ownership. RECs associated with customer-generated net-metered renewable energy resources shall be 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 utility 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 electric utility confirmed the solar electric system was installed and operational.]*

**[(4)](3) Electric Utility 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 electric utility'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, no electric utility shall be required to approve any application for interconnection if the total rated generating capacity of all applications for interconnection already approved to date by said electric utility in said calendar year equals or exceeds one percent (1%) of said electric utility'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.*

*[(C) The availability of the net metering program shall be disclosed annually to each of its customers with the method and manner of disclosure being at the discretion of the electric utility.*

*[(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 electric utility shall have no liability absent clear and convincing evidence of fault on the part of the supplier.*

*[(E) Any costs incurred under this rule by an electric utility not recovered directly from the customer-generator, as identified in (6)(F), shall be recoverable in that electric utility's rate structure.*

*[(F) No fee, charge, or other requirement not specifically identified in this rule shall be imposed unless the fee, charge, or other requirement would apply to similarly situated customers who are not customer-generators.]*

**(A) In addition to the Electric Utility Obligations set forth in section 386.890, RSMo Supp. 2008, the Electric Utility shall describe in its tariffs the calculation of net electrical energy measurement.**

(5) Customer-Generator Liability Insurance Obligation.

(A) Customer-generator systems greater than ten kilowatts (10 kW) shall carry no less than one hundred thousand dollars (\$100,000) of liability insurance, **unless for good cause shown**, 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) or less shall not be required to carry liability insurance.

(6) 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 1547a-2014, UL 1703-2002, and UL 1741-2010.

(B) The electric utility may require 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 an electric utility worker the ability to manually and instantly disconnect the unit from the electric utility's distribution system.

(C) No customer shall connect or operate an electric generation unit in parallel phase and synchronization with any electric utility without written approval by said electric utility that all of the requirements under subsection (9)(C) of this rule have been met. For a customer-generator who violates this provision, an electric utility 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 electric utility to install additional distribution equipment to accommodate the customer-generator's facility, the customer-generator shall reimburse the electric utility 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 electric utility, 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 electric utility's system. Disconnecting the net metering unit from the electric utility'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 electric utility.

1. If the customer-generator is unable to provide a copy of the test results upon request, the electric utility 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 electric utility.

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 electric utility within thirty (30) days of receiving a request from the electric utility or the results of the test provided to the electric utility show that the unit is not functioning correctly, the electric utility may immediately disconnect the net metering unit.

4. The net metering unit shall not be reconnected to the electric utility's electrical system by the customer-generator until the net metering unit is repaired and operating in a normal and safe manner.

*[(7) Determination of Net Electrical Energy. Net electrical energy measurement shall be calculated in the following manner:*

*(A) For a customer-generator, an electric utility 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 electric utility 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 electric utility during a billing period, the customer-generator shall be billed for the appropriate customer charges for that billing period in accordance with section (4) of this rule and shall be credited with the product of the excess kilowatt-hours generated during the billing period and the rate identified in the electric utility's net metering tariff sheet filed with the commission in the following billing period. This rate is calculated from the electric utility'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 electric utility.]*

(8) Net Metering Rates. Each electric utility shall file, **in accordance with 4 CSR-2.065 (4)**, on or before January 15 of each odd-numbered year *[for the commission's approval in the electric utility's tariff]*, a rate schedule with a net metering rate that is the same rate as the utility's cogeneration rate **for systems not more than one hundred (100) kilowatts as required in 20 CSR 4240-20.060(4)(A)1**. *[The electric utility's cogeneration rate is filed for the commission's approval in the electric utility's tariff on or before January 15 of every odd-numbered year as required in 4 CSR 240-3.155 Requirements for Electric Utility 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 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.]*

(9) Interconnection Application~~[/Agreement]~~.

(A) Each customer-generator and electric utility shall enter into ~~[the]~~ **an** interconnection agreement, **substantially the same as the interconnection application located on the commission's website and incorporated by reference [included herein]**.

**1. The interconnection application shall include a signature page for the customer and solar installer to indicate acknowledgement of the entire interconnection application.**

~~[I.]~~ **2.** If the electric utility so chooses, it may allow customers to apply electronically through the electric utility's website.

A. The interconnection application~~[/agreement]~~ on the electric utility's website shall substantially be the same as the interconnection application~~[/agreement]~~, **located on the commission's website and incorporated by reference [included herein]**.

~~[B.]~~ **A.** The electronic application~~[/agreement]~~ shall be submitted, **or made available in test mode**, to the manager of the Energy Unit of the staff for review by staff prior to being placed on the electric utility's website.

~~[C.]~~ **B.** The electric utility shall notify the manager of the Energy Unit of the staff of any revisions to the electronic application~~[/agreement]~~ on its website within ten (10) working days of when the electronic application~~[/agreement]~~ is revised.

~~[(B) References to a solar rebate in the interconnection application/agreement included herein are not required for electric utilities that are not required to offer solar rebates.]~~



*[(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 electric utility within thirty (30) days of receipt for systems ten kilowatts (10 kW) or less and within ninety (90) days of receipt for all other systems. Prior to the interconnection of the qualified generation unit to the electric utility's system, the customer-generator will furnish the electric utility a certification from a qualified professional electrician or engineer that the installation meets the requirements of subsections (6)(A) and (6)(B). If the application for interconnection is approved by the electric utility 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.]*

**(10) [Electric Utility Reporting Requirements.] Annual Net Metering Report**

Each year prior to April 15, every electric utility shall—

(A) Submit an annual net metering report to the commission [*and make said report available to a consumer of the electric utility upon request*], including the following information for the previous calendar year:

1. The total number of customer-generator facilities connected to its distribution system;
2. The total estimated generating capacity of customer-generators that are connected to its distribution system; and
3. The total estimated net kilowatt-hours received from customer-generators.[: *and*]

(B) Supply to the manager of the energy department of the commission a copy of the standard information regarding net metering and interconnection requirements provided to customers or posted on the electric utility's website.

**(C) Verify compliance with 10 CSR 4240-20.060(11)(C)1 for customer-generator systems.**

**(D) As soon as reasonably possible after the electric utility files its annual net metering report, the commission will place the electronic copies of each electric utility's annual net metering reports on the commission's website in order to facilitate public viewing, as appropriate.**

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

*[Utility Name and Mailing Address]*

***For Customers Applying for Interconnection:***

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

*If you wish to apply for interconnection to [Utility Name]'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 [Utility Name] at the address above. The company will provide notice of approval or denial within thirty (30) days of receipt by [Utility Name] for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by [Utility Name] 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 [Utility Name], it shall become a binding contract and shall govern your relationship with [Utility Name].*

***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 [Utility Name] for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to [Utility Name] system, the Customer-Generator will furnish [Utility Name] 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 the [Utility Name] prior to interconnection. If the application for interconnection is approved by [Utility Name] 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.*

*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 the electric utility, the electric utility will make any inspection of the customer-generators 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 Installing Solar Systems:***

*Customer-Generators who are Missouri electric utility retail account holders will receive a solar rebate, if available, based on the capacity stated in the application, or the installed capacity of the Customer-Generator System if it is lower, if the following requirements are met:*

- a. The [Utility Name] must have confirmed the Customer-Generator's System is operational; and
- b. Sections H and I of this Application must be completed.

*The amount of the rebate will be based on the system capacity measured in direct current. The rebate will be based on the schedule below up to a maximum of 25,000 watts (25kW).*

- \$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.*

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

**A. Customer-Generator's Information**

Name on [Utility Name] 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: \_\_\_\_\_

[Utility Name] Account No. (from Utility Bill): \_\_\_\_\_

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

[Utility Name] 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 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: \_\_\_\_\_

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 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

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

**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 [Utility Name]. The proposed system has a lockable, visible AC disconnect device, accessible at all times to [Utility Name] personnel and switch is located adjacent to the Customer-Generator's electric service meter (except in cases where the Company has approved an alternate location). The system is only required to include one lockable, visible disconnect device, accessible to [Utility Name].*

*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 [Utility Name]'s electrical system. The proposed system does have an anti-islanding function that prevents the generator from continuing to supply power when [Utility Name]'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 [Utility Name]'s electrical system when the electrical system is not energized or not operating normally.*

Signed (Installer): Printed Name \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

**D. Additional Terms and Conditions**

*In addition to abiding by [Utility Name]'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 [Utility Name], 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 [Utility Name]'s electrical system, [Utility Name] may immediately disconnect and lock-out the Customer-Generator's System from [Utility Name]'s electrical system. The Customer-Generator shall permit [Utility Name]'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 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 [Utility Name] to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse [Utility Name] 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 [Utility Name], 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 the [Utility Name] 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 the electric utility confirms the solar electric system is installed and operational.

#### **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 [Utility's Applicable Rate Schedules]. The value of the net electric energy delivered by the Customer-Generator to [Utility Name] shall be credited in accordance with the net metering rate schedule(s)

[Utility's Applicable Rate Schedules]. 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 [Utility Name]'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 [Utility Name], 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 [Utility Name] 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 [Utility Name]'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 [Utility Name]. 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. [Utility Name] 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 [Utility Name], before the existing Customer-Generator System can remain interconnected with [Utility Name]'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, [Utility Name] will assess no charges or fees for this transfer. [Utility Name] 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. [Utility Name] 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 [Utility Name]'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 [Utility Name] 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 [Utility Name] 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 [Utility Name]'s electrical system. Disconnecting the net metering unit from [Utility Name]'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 [Utility Name], shall provide a copy of the test results to [Utility Name]. If the Customer-Generator is unable to provide a copy of the test results upon request, [Utility Name] 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 [Utility Name], 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 [Utility Name]'s system. If the Customer-Generator does not provide results of a test to [Utility Name] within thirty (30) days of receiving a request from [Utility Name] or the results of the test provided to [Utility Name] show that the Customer-*

Generator's net metering unit is not functioning correctly, [Utility Name] may immediately disconnect the Customer-Generator's System from [Utility Name]'s system.  
The Customer-Generator's System shall not be reconnected to [Utility Name]'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.

Signed (Customer-Generator): Printed Name \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Must be signature of [Utility Name] 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: \_\_\_\_\_

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

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

System Installation Date: \_\_\_\_\_

Printed name (Customer-Generator): \_\_\_\_\_

Signed (Customer-Generator): \_\_\_\_\_



Date: \_\_\_\_\_

**G. Utility Application/Agreement Approval (completed by [Utility Name])**

[Utility Name] 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 [Utility Name] on this \_\_\_\_\_ day of

\_\_\_\_\_ (month),

\_\_\_\_\_ (year). [Utility

Name] Representative Name (print):

\_\_\_\_\_  
Signed [Utility Name] Representative:

**H. Solar Rebate (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

Solar system must be permanently installed on the applicant's premises for a valid application

**Required documents to receive solar rebate to be attached OR provided before**

**[Utility Name] authorizes the rebate payment:**

Copies of detail receipts/invoices with purchase date circled

Copies of detail spec sheets on each component

Copies of proof of warranty sheet (minimum of 10 year warranty)

Photo(s) of completed system

Completed Taxpayer Information Form

**I. Solar Rebate Declaration (For Solar Installations only)**

I understand that the complete terms and conditions of the solar rebate program are included in [Utility Name] [solar rebate tariff name].

I understand that this program has a limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified I have been placed on a waiting list for the next year's rebate program if funds run out for the current year. This program may be modified or discontinued at any time without notice from [Utility Name].

I understand that the solar system must be permanently installed and remain in place on premises for a minimum of 10 years and the system shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the solar system.

I understand the equipment must be new when installed, commercially available, and carry a minimum 10 year warranty.

I understand a rebate may be available from [Utility Name] in the amount of:

\$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.*

*I understand an electric utility may, through its tariff, require applications for solar rebates to be submitted up to one hundred eighty-two (182) days prior to the applicable June 30 operational date for the solar rebate.*

*I understand that a maximum of 25 kilowatts of new or expanded system capacity will be eligible for a rebate.*

*I understand the DC wattage rating provided by the original manufacturer and as noted in section H will be used to determine rebate amount.*

*I understand I may receive an IRS Form related to my rebate amount. (Please consult your tax advisor with any questions.)*

*I understand that as a condition of receiving a solar rebate, I am transferring to [Utility Name] all right, title, and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded system for a period of ten (10) years from the date [Utility Name] confirmed that the system was installed and operational, and during this period, I may not claim credit for the SRECs under any environmental program or transfer or sell the SRECs to any other party.*

*The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.*

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*Applicant's Signature    Installer's Signature*

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*Print Solar Rebate Applicant's Name    Print Installer's Name]*



# Year 1 Costs

Proposed Code Section	Description	Ameren's Est Costs	Staff's Est Ameren Costs	Staff's Est Empire Costs	Staff's Est KCPL/GMO Costs	Total Staff's Estimated Costs	Notes
20 CSR 240-20.060(4)(A)	Utilities develop standard rates	Less than \$1,000	\$0	\$650	\$0	\$650	Ameren & KCPL/GMO have existing standard rates for QF's with more than 100kW capacity. Staff estimates Empire's cost: 8 hrs Analyst @ \$50/hr and 2 hrs Atty @ \$125/hr. \$400 + \$250 = \$650. All utilities have existing standard rates for less than 100 kW (net metering).
20 CSR 240-20.060(4)(C)	Utilities adopt Commission-developed standard contract	\$5,000 - \$30,000	\$1,800	\$1,800	\$1,800	\$5,400	Utilities currently required to submit a standard contract pursuant to 4 CSR 240-3.155(2)(B). They will incur minimal costs adopting the Commission's. Staff estimates 16 hrs Analyst @ \$50/hr and 8 hrs Atty @ \$125/hr. \$800 + \$1,000 = \$1,800.
20 CSR 240-20.060(4)(D)	Utilities develop interconnection standards	\$5,000 - \$15,000	\$3,550	\$0	\$3,550	\$7,100	Empire has an interconnection standards document. Staff estimates costs to Ameren & KCPL/GMO to develop: 2 hrs Analyst @ \$50/hr, 40 hrs Engineer @ \$80/hr, and 2 hrs Atty @ \$125/hr. \$100 + \$3,200 + \$250 = \$3,550.
20 CSR 240-20.060(11)(A)	Utilities make biannual tariff filings with standard contracts & standard rates	\$3,000 - \$30,000	\$0	\$0	\$0	\$0	This is an existing requirement under current 4 CSR 240-3.155(3).
20 CSR 240-20.060(11)(B)	Utilities make avoided cost & capacity plans publicly available	\$1,000	\$0	\$0	\$0	\$0	This is an existing requirement under 18 C.F.R. 292.302(b) (PURPA implementing regulation) and 4 CSR 240-3.155(4).
20 CSR 240-20.060(11)(C)	Utilities maintain & aggregate circuit & feeder data	\$25,000 - \$50,000, plus \$50,000 - \$250,000 for tracking system	\$1,440	\$1,440	\$1,440	\$4,320	Rule does not require additional software purchases. Utility may chose a more robust solution for its own purposes. Staff's estimates initial costs for each utility: 16 hrs Analyst time @ \$50/hr and 8 hrs Engineer time @ \$80/hr. \$800 + \$640 = \$1,440.
<b>TOTAL</b>		<b>\$90,000 - \$375,000</b>	<b>\$6,790</b>	<b>\$3,890</b>	<b>\$6,790</b>	<b>\$17,470</b>	

# Recurring Costs

Proposed Code Section	Description	Ameren's Est Costs	Staff's Est Ameren Costs	Staff's Est Empire Costs	Staff's Est KCPL/GMO Costs	Total Staff's Estimated Costs	Notes
20 CSR 240-20.060(4)(A)	Utilities develop standard rates	\$0	\$0	\$0	\$0	\$0	This cost is not expected to recur.
20 CSR 240-20.060(4)(C)	Utilities adopt Commission-developed standard contract	\$5000 - \$30,000 biennially	\$700 biennially	\$700 biennially	\$875 biennially	<b>\$2275 biennially</b>	See Year 1 Costs for 20 CSR 240-20.060(4)(C), above. For recurring costs, Staff estimates Ameren & Empire: 4 hrs Analyst @ \$50/hr and 4 hrs Atty @ \$125/hr. \$200 + \$500 = \$700. KCPL/GMO: 5 hrs Analyst @ \$50/hr and 5 hrs Atty @ \$125/hr. \$250 + \$625 = \$875.
20 CSR 240-20.060(4)(D)	Utilities develop interconnection standards	unknown	\$990 annually	\$990 annually	\$990 annually	<b>\$2,970 annually</b>	Occasional updates may occur but not because of this rule. Staff's estimated costs for review for each utility: 2 hrs Analyst @ \$50/hr, 8 hrs Engineer @ \$80/hr, and 2 hrs Atty @ \$125/hr. \$100 + \$640 + \$250 = \$990.
20 CSR 240-20.060(11)(A)	Utilities make biannual tariff filings with standard contracts & standard rates	\$3000 - \$30,000 biennially	\$250 biennially	\$250 biennially	\$250 biennially	<b>\$750 biennially</b>	This is an existing requirement under current 4 CSR 240-3.155(3). Under the proposed rule, utilities will have to file as a case, compared to the current JE filing. Staff estimates costs for each utility: 2 hrs Atty @ \$125/hr. = \$250.
20 CSR 240-20.060(11)(B)	Utilities make avoided cost & capacity plans publicly available	\$500 annually	\$0	\$0	\$0	\$0	This is an existing requirement under 18 C.F.R. 292.302(b) (PURPA implementing regulation) and 4 CSR 240-3.155(4).
20 CSR 240-20.060(11)(C)	Utilities maintain & aggregate circuit & feeder data	\$5,000 - \$10,000 annually	\$770 annually	\$770 annually	\$900 annually	<b>\$2,440 annually</b>	Rule does not require additional software purchases. Staff's estimated recurring costs: 4 hrs Analyst @ \$50/hr and 4 hrs Engineer @ \$80/hr. \$320 + \$250 = \$770.
<b>TOTAL</b>	<b>Annually:</b> <b>Biennially:</b>	<b>\$5,500 - \$10,000</b> <b>\$8,000 - \$60,000</b>	<b>\$1,760</b> <b>\$950</b>	<b>\$1,760</b> <b>\$950</b>	<b>\$1,890</b> <b>\$1,125</b>	<b>\$5,410</b> <b>\$3,025</b>	
<b>ANNUALIZED</b>		<b>\$17,000 - \$70,500</b>				<b>\$7,000</b>	

Staff annualized by adding half of biennial costs to annual costs.

*AUTHORITY: sections 386.250 and 393.140, RSMo. \* Original rule filed Oct. 14, 1980, effective May 15, 1981. Amended: Filed Aug. 16, 2002, effective April 30, 2003.*

*\*Original authority: 386.250, RSMo 1939, amended 1963, 1967, 1977, 1980, 1987, 1988, 1991, 1993, 1995, 1996 and 393.140, RSMo 1939, amended 1949, 1967.*

**PUBLIC COST:** *This proposed rule will not cost state agencies or political subdivisions in excess of \$500.00 in total.*

**PRIVATE COST:** *This proposed rule will not cost private entities in excess of \$500.00 in total.*

**NOTICE OF PUBLIC HEARING AND NOTICE TO SUBMIT COMMENTS:** *Anyone may file a statement in support of or in opposition to the proposed amendment with the Missouri Public Service Commission, 200 Madison Street, PO Box 360, Jefferson City MO 65102-0360. To be considered, comments must be received no later than July 31, 2020, and should include a reference to Commission Case No. EX-2020-0006. Comments may also be submitted via a filing using the commission's electronic filing and information system at <http://www.psc.mo.gov/efis.asp>. A public hearing is scheduled for 10:00 a.m., August 11, 2020, in Room 310 of the Governor Office Building, 200 Madison St., Jefferson City, Missouri. Interested persons may appear at this hearing to submit additional comments and/or testimony in support of or in opposition to this proposed rule, and may be asked to respond to commission questions. Any persons with special needs as addressed by the Americans with Disabilities Act should contact the Missouri Public Service Commission at least ten (10) days prior to the hearing at one (1) of the following numbers: Consumer Services Hotline 1-800-392-4211 or TCO Hotline 1-800-829-7541.*

## **Small Business Regulator Fairness Board Small Business Impact Statement**

**Date:** May 7, 2020

**Rule Number:** 20 CSR 4240-20.065 Net Metering

**Name of Agency Preparing Statement:** Missouri Public Service Commission

**Name of Person Preparing Statement:** Karen Bretz and Claire Eubanks

**Phone Number:** (573) 751-5472      **Email:** [karen.bretz@psc.mo.gov](mailto:karen.bretz@psc.mo.gov)  
(573) 526-2953                      [Claire.Eubanks@psc.mo.gov](mailto:Claire.Eubanks@psc.mo.gov)

**Name of Person Approving Statement:** Kevin Thompson and Natelle Dietrich

**Please describe the methods your agency considered or used to reduce the impact on small businesses** *(examples: consolidation, simplification, differing compliance, differing reporting requirements, less stringent deadlines, performance rather than design standards, exemption, or any other mitigating technique).*

This proposed amendment streamlines, clarifies, and eliminates duplicative language.

**Please explain how your agency has involved small businesses in the development of the proposed rule.**

The Commission held a workshop and informal comment period.

**Please list the probable monetary costs and benefits to your agency and any other agencies affected. Please include the estimated total amount your agency expects to collect from additionally imposed fees and how the moneys will be used.**

It is anticipated the proposed amendment will not have any monetary costs or benefits. No fees are imposed or amended.

**Please describe small businesses that will be required to comply with the proposed rule and how they may be adversely affected.**

The proposed amendment does not adversely affect small businesses that may elect to participate in net metering.

**Please list direct and indirect costs (in dollars amounts) associated with compliance.**

None identified.

**Please list types of business that will be directly affected by, bear the cost of, or directly benefit from the proposed rule.**

Utilities regulated by the Commission, business owners that are ratepayers of those utilities.

**Does the proposed rule include provisions that are more stringent than those mandated by comparable or related federal, state, or county standards?**

Yes ☐ No ☒

**If yes, please explain the reason for imposing a more stringent standard.**

*For further guidance in the completion of this statement, please see §536.300, RSMo.*

**FISCAL NOTE  
PRIVATE COST**

- I. Department Title: Department of Commerce and Insurance  
Division Title: Public Service Commission  
Chapter Title: Electric Utilities**

<b>Rule Number and Title:</b>	20 CSR 4240-3.155 Requirements for Electric Utility Cogeneration Tariff Filings 20 CSR 4240-20.060 Cogeneration and Small Power Production 20 CSR 4240-20.065 Net Metering
<b>Type of Rulemaking:</b>	Rescissions/ Amendments

**II. SUMMARY OF FISCAL IMPACT**

Estimate of the number of entities by class which would likely be affected by the adoption of the rule:	Classification by types of the business entities which would likely be affected:	Estimate in the aggregate as to the cost of compliance with the rule by the affected entities:
4	<b>Investor-owned electric utilities</b>	One-time cost of \$17,500 Annual cost of \$7,000

**III. WORKSHEET**

One investor-owned electric utility (IOU) indicated the proposed amendments would cause the utility to incur significant expenses related to necessary technology upgrades and increased litigation expense. Additional information was requested from all electric IOUs.

Using additional information PSC Staff quantified what it expects is the aggregate cost of compliance with proposed amendments.

**IV. ASSUMPTIONS**

Only the amendment to 20 CSR 4240-20.060 is expected to incur the aggregate cost of a one-time cost of \$17,500 and an annual cost of \$7,000. No cost is anticipated for the amendments to 20 CSR 4240-20.065 or the rescission of 20 CSR 4240-3.155.

Year 1 Costs

Proposed Code Section	Description	Staff's Est Ameren Costs	Staff's Est Empire Costs	Ameren's Est Costs	Staff's Est KCPL/GMO Costs	Total Staff's Estimated Costs	Notes
\$650	Ameren & KCPL/GMO have existing standard rates for QF's with more than 100kW capacity. Staff estimates Empire's cost: 8 hrs Analyst @ \$50/hr and 2 hrs Atty @ \$125 hr. \$400 + \$250 = \$650. All utilities have existing standard rates for less than 100 kW (net metering).	20 CSR 240-20.060(4)(A)	Utilities develop standard rates	Less than \$1,000	\$0	\$650	\$0
20 CSR 240-20.060(4)(C)	Utilities adopt Commission-developed standard contract	\$5,000 - \$30,000	\$1,800	\$1,800	\$1,800	\$5,400	Utilities currently required to submit a standard contract pursuant to 4 CSR 240-3.155(2)(B). They will incur minimal costs adopting the Commission's. Staff estimates 16 hrs Analyst @ \$50/hr and 8 hrs Atty @ \$125/hr. \$800 + \$1,000 = \$1,800.
20 CSR 240-20.060(4)(D)	Utilities develop interconnection standards	\$5,000 - \$15,000	\$3,550	\$0	\$3,550	\$7,100	Empire has an interconnection standards document. Staff estimates costs to Ameren & KCPL/GMO to develop: 2 hrs Analyst @ \$50/hr, 40 hrs Engineer @ \$80/hr, and 2 hrs Atty @ \$125/hr. \$100 + \$3,200 + \$250 = \$3,550.
20 CSR 240-20.060(11)(A)	Utilities make biannual tariff filings with standard contracts & standard rates	\$3,000 - \$30,000	\$0	\$0	\$0	\$0	This is an existing requirement under current 4 CSR 240-3.155(3).
\$0	\$0	This is an existing requirement under 18 C.F.R. 292.302(b) (PURPA implementing regulation) and 4 CSR 240-3.155(4).	20 CSR 240-20.060(11)(B)	Utilities make avoided cost & capacity plans publicly available	\$1,000	\$0	\$0
20 CSR 240-20.060(11)(C)	Utilities maintain & aggregate circuit & feeder data	\$25,000 - \$50,000, plus \$50,000 - \$250,000 for tracking system	\$1,440	\$1,440	\$1,440	\$4,320	Rule does not require additional software purchases. Utility may chose a more robust solution for its own



purposes. Staff's estimates initial costs for each utility: 16 hrs Analyst time @ \$50/hr and 8 hrs Engineer time @ \$80/hr. \$800 + \$640 = \$1,440.

TOTAL	\$90,000 - \$375,000	\$6,790	\$3,890	\$6,790	\$17,470
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**Recurring Costs**

Total Staff's Estimated Costs	Notes	Proposed Code Section	Description	Ameren's Est Costs	Staff's Est Ameren Costs	Staff's Est Empire Costs	Staff's Est KCPL/GMO Costs
20 CSR 240-20.060(4)(A)	Utilities develop standard rates	\$0	\$0	\$0	\$0	\$0	This cost is not expected to recur.
20 CSR 240-20.060(4)(C)	Utilities adopt Commission-developed standard contract	\$5000 - \$30,000 biennially	\$700 biennially	\$700 biennially	\$875 biennially	\$2275 biennially	See Year 1 Costs for 20 CSR 240-20.060(4)(C), above. For recurring costs, Staff estimates Ameren & Empire: 4 hrs Analyst @ \$50/hr and 4 hrs Atty @ \$125/hr. \$200 + \$500 = \$700. KCPL/GMO: 5 hrs Analyst @ \$50/hr and 5 hrs Atty @ \$125/hr. \$250 + \$625 = \$875.
\$2,970 annually	Occasional updates may occur but not because of this rule. Staff's estimated costs for review for each utility: 2 hrs Analyst @ \$50/hr, 8 hrs Engineer @ \$80/hr, and 2 hrs Atty @ \$125/hr. \$100 + \$640 + \$250 = \$990.	20 CSR 240-20.060(4)(D)	Utilities develop interconnection standards	unknown	\$990 annually	\$990 annually	\$990 annually
\$250 biennially	\$750 biennially	This is an existing requirement under current 4 CSR 240-3.155(3). Under the proposed rule, utilities will have to file as a case, compared to the current JE filing. Staff estimates costs for each utility: 2 hrs Atty @ \$125/hr. = \$250.	20 CSR 240-20.060(11)(A )	Utilities make biannual tariff filings with standard contracts & standard rates	\$3000 - \$30,000 biennially	\$250 biennially	\$250 biennially
20 CSR 240-20.060(11)(B)	Utilities make avoided cost & capacity plans publicly available	\$500 annually	\$0	\$0	\$0	\$0	This is an existing requirement under 18 C.F.R. 292.302(b) (PURPA) implementing

[illegible]