P. S. C. MO., ILI	C. C., IA.	ST. C.	C. SCHED	OULE NO1		2nd Revis	ed	SHEET NO	
	CAN	ICELLIN	NG SCHED	OULE NO1		1st Revis	ed	SHEET NO.	
APPLYING TO				MISSOURI S	SERVICE ARE	EA			
*A.	ELECT	TRIC	POWER	PURCHASES FR	OM QUALIFY	ING FACIL	ITIES - (CONTINUED)	
III.	star purc	dard hase	l rates from	ether or not post, the Company Customer unt Contract for	y shall no il Company	t be requi	ired to m	ake any	
IV.	and the	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.							
V.			ne Tech s Syst	nnical Requir	ements for	Parallel	Operatio	n with the	
	1.	Int	roduct	ion					
		ope: with requents: is: requ	ration h the uireme ineeri recogn uireme	um technical of Customer-Company's sysnts will serving when plantized that each other than allation's un	owned electric are served as a guidance as a guidance as a guidance as a guidance as an those served an those served as a	ctrical ge et forth b ide for Co an install ation may et forth h	enerating pelow. The many and ation; he have spec	facilities nese d Customer owever, it cific	
	2.	Gen	eral T	echnical Requ	uirements				
		Α.	Prote	ection					
			(1)	Customer shoof detecting and the Comparate Cusystem either device such device must available fand operation compatible system.	g fault co pany's sys stomer's s er directl as a circ be capabl ault curre ng speed o	nditions of tem. These ystem from y or throw uit breaked e of interest. The of these definitions of these definitions of the the second temp.	on both he se device the Come the Come ugh an autilian The crupting detection with the contraction and the contraction the contraction and the contraction the contraction and the contraction are devices must be deviced to the contraction and the contraction are deviced to the contra	is system s will pany's xiliary separating the sensitivit st be	
			(2)	The Customes automatical Company's supply.	ly separat	e his syst	tem from	the	
			(3)	The Custome: Customer-own faults or of system or of to his equip	ned equipm ther distu n Customer	ent in suc rbances or	ch a mann n the Com	er that pany's	
* Indica	ates C			7, 2010				r 6, 2010	

	CANCELLII			-	
LYING TO _			MISSOURI SER	VICE AREA	
*A.	ELECTRIC	POWER	PURCHASES FROM	QUALIFYING FACILITI	ES - (CONTINUED)
		(4)	regarding his p protective devi Company will ch equipment and i devices on the approve as subm which will be r	furnish information or opposed generation of ces prior to paralled eck the adequacy of ts compatibility with Company's system and itted or specify addrequired in order to the Company's system	equipment and el operation. this proposed the protective will either ditional equipmen begin parallel
		(5)	Company system Company. These	relay settings that relay settings will relays will be init ssure proper operati	be specified by calibrated
		(6)	which is under of the Company	e disconnect switch the exclusive jurisd dispatcher. This ma lity to be locked ou zed switchman.	dictional control anual switch must
		(7)	protection requirements with parallel g	ements are the basic cirements that would deneration. Addition to would depend on aread connection.	be associated nal requirements
	В.	Oper	ation		
		(1)	one is required order for Compa	conditions the intertal) must be operated kany to operate the may may request this accessons:	by Customer in anual disconnect
			a. System eme	rgency.	
				of Customer's gener equipment reveals a	
				generating equipmen omers or with the op system.	
			d. An outage circuit or	is scheduled on the feeder.	Company's supply
* Indic	ates Chang	ge.			

ELECTRIC SERVICE

P. S. C. MO., ILI	L. C. C., IA. ST. C.	C. SCHE	DULE NO1	2nd	Revised	SHEET NO	6
	CANCELLIN	NG SCHE	DULE NO1	1st	Revised	SHEET NO	6
PPLYING TO			MISSOURI SER	VICE AREA			
*A.	ELECTRIC	POWER	PURCHASES FROM	QUALIFYING	FACILITIES -	(CONTINUED)	-
		(2)	Customer shall synchronizing h Company's frequ resynchronizing outages or dist	is generati ency and vo his genera	ng equipment ltage. This	with the includes	
	С.	Qual	ity of Service				
		(1)	The interconnect equipment with any reduction i provided to oth effect on any Cachieve this obspresently appli which are measu between the Comas follows:	the Company n the quali er customer ompany faci jective, wa cable to Cu red at the	's system shaty of services or cause and lities. In over form guidestomer's factorist for the store of interpolation interpolation of interpolation interpolation interpolation interpolation interpolation in the interpolat	all not cause being ny undesirable order to elines ility and erconnection	le
			a. The phase	unbalance mu	ıst be less t	han 1%,	
					harmonics in ss than 10%,		:
					the squares age must be		
			The above lists guidelines which by experience a electrical syst	h are subje s well as t	ct to change he unique nat	as dictated ture of the	
		(2)	The power factor generating equithan that speciapplicable cust	pment conne fied by ret	cted shall no ail tariff fo	ot be less	
	D.	Mete	ring				
		syst Flow Flow suff capa flow woul sign that	llel generating em are divided; ," and (2) "One- " would apply to iciently variable city so that exc into the Compand d apply to Custo ificantly large: no Customer-gen any's system exc	into two groway Power For Customer's le or smalle cess Customeny's system. The commer's facily than their cerated power states of the commer's power states of the commer's power states of the commer states of the commer states of the commer states of the commer states of the commercial power states of the com	oups: (1) "Two- Flow." "Two- s facilities er than its g er-generated "One-way P lities whose generating er would flow	ro-way Power way Power whose load i renerating power could rower Flow load is capacity so rinto the	.S
* Indic	ates Chang	ge.					
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ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS

YING TO_			MISSOURI SE	RVICE AREA	
*A.	ELECTRIC	POWER	PURCHASES FROM	QUALIFYING FACILITIES -	· (CONTINUED)
		(1)	Two-way Power	Flow	
				nstallation provides for energy in either direct ng mode.	
			installations watthour meters connected to me Company; the organizated energy	tering for Two-way Powershall include two series with detents. One mete easure energy supply to ther meter shall measure gy supplied to Company. to operation of either meter.	s connected er shall be Customer from e Customer- The meter
				ering may or may not be he terms of the contract stomer.	
		(2)	One-way Power	Flow	
				nstallation does not all energy from Customer to	
			equipment capal	ircuit breaker will be to ble of detecting the re- toward the Company's sy	verse power
			meter installa	allation requires a sing tion with detent to pre- n the reverse direction	vent operation
				ering may or may not be he terms of a contract l	
	Ε.	Othe	er Requirements		
		(1)	applicable re Safety Code, of Electrical Underwriters codes, applic	installations shall adhequirements of the National Electric Co. and Electronics Engine Laboratories (UL), local cable NEMA codes, OSHA, vice Rules as set forth	onal Electrica Hode, Institut Hers (IEEE), Ll electric and Company's
		(2)		bear all interconnecti ration over and above th load.	
: Indi	cates Char				

ELECTRIC SERVICE

P. S. C. MO., ILL. C. 0	C., IA. ST. C. C. SCHEDULE NO1_	_	2nd	Revised	SHEET NO	8
	CANCELLING SCHEDULE NO. 1		1st	Revised	SHEET NO.	8
APPLYING TO	MISSOU	RI SERVICE	AREA			

B. ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS

*I. Application. This tariff applies to Union Electric Company d/b/a Ameren Missouri (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 5 - 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 Natural Resources 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.

II.Billing.

- a) 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 Non-Time-Differentiated Energy Rates contained in Section A.II.1 herein.

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).

* Indicates Change.

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P. S. C. MO., IL	LL. C. C., IA. ST. C. C. SCHE	DULE NO. 1	1st Revised	SHEET NO9
	CANCELLING SCHE	DULE NO. 1	Original	SHEET NO. 9
APPLYING TO _		MISSOURI SERVI	CE AREA	
**B.	ELECTRIC POWER	R PURCHASES FROM Q	UALIFIED NET METERING	UNITS -
*	\$0.0143 per metering as applicable t	oided Fuel Cost a kWh. However, t the Commission ha	as defined in 4 CSR his rate is not appl as approved Company's lities (Section A.II.	icable to net use of rates
III.	standard rate from Customer	es, Company shall r -Generator until (nases are made by Companot be required to make Company and Customer-Gerfor such purchases.	e any purchase
IV.	and regulation the tariff ar	ns as may be revi	are subject to all Communication sed from time-to-time. the Commission's normal	All terms of
V.	Company's Sys 1. Introduc The minioperation faciliti These re Customer installa installa	tion mum technical requ n of Customer-Gene es with the Compan quirements will se -Generator engine tion; however, it	irements for safe pararator's electrical gen y's system are set for rve as a guide for Com ring when planning suc is recognized that each ific requirements othe lt of each installation	allel derating th below. depany and th an th
	2. <u>General</u>	Technical Requirem	<u>ents</u>	
	A. Prot (1)	capable of detections and the company's system auxiliary devices separating device the available fasensitivity and	ustomer-Generator's sysmether directly or the such as a circuit broke must be capable of ault current. The detection with protective devices	on both his se devices stem from the hrough an eaker. The interrupting ection ese devices
	(2)	designed to auto	nerator shall install e omatically separate his ystem upon loss of the	s system from
	(3)	protecting Customanner that fau: Company's system	nerator is responsible omer-Generator's equip lts or other disturband n or on Customer-Genera mage to his equipment.	ment in such a ces on the
*Indica	ates Addition.	**Indicates Chang	ge.	
DATE OF ISSUE	October	7, 2010	DATE EFFECTIVE <u>Novemb</u>	per 6, 2010

President & CEO St. Louis, Missouri ADDRESS ISSUED BY Warner L. Baxter NAME OF OFFICER

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	CANCELLI	NG SCHE	EDULE NO1	Original	SHEET NO1
PLYING TO			MISSOURI SE	RVICE AREA	
*B.	ELECTRIC PO		PURCHASES FROM Q	UALIFIED NET METERING (JNITS -
		_	Company regardi and protective Company will chequipment and indevices on the approve as submitted which will be in	ator shall furnish info ing his proposed general devices prior to paral neck the adequacy of the its compatibility with Company's system and wanted or specify addit required in order to be the Company's system.	tion equipment lel operation. is proposed protective ill either ional equipment
		(5)	Company system Company. These	relay settings that wo relay settings will be relays will be initia assure proper operation	specified by lly calibrated
		(6)	which is under of the Company must have the o	Le disconnect switch mu the exclusive jurisdic s dispatcher. This ma capability to be locked athorized switchman.	tional control nual switch
		(7)	protection requ with parallel of	ements are the basic midirements that would be generation. Additional at would depend on an ideal connection.	associated requirements
	В.	Oper	cation		
		(1)	one is required Generator in or disconnect swit	conditions the intertied of must be operated by order for Company to operate. Company may requestable following reasons:	Customer- rate the manual
			a. System eme	rgency.	
				of Customer-Generator or protective equipment dition.	
			interferes	enerator's generating e with other customers o of the Company's system	or with the
			d. An outage circuit or	is scheduled on the Cor feeder.	mpany's supply
* Indi	icates Chang	ge.			

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CAI	NCELLIN	G SCHED	ULE NO. 1		1st Revise	ed	SHEET NO11
PPLYING TO			MISSOURI S	SERVICE A	REA		
*B. ELECTRIC	POWE	R PUR	CHASES FROM Q				(CONTINUED)
		(2)	properly sy with the Co includes re system outa	nchronizi mpany's f synchroni	ng his gene requency an zing his ge	erating end voltage	equipment ge. This
	C.	Quali	ity of Servic	е			
		(1)	The interco generating shall not c service bei any undesir Such interc latest revi	equipment ause any ng provid able effe onnection	with the Creduction in ed to other ct on any Constant be p	company's n the questions custome for company foursuant	s system hality of hers or cause facilities. to the
		(2)	The power f his generat less than tapplicable	ing equip hat speci	ment connec fied by ret	ted shal	
	D.	Meter	ring and/or A	dditional	Distributi	on Equip	oment
		or co Gener required addit Custo shall	easure the ne onsumed by the rator's exist trements or it tional distributer-Generato	t amount e Custome ing meter f it is n bution eg r's facil he Compan	of electric r-Generator equipment ecessary fo uipment to ity, the Cu y for the c	al energe. If the does not compar accommodustomer-Costs to	ne Customer- t meet these ny to install date the
		be in the trecovup to occur	ne request of nitially paid total costs a vered from the twelve (12) a until the isticational distri	for by C nd a reas e Custome billing nstallati	ompany, and onable inte r-Generator periods. No on of such	erest characters over the meter (s)	ount up to arge may be ne course of ring cannot and/or
* Indicates (Chang	e.					
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ELECTRIC SERVICE

P. S. C. M	O., ILL. C. C., IA.	ST. C. C.	SCHEDUI	LE NO.	1	2r	nd Revised	SHEET NO	12
	CAN	CELLING	SCHEDUI	LE NO	1	1s	st Revised	SHEET NO	12
APPLYING	то			MISS	SOURI	SERVICE AREA			
*B.		POWER	R PURC	HASES Requi All C to an Elect Insti (IEEE elect Compa	FROM remen ustom y app rical tute), Un ric c ny's	QUALIFIED NET ts er-Generator licable requi Safety Code, of Electrical derwriters La odes, applica	installati rements of the Natio and Elect boratories ble NEMA o	UNITS-(CONTINU ons shall adher the National onal Electric Co cronics Engineer (UL), local codes, OSHA, and as set forth in	ede,
				<u> </u>	21124				
*Ind	licates Ch	ange.							

DATE OF ISSUE October 7, 2010 DATE EFFECTIVE November 6, 2010

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri ADDRESS

ELECTRIC SERVICE

APPLYING TO MTSSOTTE	CERVICE AREA		
CANCELLING SCHEDULE NO. 1	1st Revised	SHEET NO	13
P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO1	2nd Revised	SHEET NO	13

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS

**For Customers Applying for Interconnection:

If you are interested in applying for interconnection to the electrical system of Union Electric Company d/b/a Ameren Missouri (Company), 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 complete plans, specifications, schematics and wiring diagrams 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:

One Ameren Plaza
1901 Chouteau Avenue
* P.O. Box 66149, MC 611
St. Louis MO 63103
**Att: General Executive, Renewables

You will be provided with an approval or denial of this Application. Company will provide notice of approval or denial within thirty (30) days of receipt by Company for Customer-Generators of 10 kW or less and within ninety (90) days of receipt by Company for Customer-Generators greater than 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.

<u>For Customers Who Have Received Approval of</u> <u>Customer-Generator System Plans and Specifications:</u>

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:

One Ameren Plaza
1901 Chouteau Avenue
* P.O. Box 66149, MC 611
St. Louis MO 63103
**Att: General Executive, Renewables

Company will complete the utility portion of section G and, upon receipt of a completed Application/Agreement form and payment of any applicable fees, permit interconnection of the Customer-Generator System to Company's electrical system. Customer-Generator will have one (1) year from the time of Company's approval to complete the interconnection after which time, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.

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:

One Ameren Plaza
1901 Chouteau Avenue
* P.O. Box 66149, MC 611
St. Louis MO 63103
**Att: General Executive, Renewables

* Indicates Addition. ** Indicates Change.

DATE OF ISSUE	October 7,	2010 DATE EFFECTIVE	November 6, 2010
ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
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P. S. C. MO., ILL. C. C., IA. S	ST. C. C. SCHEDULE NO. 1	2nd R	Revised	SHEET NO	14
CANC	CELLING SCHEDULE NO. 1	1st R	Revised	SHEET NO	14
PLYING TO	MISSOURI SI	ERVICE AREA			
INTERCONNEC	CTION APPLICATION/AGRE	EMENT FOR NET	METERING S	YSTEMS WIT	H
	CAPACITY OF 100 kW	OR LESS – (CON	ΓINUED)		
Company will revie	w the new Application/Agreemen	nt and shall approve	such if the new	Customer-Gener	rator
has satisfactorily co	ompleted Application/Agreemen	t, and no changes	are being propo	sed to the exis	sting
	System. There are no fees of tional control of an existing Cu				
proposed to that Syst	2	istomer-Generator Sy	ystem ii no mod	incations are o	emg
A. Customer-G	Senerator's Information				
Name:					
Mailing				Add	ress:
			Zip Code	 :	
	ess (if different from above):				
City:		State:	Zip Code	·	
Daytime Phone:	Fax:	E-Mai	1:		
Emergency Contact	Phone:				
Company Account N	No. (from Utility Bill):				
I. J	, , , , , , , , , , , , , , , , , , ,				
B. Customer-G	Senerator's System Info	rmation			
*Manufacturer Name	Plate (if applicable) DC Power R	Rating:	_kW Voltage:	V	olts
*System Type: Photo	voltaic Wind Solar/Th	nermal Thermal	Fuel Cell _		
Hydro	pelectric Other (describe) _				
_	ess:				
	etion Equipment Manufacturer:				
	etion Equipment Model No.:				
	m Plans & Specifications Attached				
•	etion Equipment Location (describ				
111 V 01001/ 11101 0 0 11100	uon zquipinone zovunon (uosuno				
Outdoor Manual/Uti	ility Accessible & Lockable Disco	onnect Switch Location	on (describe):		
Existing Electrical S	Service Capacity: Amp	peres Voltage:	Volts		
	Single Phase Three Phase _				
	6 · · · · · · · · · ·				

DATE OF ISSUE October 7, 2010 DATE EFFECTIVE November 6, 2010 ISSUED BY Warner L. Baxter President & CEO
NAME OF OFFICER TITLE St. Louis, Missouri ADDRESS

NTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED) C. Installation Information/Hardware and Installation Compliance Person or Company Installing:		IA. ST. C. C. SCHEDULE 1				
C. Installation Information/Hardware and Installation Compliance Person or Company Installing: Contractor's License No. (if applicable): Approximate Installation Date: Mailing Address: City: State: Zip Code: Daytime Phone: Fax: F-Mail: Person or Agency Who Will Inspect/Certify Installation: The Customer-Generator's proposed System hardware complies with all applicable National Electrical Saf Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) of Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable, visible disconnect device, accessible at all times to Company personnel located within the vicinity the Customer-Generator's meter. The System is only required to include one lockable, visible, lockable, visible 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 Syst synchronization to Company's electrical system. The proposed System does have an anti-slanding function of the proposed System gover when Company's electrical system in the prevents the generator from continuing to supply power when Company's electrical system in energy storage or back-up generation, the proposed System includes a parallel blocking sche for this backup source that prevents any backflow of power to Company's electrical system when the electric system is not energized or not operating normally. Signed (Installer): Date: Date: Date: Date: Name (Print): Die: Date: Date: Date: Date: Name (Print): Date: Date: Name (Print): Date: Date: Date: Date: Date: And official system is adversely affecting safety, power quality or reliability of Company's selectrical system. The Customer-Generator's System is and versely affecting safety, power quality or reliability of Company's selectrical system. The	С	ANCELLING SCHEDULE I	NO. <u>1</u>	2nd Rev	rised	SHEET NO
CAPACITY OF 100 kW OR LESS - (CONTINUED) **C. Installation Information/Hardware and Installation Compliance Person or Company Installing: Contractor's License No. (if applicable): Approximate Installation Date: Mailing Address: City: State: Person or Agency Who Will Inspect/Certify Installation: The Customer-Generator's proposed System hardware complies with all applicable National Electrical Saf Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable System type, these requirements include, but are not limited to, UL 1741, IEEE 929-2000 or IEEE 1547. The proposed installation also complies with all applicable local electrical codes. The proposed System ha lockable, visible disconnect device, accessible at all times to Company personnel located within the vicinity the Customer-Generator's meter. The System is only required to include one lockable, visible disconnect, in 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 Syst synchronization to Company's electrical system. The proposed System does have an anti-slanding funct that prevents the generator from continuing to supply power when Company's electric system is not energic or operating normally. If the proposed System includes a parallel blocking sche for this backup source that prevents any backflow of power to Company's electrical system when the electric system is not energic or operating normally. Date: Date	PLYING TO		MISSOURI SEF	RVICE AREA		
CAPACITY OF 100 kW OR LESS - (CONTINUED) **C. Installation Information/Hardware and Installation Compliance Person or Company Installing: Contractor's License No. (if applicable): Approximate Installation Date: Mailing Address: City: State: Person or Agency Who Will Inspect/Certify Installation: The Customer-Generator's proposed System hardware complies with all applicable National Electrical Saf Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable System type, these requirements include, but are not limited to, UL 1741, IEEE 929-2000 or IEEE 1547. The proposed installation also complies with all applicable local electrical codes. The proposed System ha lockable, visible disconnect device, accessible at all times to Company personnel located within the vicinity the Customer-Generator's meter. The System is only required to include one lockable, visible disconnect, in 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 Syst synchronization to Company's electrical system. The proposed System does have an anti-slanding funct that prevents the generator from continuing to supply power when Company's electric system is not energic or operating normally. If the proposed System includes a parallel blocking sche for this backup source that prevents any backflow of power to Company's electrical system when the electric system is not energic or operating normally. Date: Date						
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D. Additional Terms and Conditions In addition to abiding by Company's other applicable rules and regulations, the Customer-General 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 Customer-Generator's System is adversely affecting safety, power quality or reliability of Company's electric 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 inspect reasonable access to inspect, test, and examine the Customer-Generator's System.	overvoltage, und synchronization that prevents the or operating nor either through er for this backup s	dervoltage, overfreque to Company's electric generator from continually. If the proposed to the group storage or back-ource that prevents are	uency, underfreq cal system. The inuing to supply ped System is des: -up generation, the ny backflow of persons.	quency, and overcuse proposed System of power when Comparigned to provide united proposed System	rrent, and to proper to the property of the pr	rovide for Sy i-islanding fund em is not energe er to critical lo el blocking sch
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ELECTRIC SERVICE

P. S. C. MO., ILL. C.	C., IA. ST. C. C. SCHEDULE NO. 1		2nd	Revised	SHEET NO.	16	
	CANCELLING SCHEDULE NO. 1		1st	Revised	SHEET NO	16	
APPLYING TO	MISSOUR	I SERVICE	AREA				

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (CONTINUED)

2) Liability

Liability insurance is not required for Customer-Generators when the generator is 10 kW or less. For generators greater than 10 kW, the Customer-Generator agrees to carry no less than \$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.

* Absent clear and convincing evidence of fault on the part of Company, Company cannot be held liable for any action or cause of action relating to any damages to property or person caused by the generation unit of a Customer-Generator or the interconnection thereof pursuant to section 386.890.11, RSMo Supp. 2008. A Customer-Generator 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) Interconnection Costs

The Customer-Generator shall, at the Customer-Generator's cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for the Customer-Generator's System. The Customer-Generator further agrees to pay or reimburse to Company all of Company's Interconnection Costs. Interconnection Costs are the reasonable costs incurred by Company for: (1) additional tests or analyses of the effects of the operation of the Customer-Generator's System on Company's local distribution system, (2) additional metering, and (3) any necessary controls. These Interconnection Costs must be related to the installation of the physical facilities necessary to permit interconnected operation of the Customer-Generator's System with Company's system and shall only include those costs, or corresponding costs, which would not have been incurred by Company in providing service to the Customer-Generator solely as a consumer of electric energy from Company pursuant to Company's standard cost of service policies in effect at the time the Customer-Generator's System is first interconnected with Company's system. Upon request, Company shall provide the Customer-Generator with a not-to-exceed costs statement for interconnection with Company based upon the plans and specifications provided by the Customer-Generator to Company.

4) Energy Pricing and Billing

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

- a) 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.
- b) 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 Non-Time-Differentiated Energy Rates contained in Company's Schedule 1 Electric Power Purchases, Section A.II.1.

*	Indicates	Addition.
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DATE OF ISSUE	October 7, 2010	DATE EFFECTIVE	November 6, 2010
SSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

ELECTRIC SERVICE

PPLYING TO MTS	SOURT	SERVICE	ΔΡΕΔ			
CANCELLING SCHEDULE NO	1		1st	Revised	SHEET NO.	17
P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO	_1		2nd	Revised	SHEET NO	17

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

*5) 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.

*6) 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. 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 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 Application/Agreement must be completed.

7) 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.

*Indicates Reissue				
ATE OF ISSUE	October 7, 2010	DATE EFFECTIVE	November 6. 2010	

ISSUED BY_ Missouri Warner L. President St. Louis, Baxter TITI F **ADDRESS**

P. S. C. MO., ILL. C. C., IA. ST.	C. C. SCHEDULE NO1	2nd Revised	SHEET NO18
CANCELI	LING SCHEDULE NO. 1	lst Revised	SHEET NO18
PPLYING TO	MISSOURI SER	VICE AREA	
INTERCONNECT		MENT FOR NET METERING S OR LESS – (CONTINUED)	SYSTEMS WITH
**8) Testing Re	equirement		
Generator must, at leas unit automatically ceas two (2) seconds of beir from Company's electr to cease to energize th results of these tests an Customer-Generator is Customer-Generator b Generator receives the equipment ever fails th System from Company within thirty (30) days show that the Custome disconnect the Custom shall not be reconnect	at once every year, conduct a test es to energize the output (intercong disconnected from Company' rical system at the visible disconne output shall satisfy this test. d, upon request by Company, shounable to provide a copy of the year mail that Customer-Generator are request to provide to Company is test, the Customer-Generator are receiving a request from Corr-Generator's net metering unit inter-Generator's System from Corr-Generator's System fr	nection related protective function to confirm that the Customer-Genomection equipment output voltages electrical system. Disconnecting nect switch and measuring the time. The Customer-Generator shall manuall provide a copy of the test result the test results upon request, Comport has thirty (30) days from the manual immediately disconnect the Customer does not provide results of the test pairs not functioning correctly, Comporting of the Customer System by the Customer-Generator all and safe manner.	nerator's net metering e goes to zero) within the net metering unit e required for the unit intain a record of the ts to Company. If the pany shall notify the date the Customer- Customer-Generator's Customer-Generator's of a test to Company provided to Company any may immediately r-Generator's System
*9) Ownershir	of Renewable Energy Credits	(REC's)	
All REC's created thro This contract does not	ough the operation of Customer- grant any control or title over	Generator's system are owned by REC's to Company. Company i rate and mutually agreed upon cont	s not precluded from
	and, and accept the provision	ns of Section D, subsections 1	
Signed (Custon	ner-Generator):	Da	te:
E. Electrical Inspe			
		fies all requirements noted in Secti	
	I am a Licensed Engineer in	Missouri or	
inspector certification.		n Missouri License No	
Signed (Inspector):		Date:	
*Indicates Addit. **Indicates Reiss			

DATE OF ISSUE October 7, 2010 DATE EFFECTIVE November 6, 2010 ISSUED BY Warner L. Baxter President & CEO

NAME OF OFFICER TITLE St. Louis, Missouri ADDRESS

P. S. C. MO., ILL. C. C., IA. S	ST. C. C. SCHEDULE NO. 1	Orig	<u>inal</u>	SHEET NO1
CANC	ELLING SCHEDULE NO.			SHEET NO.
PLYING TO	MISSOURI SE	RVICE AREA		
INTERCONNEC	CTION APPLICATION/AGREE	MENT FOR NET MI	ETERING S	YSTEMS WITH
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	enerator Acknowledgement			
	Customer-Generator System insta an operational manual for that			
	generation tariff or rate schedule			
	eration of the Customer-Generator			1
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	he Company's interconnection sta			
the Customer-Gener	ator System is operating in an u	nusual manner that ma	ay result in	any disturbances o
	al system, I shall disconnect the			
	al system until the Customer-Ge			
	, I agree to notify Company no n of the Customer-Generator Syste			
	racteristics. I acknowledge that a			
Application/Agreem	ent to Company.			
Lagree not to operate	e the Customer-Generator System i	n parallel with Compar	v's electrical	system until this
	ent has been approved by Compan		., 5 0100111011	
g: 1/g			ъ.	
Signed (Customer-G	enerator):		Date:	
*G. Application A	Approval (completed by Con	<u>npany)</u>		
	by approval of this Application			
	or physical injury to persons due to	malfunction of the Cu	stomer-Gener	rator's System or th
Customer-Generator	's negligence.			
This Application is a	approved by Company on this	day of(mo	onth),	_(year).
Company Represent	ative Name (print):			
Signed Company Re	presentative:			
*Indicates Reissue.				
muicaus Reissue.				
		DATE EFFECTIVE		per 6, 2010

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS