

**AUTOMATIC PROTECTIVE LIGHTING SERVICE**

Effective In: All territory served by the Company.

Availability: Available to all classes of customers for area lighting service.

Rate:

<u>Type:</u>	<u>Wattage</u>	<u>Lumens</u>	<u>Monthly Rate per Unit</u>	
<u>Mercury Vapor</u>				
	(closed) 175 Watt	8,600 Lumens	\$ 10.75	R
	(closed) 250 Watt	12,100 Lumens	14.20	R
	(closed) 400 Watt	22,500 Lumens	18.75	R
<u>Sodium Vapor</u>				
	(closed) 70 Watt	5,800 Lumens	\$ 7.10	
	(closed) 100 Watt	9,500 Lumens	8.65	
	(closed) 150 Watt	16,000 Lumens	10.40	
	250 Watt	27,500 Lumens	14.10	
	400 Watt	50,000 Lumens	20.10	
<u>LED</u>				
	(100 HSPV Equiv.) 48 Watt	4,800 Lumens	\$ 6.60	
	(150 HSPV Equiv.) 60 Watt	6,900 Lumens	7.60	

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1 Sheet No. E 63.

Service Included in Rate: Company will install, own, operate and provide routine maintenance to the lighting unit including the fixture, lamp, ballast, photo-electric control, mounting brackets and all necessary wiring. Company shall furnish all electric energy required for operation of the unit.

Special Terms and Conditions:

1. Above rate contemplates installation of the lighting unit on an existing wood pole upon which Company's secondary voltage lines are attached, including the customer's yard pole. If necessary, Company will extend its secondary voltage lines on existing Company poles for not to exceed two spans provided customer pays the entire cost thereof. Lighting units are available only where compatible voltage levels presently exist. No additional transformer capacity will be provided hereunder.
2. The lamps shall be lighted and extinguished by a photo-electric control furnished by the Company. The hours of burning shall be from approximately one-half hour after sunset until one-half hour before sunrise, every night.

(continued)

## AUTOMATIC PROTECTIVE LIGHTING SERVICE (contd)

### Special Terms and Conditions (continued)

3. If illumination of a lamp is interrupted and said illumination is not resumed within three business days from the time Company received notice thereof from customer, 1/30th of the monthly compensation for such unit shall be deducted for each night of non-illumination after such notice is received.

4. Company shall have the right to refuse or discontinue service on this schedule, or to install shading devices on lamps if, in the opinion of Company, location of such service does or would pose a safety hazard or source of annoyance. This stipulation shall not be construed to impose any liability upon Company to customer or any other person by reason thereof, and Company shall not be liable or responsible for any loss, injury or damage which may result from the location of the service provided.

Term of Agreement Agreement shall be for a term of three years and, if not then terminated by at least 30 days' prior written notice by either party, shall continue until so terminated.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

### Rate Code:

B30 Automatic Protective Lighting Service

B44 Automatic Protective Lighting Service (LED)

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## STREET LIGHTING SYSTEM SERVICE

Availability Available for year-round illumination of public streets, parkways, alleys, and highways by High Pressure Sodium or Metal Halide electric lamps in luminaires supported on poles, where the facilities for this service are furnished by Company. Mercury vapor fixtures are no longer installed; replacements are restricted to other available lamp types. Underground Service under this schedule is limited to areas having a Company owned underground electric distribution system.

Rate

<u>Designation of Lamp Type</u>	<u>Monthly Rate Per Luminaire</u>				R
	<u>Overhead</u> (closed)	<u>Underground</u> (closed)	<u>Decorative</u> <u>Underground</u>	<u>Maintenance</u> <u>Option</u>	
175W Mercury Vapor	\$14.50	\$19.20			R
250W Mercury Vapor	\$16.45	\$21.00			R
400W Mercury Vapor	\$20.25				R
70W High Pressure Sodium	\$11.50	\$15.40			
100W High Pressure Sodium	\$12.55	\$16.40	\$31.20	\$ 9.75	
150W High Pressure Sodium	\$13.95	\$17.45	\$32.60	\$11.70	
250W High Pressure Sodium	\$17.35	\$20.70	\$35.40	\$15.45	
400W High Pressure Sodium	\$22.55	\$27.80	\$39.50	\$21.00	

Maintenance Option Surcharge A monthly surcharge per luminaire of 0.2% applies to the amount the average purchase price per luminaire exceeds \$1,500.

Energy Cost Adjustment Bills subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

Overhead, Underground, Decorative Underground

Service Included in Rate Company shall own, operate, and maintain the overhead and underground street lighting systems using Company's standard street lighting equipment.

Term of Agreement The term of agreement shall be one year and shall continue in force thereafter for periods of one year unless terminated by written notice of cancellation given by either party to the other not less than 30 days prior to the expiration of any of said one-year periods.

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ISSUED: December 26, 2017.

EFFECTIVE: For service rendered on and after January 1, 2018.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-123 dated December 21, 2017.

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**STREET LIGHTING SYSTEM SERVICE (cont'd)**

Maintenance Option

Provisions Customer shall make payment to Company for the price of the ornamental street lighting system installation, including underground cables, posts, lamps, ballasts, starters, photocells, and glassware. The street lighting system shall be Company approved and include a lamp type and wattage combination that corresponds to an existing Maintenance Option service.

System Price Company shall provide customer with the price for the ornamental street lighting system prior to construction. Customer shall provide Company with total payment of the price of the ornamental street lighting system at the time of installation.

Service Included Company shall furnish all electric energy necessary to operate the street lighting system, shall make all lamp and glassware renewals, clean the glassware, light and extinguish all lamps, make all ballast and starter renewals, and furnish all the materials and labor necessary for these services. Company shall also repair all damaged equipment for 25 years from the installation date. After 25 years, Company will repair damaged equipment when the damage is not associated with the age of the street lighting system.

System Replacement or Renovation If in the Company's opinion, the condition of the street lighting system is such that replacement or significant renovation of the system is necessary, the customer shall have three options: (1) the customer may transfer to the appropriate lighting service, or (2) the customer may make payment to Company of the price of installing a replacement system, or (3) the customer may make payment to Company of the price of a Company approved renovation of the existing system.

Daily Operating Schedule The daily operating schedule of the above lamps shall be from approximately one-half hour after sunset until one-half hour before sunrise.

Outages If illumination from any lamp is interrupted and said illumination is not resumed within three business days from the time Company receives notice thereof from customer, 1/30th of the monthly rate for such lamp shall be deducted for each night of non-illumination after such notice is received.

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Other Terms and Conditions Other terms and conditions applicable hereto are contained in Schedules Ms-5 and 5.1.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code:

B31 Street Lighting System Service

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ISSUED: December 23, 2011

EFFECTIVE: For service rendered on and after January 1, 2012

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-117 dated December 22, 2011

## COMPANY OWNED LED STREET LIGHTING SERVICE

Availability: Available for year-round illumination of public streets, parkways, alleys, and highways by Light Emitting Diode (LED) fixtures supported on poles, where the facilities for this service are furnished by Company. Underground Service under this schedule is limited to areas having a Company owned underground electric distribution system.

Rate:

Monthly Charge per Lighting Unit

<u>Unit Wattage</u>	<u>Overhead Units</u>	<u>Underground Units</u>	
39 Watts	\$ 11.30	\$ 15.15	R
65 Watts	\$ 12.25	\$ 15.75	R
155 Watts	\$ 15.20	\$ 18.60	R
246 Watts	\$ 20.05	\$ 25.30	R

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

Service Included in Rate: Company shall own, operate, and maintain the overhead and underground street lighting systems using Company's standard street lighting equipment.

Daily Operating Schedule: The daily operating schedule of the above fixtures shall be from approximately one-half hour after sunset until one-half hour before sunrise for approximately 4,160 hours per year.

Outages: If illumination from any fixture is interrupted and said illumination is not resumed within five (5) business days from the time Company receives notice thereof from customer, 1/30<sup>th</sup> of the monthly rate for such fixture shall be deducted for each night of non-illumination after such notice is received.

Term of Agreement: The term of agreement shall be one year and shall continue in force thereafter for periods of one year unless terminated by written notice of cancellation given by either party to the other not less than 30 days prior to the expiration of any of said one-year periods.

Other Terms and Conditions: Other terms and conditions applicable hereto are contained in Schedules Ms-5 and 5.1.

Late Payment Charge: A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code:

B39	Company Owned LED Street Lighting Service – Overhead
B40	Company Owned LED Street Lighting Service – Underground

ISSUED: December 16, 2016

EFFECTIVE: For service rendered on and after January 1, 2017.

PSCW AUTHORIZATION: Letter in Docket No. 4220-UR-122 dated December 1, 2016.

## CUSTOMER OWNED LED STREET LIGHTING SERVICE

Availability: Available for year-round illumination of public streets, parkways, and highways by electric lamps mounted on standards where the customer owns and maintains a Light Emitting Diode (LED) Street Lighting system complete with standards, LED fixtures and other appurtenances, together with all necessary cables extending between standards and to points of connection to Company's facilities as designated by Company.

Rate:

Monthly Charge per Unit \$ 0.65

Energy Charge per Unit per 10 Watts \$ 0.35

For Example:

<u>Unit Wattage</u>	<u>Billing Wattage</u>	<u>Monthly Charge per Unit</u>
39 Watts	40 Watts	\$ 2.05
44 Watts	40 Watts	\$ 2.05
64 Watts	60 Watts	\$ 2.75
65 Watts	70 Watts	\$ 3.10
154 Watts	150 Watts	\$ 5.90
155 Watts	160 Watts	\$ 6.25
246 Watts	250 Watts	\$ 9.40

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

Unit Billing Wattage: For purposes of this billing according to this rate schedule, the manufacturer's wattage rating shall be rounded to the nearest 10. Wattages between 0 and 4 shall be rounded up to 10.

Service Included in Rate: Company furnishes energy only at central distribution points designated by Company. Customer owns and maintains entire LED Street Lighting system including cables, posts and fixtures. Customer maintains the lighting units and is responsible for replacement of inoperative fixtures. No credit is allowed for periods during in which units are out of service.

Customer to Company Notification: If the Customer either adds or removes any Customer-owned LED lighting facilities under this service, Customer shall notify Company in writing within three (3) working days of the action.

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ISSUED: April 22, 2015

EFFECTIVE: For service rendered on and after June 1, 2015.

PSCW AUTHORIZATION: Letter in Docket No. 4220-TE-101 dated April 15, 2015

**CUSTOMER OWNED LED STREET LIGHTING SERVICE (cont'd)**

Dusk to Dawn Daily Operating Schedule: The dusk to dawn daily operating schedule of the above LED fixtures shall be from approximately one-half hour after sunset until one-half hour before sunrise for approximately 4,160 hours per year. Customer shall provide suitable lighting control devices for dusk to dawn service.

Term of Agreement: The term of agreement shall be one year and shall continue in force thereafter for periods of one year unless terminated by written notice of cancellation given by either party to the other not less than 30 days prior to the expiration of any of said one-year periods.

Other Terms and Conditions: Other terms and conditions applicable hereto are contained in Schedules Ms-5 and 5.1.

Later Payment Charge: A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code: B41 Customer owned LED Street Lighting Service

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ISSUED: April 22, 2015

EFFECTIVE: For service rendered on and after June 1, 2015.

PSCW AUTHORIZATION: Letter in Docket No. 4220-TE-101 dated April 15, 2015

## CUSTOMER OWNED STREET LIGHTING SERVICE

Availability: Available for year-round illumination of public streets, parkways, and highways by electric lamps mounted on standards where the customer owns and maintains an Ornamental Street Lighting system complete with standards, luminaires with refractors, lamps and other appurtenances, together with all necessary cables extending between standards and to points of connection to Company's facilities as designated by Company. Mercury Vapor street lighting service under this schedule is limited to the luminaires being served as of December 31, 1987.

### Group I

#### Rate:

<u>Lamp Type</u>	<u>Wattage</u>	<u>Lumens</u>	<u>Monthly Rate per Luminaire</u>	
<u>Mercury Vapor (Closed)</u>				
	175 Watt	8,600 Lumens	\$ 9.05	R
	250 Watt	12,100 Lumens	\$ 11.10	R
	400 Watt	22,500 Lumens	\$ 15.55	R
	700 Watt	42,000 Lumens	\$ 24.15	R
 <u>Sodium Vapor</u>				
	50 Watt	3,800 Lumens	\$ 5.05	R
	70 Watt	5,800 Lumens	\$ 5.75	R
	100 Watt	9,500 Lumens	\$ 6.90	R
	150 Watt	16,000 Lumens	\$ 8.65	R
	250 Watt	27,500 Lumens	\$ 12.60	R
	*400 Watt	50,000 Lumens	\$ 17.00	R

\*Availability limited if mounting height exceeds 40 feet.

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment See Schedule X-1, Sheet No. E 63.

Service Included in Rate: Company shall furnish all electric energy necessary for operating customer's Street Lighting system, shall make all lamp renewals, clean the refractors, paint the metal poles and furnish the materials and labor necessary therefor. Where poles are of a nature not requiring painting, deduct 50¢ per luminaire from the monthly rate listed above.

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ISSUED: December 26, 2017.

EFFECTIVE: For service rendered on and after January 1, 2018.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-123 dated December 21, 2017.



**CUSTOMER OWNED STREET LIGHTING SERVICE (contd)**

Group II

<u>Rate</u>	<u>Lamp Type</u>	<u>Wattage</u>	<u>Lumens</u>	<u>Monthly Rate per Luminaire</u>	
	<u>Mercury Vapor (Closed)</u>				
		100 Watt	4,200 Lumens	\$ 3.65	R
		175 Watt	8,600 Lumens	\$ 5.85	R
		400 Watt	22,500 Lumens	\$ 13.10	R
		700 Watt	42,000 Lumens	\$ 22.30	R
	<u>Sodium Vapor</u>				
		35 Watt	2,250 Lumens	\$ 1.15	R
		50 Watt	3,800 Lumens	\$ 1.75	R
		70 Watt	5,800 Lumens	\$ 2.35	R
		100 Watt	9,500 Lumens	\$ 3.50	R
		150 Watt	16,000 Lumens	\$ 5.40	R
		200 Watt	22,000 Lumens	\$ 6.90	R
		250 Watt	27,500 Lumens	\$ 8.40	R
		400 Watt	50,000 Lumens	\$ 13.30	R
		1,000 Watt	140,000 Lumens	\$ 30.20	R

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

Service Included in Rate: Customer owns and maintains entire Ornamental Street Lighting system including cables, posts, lamps, ballasts, and glassware. Ballasts shall provide a power factor of at least 90%. Company furnishes energy only at central distribution points designated by Company.

**GROUPS I & II**

Daily Operating Schedule: The daily operating schedule of the above lamps shall be from approximately one-half hour after sunset until one-half hour before sunrise.

Outages: If illumination from any lamp is interrupted and said illumination is not resumed within three business days from the time Company receives notice thereof from customer, 1/30th of the monthly rate for such lamp shall be deducted for each night of non illumination after such notice is received.

Term of Agreement: The term of agreement shall be one year and shall continue in force thereafter for periods of one year unless terminated by written notice of cancellation given by either party to the other not less than 30 days prior to the expiration of any of said one-year periods.

Other Terms and Conditions: Other terms and conditions applicable hereto are contained in Schedules Ms-5 and 5.1.

Later Payment Charge: A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code: B33 Customer Owned Street Lighting Service

## COMPANY OWNED ORNAMENTAL STREET LIGHTING SERVICE (Closed)

Availability (Closed)

<u>Rate</u>	<u>Lamp Type</u>	<u>Wattage</u>	<u>Lumens</u>	<u>Monthly Rate per Luminaire</u>	
	<u>Mercury Vapor</u>	250 Watt	12,100 Lumens	\$ 19.80	R
		400 Watt	22,500 Lumens`	\$ 23.40	R
	<u>Sodium Vapor</u>	150 Watt	16,000 Lumens	\$ 18.70	
		250 Watt	27,500 Lumens	\$ 22.10	

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment See Schedule X-1, Sheet No. E 63.

Service Included in Rate Company shall own, operate and maintain the ornamental street lighting system. An ornamental system is defined as any lighting system, whether on wood, concrete or metal poles, upon which the Company is not allowed to carry its regular distribution facilities serving other classes of service, such as in a business district or along the route of a trunk highway through a community. An ornamental system is not intended to include poles and fixtures in distinctly residential areas where the Company's general distribution facilities are located in alleys and a simple overhead fixture is carried on an unpainted wood pole. Regardless of location, however, any special ornamental, decorative or painted pole requiring an unusual investment by the Company will be classified as an ornamental fixture.

Daily Operating Schedule The daily operating schedule of the above lamps shall be from approximately one-half hour after sunset until one-half hour before sunrise.

Outages If illumination from any lamp is interrupted and said illumination is not resumed within three business days from the time Company receives notice thereof from customer, 1/30th of the monthly rate for such lamp shall be deducted for each night of non illumination after such notice is received.

Term of Agreement The term of agreement shall be one year and shall continue in force thereafter for periods of one year, unless terminated by written notice of cancellation given by either party to the other not less than 30 days prior to the expiration of any of said one-year periods.

Other Terms and Conditions Other terms and conditions applicable hereto are contained in Schedules Ms-5 and 5.1.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code B34 Company Owned Ornamental Street Lighting Service (Closed)

ISSUED: December 26, 2017.

EFFECTIVE: For service rendered on and after January 1, 2018.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-123 dated December 21, 2017.

## STREET LIGHTING SERVICE

Terms and Conditions Applicable to Schedules Ms-1, 2, 3, 3.1, 4, 4.1, 4.2 and 6.

### General

1. Company shall have the right to replace any of the lamps by other lamps of the same type from time-to-time as it may deem necessary or desirable, provided, however, that the lamp substituted shall not give less illumination than that specified for the replaced lamp, and the customer will not receive an increased bill as a result.
2. If bills are not paid when and as provided, Company shall have the right to cease furnishing street lighting service and customer's liability shall not be avoided nor any right of Company waived by said acts of customer and Company.
3. In the event Company is prevented from performing the agreement wholly or in part by reason of any cause not reasonably within its control, including fire, explosion, flood, strike or unavoidable accident, Federal, State or Municipal interference, Company will (except in the event of a practically total destruction of its property or a practically total suspension of its business) proceed with all reasonable diligence to put itself and its works in condition to resume and continue that supply of electric energy and the performance of the agreement. During the existence of such interruption or cessation, Company will furnish as much electric energy and other service called for by the agreement as it is able to furnish, pro-rata, with the rightful requirements of its own uses and the uses of other customers. In the event of the total or partial interruption of service by reason of any cause not within the control of Company, including the above mentioned causes, it is understood that Company shall not be liable for damages caused by such interruption of service, except to the extent of a pro-rata reduction in the compensation agreed upon.
4. It is understood that all poles, wires, fixtures, apparatus and other material as may be used in carrying out the agreement shall be and remain the property of Company, and that Company shall have the right to install the same on public streets and alleys and on private ways of customer and to remove the same upon expiration of the agreement.
5. The rates for street lighting service supplied under the agreement shall be those as approved from time-to-time by the Public Service Commission of Wisconsin for such service.

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**STREET LIGHTING SERVICE (contd)**

Terms and Conditions Applicable to Schedules Ms-1, 2, 3, 3.1, 4, 4.1, 4.2 and 6, (contd).

Company Owned Systems

1. The type of service facilities installed (overhead or underground) shall be at the discretion of the Company.
2. Customer shall pay for the installation, replacement, and/or relocation of Company's facilities in accordance with the Company's rules and regulations and, as same, may hereafter be supplemented or modified by the Public Service Commission of Wisconsin.
3. Company's obligation to make new installations and to provide illumination shall be contingent on Company having the necessary permits and rights-of-way across private property without cost to Company.
4. Company will install such additional lamps as may be requested in writing and duly authorized by customer from time-to-time during the continuance of the agreement.

Customer Owned Systems

For customer owned street lighting system, Company shall furnish necessary temporary repairs to post wiring, lamp sockets, fuse blocks, fuses and switches arising out of ordinary wear and usage, not necessitating replacement or not occasioned by collision, accidents, Acts of God, or by changes in or additions to the system. Customer shall keep its cables, poles, foundations and fittings in a safe and workable condition, and replace cables, wiring, ballasts, poles, refractors and appurtenances thereto, except lamps, if such replacement becomes necessary as the result of damage by collision, accidents, Acts of God, long wear and usage, or any other cause not arising from some act of Company. When requested by customer, Company will make such replacements and customer shall reimburse Company for the cost incurred in making the same.

## UNDERGROUND AREA LIGHTING SERVICE

Availability: Available for year-round illumination of public streets or private ways in a URD area where such streets and ways are established and maintained primarily for the common use of residents of the URD area. Such illumination shall be provided by electric lamps in luminaires mounted on standards and served through underground circuits, where the facilities for this service are furnished by Company. Service hereunder will normally apply in residential areas. Service to 175 watt Mercury lamps under this schedule is limited to the lamps being served as of December 31, 1987.

<u>Rate</u>	<u>Designation of Lamps</u>	<u>Monthly Rate per Lamp</u>
	175 Watt-Mercury (Closed)	\$ 17.50
	100 Watt-High Pressure Sodium	\$ 14.70
	150 Watt-High Pressure Sodium	\$ 16.75

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Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

Service Included in Rate Company shall own, operate and maintain the URD Street Lighting system using Company's standard street lighting equipment which includes one lamp per standard.

Daily Operating Schedule The daily operating schedule of the above lamps shall be from approximately one-half hour after sunset until one-half hour before sunrise.

Outages If illumination from any lamp is interrupted and said illumination is not resumed within three business days from the time Company receives notice thereof from customer, 1/30<sup>th</sup> of the monthly rate for such lamp shall be deducted for each night of non-illumination after such notice is received.

Term of Agreement The term of agreement shall be one year and shall continue in force thereafter for periods of one year unless terminated by written notice of cancellation given by either party to the other not less than 30 days prior to the expiration of any of said one-year periods.

Other Terms and Conditions Other terms and conditions applicable hereto are contained in Schedules Ms-5 and Ms-5.1.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code:

- B35    Underground Area Lighting Service    Public
- B38    Underground Area Lighting Service    Private

**STREET LIGHTING SERVICE (METERED CUSTOMER-OWNED EQUIPMENT)**

Availability Available for year-round illumination of public streets, parkways and highways by uncommon electric lamps mounted on standards, where customer owns and maintains an ornamental street lighting system complete with standards, luminaries with globes, lamps, photocells, and other appurtenances, together with all necessary cables extending between standards and to point of connection to Company's meter as designated by Company.

Rate

Customer Charge per Meter per Month \$ 7.25

Energy Charge per kWh 6.8500 ¢

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Energy Cost Adjustment Clause Bills subject to the adjustment provided for in Energy Cost Adjustment Clause. See Schedule X-1, Sheet No. E 63.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Conditions of Service The customer owns and maintains ornamental street lighting system including underground cables, posts, lamps, ballast, photocells, and glassware. Company furnishes energy only at central metered distribution points designated by Company.

Rate Code

B36 Street Lighting Service (Metered Customer - Owned Equipment)

**MUNICIPAL WATER PUMPING SERVICE**

Availability: This schedule is available for municipal pumping purposes including incidental heating and lighting of buildings and premises in connection with the municipality's water system or sewage system. Customers with 15-minute measured demands exceeding 200 kW for at least 4 months of each calendar year have the option of being served under the Cg-9 Large General Time-of-Day service.

Kind of Service: Alternating current at the following nominal voltages:

- (a) for Secondary Voltage Service--three-wire single-phase and three-or four-wire three-phase at 208 volts or higher;
- (b) for Primary Voltage Service—three-phase at 2400 volts or higher. Service voltage available in any given case is dependent upon voltage and capacity of existing Company lines in vicinity of customer's premises.

Rate: (Rate schedule applied separately to each point of delivery.)

<u>Customer Charge per Month</u>		\$ 20.50		R
	<u>Secondary Voltage</u>		<u>Primary Voltage</u>	
Delivery Charge per kWh	4.200 ¢		2% Discount	R
<u>Energy Charge per kWh</u>				
June—September	8.318 ¢		2% Discount	R
October—May	7.165 ¢		2% Discount	R

(\* Primary discount applied before Energy Cost Adjustment)

Energy Cost Adjustment: Bills subject to the adjustment provided for in Energy Cost Adjustment See Schedule X-1, Sheet No. E 63.

Monthly Minimum Charge The customer charge plus 80¢ per HP for that portion of connected load exceeding 5 HP.

Power Factor The customer shall at all times take and use power in such manner that the average power factor shall be as near 100% as possible, but when the average power factor is less than 90% customer agrees to install the necessary corrective equipment to raise such power factor to at least 90%. The average power factor is defined to be the quotient obtained by dividing the kilowatt-hours used during the month by the square root of the sum of the squares of the kilowatt-hours used and the lagging reactive kilovolt-ampere-hours supplied during the same period. Any leading kilovolt-ampere-hours supplied during the period will not be considered in determining the average power factor.

Term The contract term shall be for a period of five years. Upon expiration of such term the agreement shall continue in force for periods of one year, unless terminated by thirty days' written notice given by either party to the other of its intention to terminate the agreement.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code: B22 Municipal Water Pumping Service

## FIRE SIREN SERVICE

Availability Available for power service for the operation of municipal fire sirens having a rated capacity not in excess of 10 horsepower.

Rate:

Connected Capacity Charge per Month per Horsepower 38.3¢ R

Minimum Net Charge per Month: \$ 2.00

Customer shall pay for the installation, replacement, and/or relocation of Company's facilities in accordance with the Company's rules and regulations and, as same, may hereafter be supplemented or modified by the Public Service Commission of Wisconsin.

The circuit serving the fire siren must be in conduit from the service entrance to the motor with an enclosed entrance switch box, which may be sealed and operated from an external appliance.

Optional In case the customer already has a service connection of sufficient capacity to permit operation of the fire siren without unduly disturbing conditions on the Company's nearby circuits, the fire siren may be connected, at the option of the customer, on the load side of the customer's existing meter and the commercial rate applied to the total load.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Rate Code: B20 Fire Siren Service



## MILITARY FACILITY DISTRIBUTION SERVICE

Availability: These services are available to provide for power distribution and related support necessary for the operation of the Fort McCoy military facility.

Types of Service: The distribution services provided are:

- 1) Distribution Facilities Service for providing distribution facilities,
- 2) Distribution Maintenance Service for operating and maintaining distribution facilities,
- 3) Metering Service for providing and maintaining point of service metering, and
- 4) Lighting Attachment Service for providing lighting luminaire attachment to distribution facilities.

Distribution Service Rate per Month per kW:

\$ 5.01

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### Distribution Services Charge Calculation:

The monthly Distribution Service Charge shall be the product of the monthly Distribution Service Rate multiplied by the customer's Distribution Billing Demand. The Distribution Billing Demand shall be the customer's greatest 15 minute load as determined for the customer's power supply service, regardless of time-of-day and not adjusted for power factor, which occurred during the past 12 months, including the current month.

### Services Provided:

#### Distribution Facilities Service

Under this service, the facilities provided include, but are not limited to, distribution substation equipment subsequent to the power supply billing meter, primary and secondary voltage distribution lines, line transformers, and service drops.

#### Distribution Maintenance Service

Included under this service are equipment inspection and testing, facilities locating, service calls and outage restoration.

#### Metering Service

The purpose of such metering is for Customer to monitor and record electricity usage. Customer is responsible for meter reading and subsequent usage of the data. Meters will be maintained under the Metering Service to billing accuracy standards in accordance with Wisconsin Administrative Code, Chapter PSC 113, entitled "SERVICE RULES FOR ELECTRICAL UTILITIES".

#### Lighting Attachment Service

The Lighting Attachment Service provides for the Customer to attach lighting units to Company's distribution facilities and for the company to energize such lighting units. The operating and maintenance this service includes replacement of poles, secondary conductor repair or replacement and maintenance of lighting wire connections.

Rate Code: B45 Distribution Service

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ISSUED: December 26, 2017.

EFFECTIVE: For service rendered on and after January 1, 2018.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-123 dated December 21, 2017.

**VOLUNTARY RENEWABLE ENERGY RIDER (WINDSOURCE<sup>®</sup>)**

Effective in: All territory served by the Company

Availability: Available to any retail metered electric customer who chooses to purchase energy from renewable resources.

Rate: \$ 1.33 per 100 kWh renewable energy block per month.

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Energy Cost Adjustment The rate above will be adjusted to offset any changes in the Energy Cost Adjustment Clause (Sheet E 63). (Any energy cost adjustment charge/credit will be billed under the base service, the Windsorce rider will be adjusted to offset this charge)

**Terms and Conditions**

1. In addition to the rate above, all rates and condition of delivery of the applicable rate schedule under which the customer is currently served are applicable.
2. The minimum monthly subscription is one 100 kWh block. Customers must agree to be on the program for a minimum of 12 consecutive months. After the minimum period, customers will continue month to month until the subscription is terminated with 30 days notice. A 100% use option is also available.  
For non-residential customers (e.g. hotels, arenas, stadiums), some event-specific arrangements to serve clients can be made at the sole discretion of the Company.
3. In the event the customer metered energy use is lower than the subscribed renewable energy blocks, the additional charge for any unused or partially used 100 kWhs block will be prorated accordingly.
4. All rates are subject to periodic re-pricing as approved by the Public Service Commission of Wisconsin.
5. Service under this schedule provides for generation or purchase of renewable energy into the Company's system and not for actual delivery to the customer. Renewable energy supply can be obtained through the purchase, use and retirement of renewable credits from a facility certified as renewable by the PSCW and / or renewable credit certified by an independent certification company.
6. The Company reserves the right to deny or terminate subscriptions under this tariff to customers in arrears with the Company.
7. The Company reserves the right to limit subscriptions due to the availability to renewable energy.

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## Experimental Advanced Renewable Energy Purchase Service (Closed)

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Effective In All territories served by the Company.

### Definition:

Distributed generation facilities are electricity generators owned by the customer, located close to the point of energy consumption, and small in scale, usually no more than the existing load of the customer.

Availability The advanced renewable energy tariff is available to retail customers who own small distributed generation facilities that are powered by a renewable resource and placed in initial service after January 1, 2012, or who executed an advanced renewable energy contract prior to January 1, 2012. Electric providers are not allowed to own a majority share of the projects that participate in the tariff. Small renewable distributed generators may sign up for this tariff until the tariff has been fully subscribed or the capacity for a specific technology has been reached as determined by the caps described below.

### Size

There is no minimum project size requirement for this tariff, but the maximum size project per customer is:

- Biomass/Biogas:
  - Tier 1: 800 kW
  - Tier 2: 2 MW
  - Tier 3: 5 MW (Community-based Projects Only)
- Wind:
  - Tier 1: 100 kW
  - Tier 2: 2 MW
  - Tier 3: 5 MW (Community-based Projects)
- Solar: 10 kW
- Community-based Projects: 5 MW

### Environmental and Renewable Energy Credits

The Company retains the rights and ownership to any environmental credits (including any RECs, methane offsets, carbon credits, etc.) generated under this tariff.

### Program Subscription Limits

The Company offers the advanced renewable energy tariff to retail customers, beginning at the effective date of the tariff, until fully subscribed. A fully subscribed tariff offering will be reached when small, renewable distributed generation accounts for one-quarter percent (0.25%) of the Company's retail electricity sales (in megawatt-hours) for 2010 as submitted in the Company's FERC Form 1 filing. The total amount of generation used to meet the subscription limit will include that amount of generation provided by facilities that subscribed to the original experimental advanced renewable energy tariff issued on January 8, 2008.

(continued)

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ISSUED: December 23, 2015

EFFECTIVE: For service rendered on and after January 1, 2016.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-121 dated December 23, 2015.

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## Experimental Advanced Renewable Energy Purchase Service (continued) (Closed) R

### Pricing (continued)

- **Community-Based Energy Systems** (The payment rate for community-based energy systems taking service under this tariff and properly connected to the utility distribution system is as follows):
  - \$0.070 per kWh Wind
  - \$0.080 per kWh Biomass/Biogas

### Tariff Period Length and Guaranteed Payment Rate

The effective term for an advanced renewable energy payment rate is ten (10) years from the effective date of the contract. Once established on the effective date of the contract, the payment rate under this tariff is constant over the ten year period.

At the end of the 10 year period, no other payment program is available, the generator will be paid the standard “avoided cost” default buy-back period for generators as defined by existing utility tariffs.

### Tariff Escalation

No adjustments to the advanced renewable energy tariff will be made based on cost or fuel cost escalation.

### Metering

A separate meter is required to measure the electricity produced by the customer. The customer shall furnish and install all equipment and wiring for meter installation, including such associated facilities as meter sockets, meter enclosures, meter test block enclosure, current transformer enclosures, etc., as may be required by Company to properly meter total power generated by the customer.

### Metering Charges:

Generators rated 100 kW or less and delivering electric energy at less than 200 amps.	\$ 6.40/mo.
Generators rated 100 kW or less and delivering energy at more than 200 amps.	\$ 8.60/mo.
Generators rated at more than 100 kW	\$ 13.80/mo.

Additional meter charges may apply. The customer is obligated to pay the cost, if any, associated with any more extensive meter requirements. Specific metering requirements will vary depending on the installation.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the due date on the bill.

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ISSUED: December 23, 2015

EFFECTIVE: For service rendered on and after January 1, 2016.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-121 dated December 23, 2015.

**Experimental Advanced Renewable Energy Purchase Service (continued) (Closed) R**  
Technology Limit

The solar technology category will be fully subscribed when 300 kW of capacity has been subscribed.

Community-based Limits

The Community-based Project Category is only applicable to the Biomass/Biogas and Wind technology categories and will be fully subscribed when 5 MW of capacity has been subscribed. In addition, the Community-based Category is applicable only to projects owned by local units of government (Village, City, Town or County), or to projects majority-owned by existing retail customers that choose to join together to develop a joint project.

Connection

Generation facilities must meet the interconnection requirements of the “Rules for Interconnecting Distributed Generation Facilities” (PSC 119). Interconnection of the generator will be at distribution voltage only (less than 50 kV). Customer systems shall also be connected in accordance with all PSCW and Company requirements.

Pricing

The advanced renewable energy tariff pricing is structured as a fixed payment for all electrical output. The price paid for renewable generation under the advanced renewable energy tariff is based on or near production costs associated with each renewable energy technology covered by this tariff. Customers operating renewable systems shall be paid at the rates shown below for 100% of the generator output, regardless of customer usage or base rate applicability:

The prices for renewable resources offered under the advanced renewable energy tariff are as follows:

- **Biomass/Biogas Energy Systems** (The payment rate for biomass/biogas energy systems taking service under this tariff and properly connected to the utility distribution system is as follows):
  - Tier 1: \$0.086 per kWh
  - Tier 2: \$0.082 per kWh
  - Tier 3 (Community-based Projects Only): \$0.080 per kWh
- **Wind Energy Systems** (The payment rate for wind energy systems taking service under this tariff and properly connected to the utility distribution system is as follows):
  - Tier 1: \$0.080 per kWh
  - Tier 2: \$0.075 per kWh
  - Tier 3 (Community-based Projects Only): \$0.070 per kWh
- **Solar Energy Systems** (The payment rate for solar energy systems taking service under this tariff and properly connected to the utility distribution system is as follows):
  - The customer will receive a \$1.50/watt capital incentive payment up to a total of \$15,000 per facility.
  - \$0.11 per kWh

(continued)

## VOLUNTARY SOLAR ENERGY RIDER PILOT (SOLAR\*CONNECT COMMUNITY<sup>SM</sup>)

Effective in: All territory served by the Company

Availability: Available to any retail metered electric customer taking service from the Company under Schedules Rg-1, Rg-2, Fg-1, Cg-1, Cg-2, Cg-7, Cp-3, Cg-9, Cp-1, Mp-1, or RTP-1 that chooses to offset electric charges through a Subscription in the Company Solar Gardens per the terms of a Solar Garden Contract with the Company, provided that the following requirements are met:

- a. The Company Solar Gardens must not have less than five (5) Subscribers;
- b. No single Subscriber (including its affiliates) may have more than a forty (40) percent interest in the Company Solar Gardens.

Subscription Size: A Subscription shall mean a proportionate interest in the beneficial use of the electricity generated by the Company Solar Gardens. The Company Solar Gardens may consist of one or more individually metered solar photovoltaic generating facilities. Subscriptions may be elected in blocks of 200 Watts (DC) and sized up to 100% of the average annual usage at the premise of each Subscriber, as determined by the Company, but the Subscription, when combined with certain other Tariff offerings, may not exceed 100% of the average annual usage as set forth in the Solar Garden Contract, and in no case may a Subscriber subscribe to more than 400 kW (DC) of solar capacity under this Tariff. If available, the Company will use the most recent 24 months of historical electric energy consumption data to determine the Subscriber's average annual usage.

Program Subscription Limit:

The Company offers the voluntary solar energy rider to retail metered electric customers, beginning at the effective date of the tariff, until fully subscribed. A fully subscribed tariff offering will be reached when the total amount of Subscriptions is equal to 3 MW (DC). Subscriptions may be offered for one or more Company Solar Gardens, but the total amount of capacity available for subscription shall not exceed 3 MW. The Company Solar Gardens may be comprised of more than one solar photovoltaic generating facility; however, a single solar photovoltaic generating facility shall not exceed 1 MW in size.

In processing applications for Subscriptions for Company Solar Gardens, the Company will use a first come, first served, approach to processing applications based on available capacity for the Company Solar Gardens. In the event available capacity is limited, the Company may give preference to Subscriptions from customers located in the same region as one of the solar photovoltaic generating facilities that comprises the Company Solar Gardens. The Company intends to offer Subscriptions through this tariff, and cannot guarantee customers will have the option to have one of the solar photovoltaic generating facilities that comprises the Company Solar Gardens located in their region. In its sole discretion, consistent with the terms of this tariff, the Company reserves the right to determine the size, number and locations of the solar photovoltaic generating facilities that comprises the Company Solar Gardens.

Subscription Period Length:

Subscriptions for the first 2 MW of capacity offered under this pilot program will have an effective term beginning September 1, 2017. Subscriptions for the last 1 MW of capacity offered under this pilot program will have an effective term beginning on a date identified by the Company. The maximum effective term for the monthly Solar Production Credit is 25 years from the beginning of commercial operation of one or more of the solar photovoltaic generating facility or facilities that comprises the Company Solar Gardens, as applicable and identified by the Company.

(continued)

## VOLUNTARY SOLAR ENERGY RIDER PILOT (SOLAR\*CONNECT COMMUNITY<sup>SM</sup>) (continued)

Subscriber Upfront Enrollment Fee: Subscribers will be subject to an Enrollment Fee equal to \$1600 per kW (DC) of the Subscription. This fee is due in two parts: R

1. An initial Enrollment Deposit Charge, due at the time of enrollment, equal to \$200.00 per kW (DC) of the Subscription Size; and
2. The Balance of the Enrollment Fee, due prior to the start of the Contract Term, as defined in the Solar Garden Contract, equal to \$1600 per kW (DC) of the Subscription Size minus the Enrollment Deposit Charge already paid (item 1 above). R

Upfront Enrollment Fee Price Factor Schedule: The Subscriber Enrollment Fee of \$1600 per kW (DC) is subject to application of a percentage factor in Table A below, based on the number of years the Company Solar Gardens subscription capacity has been available at the time of the payment by the Subscriber for enrollment. For example, for purposes of Table A, for the first 2 MW of capacity offered, Year 1 begins on September 1, 2017, and the first day of each subsequent year is September 1. R  
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Table A. Schedule for Subscription Enrollment Fee Price Factor and Other Cancellation by Company

Year	Percent of Purchase Price	Year	Percent of Purchase Price	Year	Percent of Purchase Price
1	100%	10	66%	19	30%
2	98%	11	62%	20	26%
3	94%	12	58%	21	22%
4	90%	13	54%	22	18%
5	86%	14	50%	23	14%
6	82%	15	46%	24	10%
7	78%	16	42%	25	6%
8	74%	17	38%	<u>26</u>	<u>4%</u>
9	70%	18	34%	<u>27</u>	<u>0%</u>

Monthly Solar Production Credit: Subscribers will receive a credit on their bill for retail electric service. The amount of the bill credit a Subscriber is eligible to receive will depend upon the type of retail metered electric service the Subscriber receives from the Company. For purposes of the Solar Production Credit, Subscribers will be categorized as either Class 1 (“small”) or Class 2 (“large”) as follows: R  
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- Class 1: Customers receiving service under Schedule Rg-1, Rg-2, Fg-1, Cg-1, Cg-2, Cg-7, Cp-3, or Mp-1;
- Class 2: Customers receiving service under Schedule Cg-9, Cp-1, or RTP-1.

The Solar Production Credit for solar energy associated with the Subscription shall be at the Company’s average embedded production cost per kWh currently reflected in retail rates for customers in the Subscriber’s Class (1 or 2), or at \$0.0740 per kWh for Class 1 and \$0.0690 per kWh for Class 2, whichever is higher. The amount of this credit is subject to change as the average embedded production cost per customer reflected in retail rates changes, but the credit will never be lower than \$0.0740 per kWh for Class 1 Subscribers, and will never be lower than \$0.0690 per kWh for Class 2 Subscribers.

(continued)

ISSUED: December 1, 2017

EFFECTIVE: For service rendered on and after November 24, 2017.

PSCW AUTHORIZATION: Letter in Docket No. 4220-TE-101 dated November 17, 2017

**VOLUNTARY SOLAR ENERGY RIDER PILOT  
(SOLAR\*CONNECT COMMUNITY<sup>SM</sup>) (continued)**

Monthly Solar Production Credit (cont'd'):

The Solar Production Credit Rate currently in effect for Class 1 is **\$0.0750** per kWh of solar energy. The Solar Production Credit Rate currently in effect for Class 2 is **\$0.0690** per kWh of solar energy.

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The Company will provide a Solar Production Credit at the Solar Production Credit Rate on each Subscriber's bill for retail electric service for the applicable Production Month. The Production Month to which the Solar Production Credit is applicable shall not necessarily match the billing period for the retail electric service bill in which the Solar Production Credit is applied.

Cancellation: The Subscriber is not eligible to receive a refund of any portion of the upfront enrollment fee upon cancellation of the Subscription except as described in the paragraph titled Refund Upon Cancellation below.

The Solar Garden Contract with the Subscriber is considered to be cancelled and is not eligible to a refund of the pro rata share of the upfront enrollment fee upon any of the following circumstances:

1. The Subscriber for 90 days or more is no longer the customer of record for the Service Address identified in the Subscriber's Solar Garden Contract, and the Solar Garden Contract was not properly assigned to another eligible Service Address before the end of this 90 day period.
2. In the event that the Subscriber (including its affiliates, partnership it belongs to, and any situation where it and another have a joint or common interest) has more than a 40% interest in the beneficial use of electricity generated by a Company Solar Garden, the level of participation above such a 40% interest shall be canceled and is subject to the cancellation charge for the portion of the Subscription Size above the 40% interest cap. The Company will provide notice to the Subscriber of the effective date and level of the new Subscription Size.
3. If any of the representations of the Subscriber are false or incorrect, such false or incorrect representation shall constitute a material breach of the Solar Garden Contract and the Company may cancel the Solar Garden Contract upon notice to the Subscriber.

Refund Upon Cancellation: In the event the Subscriber provides notice of cancellation due to Force Majeure, or due to the Subscriber moving or relocating outside the Service Territory of the Company, or ceasing to be a customer of the Company for other reasons, the Company will refund a pro rata share of the Subscriber's Enrollment Fee, as set forth in Table B below, except that a Subscription that has been donated under the paragraph titled Subscription Donation below is not eligible for a refund under this paragraph. For purposes of Table B, Year 1 begins on the date of commercial operation of the Company Solar Garden, and the first day of each subsequent year is the anniversary of the date of commercial operation.

(continued)



## VOLUNTARY SOLAR ENERGY RIDER PILOT (SOLAR\*CONNECT COMMUNITY<sup>SM</sup>) (continued)

Refund Upon Cancellation (cont'd):

Table B. Cancellation Due to Moving/Relocation Refund Schedule

Year	Percent of Purchase Price	Year	Percent of Purchase Price	Year	Percent of Purchase Price
1	98%	10	62%	19	26%
2	94%	11	58%	20	22%
3	90%	12	54%	21	18%
4	86%	13	50%	22	14%
5	82%	14	46%	23	10%
6	78%	15	42%	24	6%
7	74%	16	38%	25	2%
8	70%	17	34%	<u>26</u>	<u>0%</u>
9	66%	18	30%	<u>27</u>	<u>0%</u>

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Prior to September 1, 2017, a Subscriber may cancel its Subscription and receive a full refund of 100% of the Purchase Price or Enrollment Deposit Charge, as applicable.

Subscription Transfer: A Subscriber may elect to transfer the Subscription to a new premise of the Subscriber which is in the Service Territory of the Company. Such transfer is not subject to cancellation provided that the Subscriber notifies the Company within 90 days of ceasing to be the customer of record for the premise as described in the Solar Garden Contract. In the event that a Subscription of the same Size at the new premise would exceed 100% of the average annual usage at the new premise, then the Subscription will be reduced without charge to a level which complies with the maximum Subscription Size, described above, for the new premise and other requirements of the Solar Garden Contract. The Company will provide written or email notice as to the effective date of the transfer to the new Service Address and the new Subscription Size, and this information will be deemed to replace the corresponding information on the Solar Garden Contract. In the event of a reduction in Subscription Size due to transfer, the Company will refund the excess portion of the Subscription at a percentage of the refund amount using Table A above.

Subscription Donation: In the event the Subscription is eligible for a Subscription Transfer or a Refund Upon Cancellation as described above, the Subscriber may instead elect to donate the Subscription to a not-for-profit organization that is a retail metered electric customer of the Company. Subscription Donation will only be effective if the recipient satisfies the terms and conditions applicable to the Subscription and the Solar Garden Contract and assumes all responsibilities associated therewith. Once a Subscription has been donated, this paragraph will no longer apply, and the Subscription will no longer be eligible for further donation, except as noted below.

In the event a not-for-profit organization that has received a donated subscription ceases to be a customer of the Company, the Company will identify another interested and eligible not-for-profit organization that is a retail metered electric customer of the Company to receive donation of the Subscription.

ISSUED: December 1, 2017

EFFECTIVE: For service rendered on and after November 24, 2017.

PSCW AUTHORIZATION: Letter in Docket No. 4220-TE-101 dated November 17, 2017

**VOLUNTARY SOLAR ENERGY RIDER PILOT  
(SOLAR\*CONNECT COMMUNITY<sup>SM</sup>) (continued)**

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Cancellation by Company: The Company shall have the unilateral right to cancel a Subscription at any time if the Company Solar Garden does not achieve commercial operation, experiences a Force Majeure event, or for any other reason. Upon cancellation by the Company for any reason other than violation of any of the rules of this Voluntary Solar Energy Rider, the Company shall refund a pro rata share of the Subscriber's Enrollment Fee using Table A above, except that a Subscription that has been donated under the paragraph titled Subscription Donation above is not eligible for a refund under this paragraph.

Terms and Conditions

1. In addition to the rate above, all rates and condition of delivery of the applicable rate schedule under which the customer is currently served are applicable.
2. All terms and conditions apply as stated in the Solar Garden Contract between the Company and the Subscriber for participation in a Company Solar Garden.
3. All Renewable Energy Credits (RECs) associated with the Subscription shall be assigned to the Company on behalf of the Subscriber, and the Company shall retire any RECs associated with a Subscription that are tracked in the Midwest Renewable Energy Tracking System program or any similar program on behalf of the Subscriber.
4. A customer may only subscribe to both this schedule and the Company's Voluntary Renewable Energy Rider (Windsorce<sup>®</sup>) if the total amount of both subscriptions combined does not exceed 100% of the average annual usage at the premise of the Subscriber. If a customer's premise is served by distributed generation resources, the Subscription Size combined with the distributed generation resources may not exceed 100% of the average annual usage at the premise of the Subscriber.
5. Solar gardens shall be interconnected to the Company's distribution system, and there shall be no more than 1 MW of Company Solar Garden capacity interconnected to a single distribution feeder.
6. If the Solar Production Credit exceeds the amount owed in any billing period, the excess portion of the Solar Production Credit in any billing period shall be carried forward and credited against all charges.
7. All rates are subject to periodic re-pricing as approved by the Public Service Commission of Wisconsin.
8. Service under this schedule provides for generation or purchase of solar energy into the Company's system and not for actual delivery to the customer.
9. The Company reserves the right to deny or terminate Subscriptions under this tariff to customers in arrears with the Company.
10. The Company reserves the right to limit Subscriptions due to the availability of solar energy from Company Solar Gardens.
11. The Company reserves the right to terminate this pilot program in its sole discretion upon a requisite filing to the Public Service Commission of Wisconsin.

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**PARALLEL GENERATION - NET ENERGY BILLING SERVICE**

Effective In All territories served by the Company.

Availability Available to any retail electric customer with customer owned renewable resource generation of 100 kW or less per site for purpose of operating generation interconnected with Company's system, where customer's delivery offsets retail electric consumption at the same site. If a customer has more than one electric generator on a site, the generators' ratings shall be summed and the sum may not exceed 100 kW per site. For purposes of determining compliance with this paragraph, generator size shall be determined based on the alternating current (AC) nameplate rating of the generator or inverter, as applicable.

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Renewable resource generators include generating systems which exclusively utilize wind, solar photovoltaic, wood or wood waste, refuse derived fuel, biogas, or hydro-electric generators that must meet the renewable resource definition contained in Wisconsin Statute 196.378. Renewable resource generation equipment must be located on the customer's premises serving only the customer's premises.

Monthly Energy Credit

- 1) A retail electric customer generating power with renewable resource facilities shall be billed monthly on a net energy basis. The retail electric customer may offset electricity usage measured on a single retail electric meter located at the same site each month on a net energy basis. For customers served under a Time of Use metered service, on-peak period generation shall only offset customer's on-peak period consumption. Off-peak period generation shall only offset customer's off-peak period consumption. For customers served under a non-Time of Use metered service, all generation shall offset customer's consumption, regardless of Time of Use.
- 2) Generation produced by Customer's facility and delivered to the Company in excess of Customer usage will be carried forward from month-to-month until the end of the calendar year in which the excess generation is produced. Customer usage in any given month will be netted against the outstanding generation balance(s).
- 3) At the end of the calendar year any excess generation will be netted against any usage not already offset during the calendar year. Customer will receive a credit for generation that is netted against any usage not already offset during the calendar year at the customer's retail rate. If customer receives retail service on a Time of Use basis, then customer will receive credit for any remaining generation balance after this netting at the appropriate (either on-peak or off-peak) Pg-2A service rate. If customer receives retail service on a non-Time of Use basis, then excess generation at the end of the calendar year, shall be compensated at the Pg-2A service using the weighted average of 34.8% of the on-peak Pg-2A rate and 65.2% of the off-peak Pg-2A rate.
- 4) This credit will be issued to the customer in the form of a check. Any credit balance \$2.00 or less in value will be applied to the customer's account.

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**PARALLEL GENERATION - NET ENERGY BILLING SERVICE (cont'd)**

Special Rules

- 1) Customer's generation facility shall be permanently connected to only those facilities receiving service under schedules with similar rate designs. Customer shall not switch the generation between two or more rate schedules. This tariff applies only to the energy generated by Customer's renewable resource generation facilities.
- 2) Customer shall retain all renewable credits and other attributes associated with the energy provided to the Company pursuant to this tariff.

D

Energy Cost Adjustment Energy Payments based on retail energy rates are subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

Terms and Conditions of Service See Schedule PG-3.

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**PARALLEL GENERATION - ENERGY PURCHASE SERVICE-(cancelled)**

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Pg-2 service has been cancelled and is replaced by Pg-2A or Pg-2B or Pg-2C services. Please refer to the appropriate tariff sheet for the applicable replacement service as follows:

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<u>Replacement Pg-2 service</u>	<u>Generator Size</u>	<u>Type of Pricing</u>
Pg-2A	2,000 kW or less	Historical Average LMP
Pg-2B	5,000 kW or less	Day Ahead LMP
Pg-2C	20,000 kW or less	Negotiated Purchase

N

## **PARALLEL GENERATION - HYDROELECTRIC ENERGY PURCHASE SERVICE (closed)**

Effective In All territories served by the Company.

Availability Available to any retail electric customer with hydroelectric generation of more than 20 kW and less than 500 kW capacity for the purpose of operating generating facilities interconnected with Company's system, where customer's hydroelectric output is purchased by Company. To qualify for this service, customer must execute a Hydroelectric Energy Purchase Service Agreement.

This service is available to high capacity factor output hydroelectric generating facilities that are constructed subsequent to June 1, 1991. The Company shall determine whether the facility is of such design and location that output can reasonably be expected to meet or exceed a minimum of 70% capacity factor, calculated on an annual basis for both on-peak and off-peak periods for the duration of the contract.

Compensation Customer shall receive monthly payment, as provided below, for electricity delivered to Company based upon the energy provided from the customer's generation. Customer shall be billed by Company for metering and associated billing expenses as provided below.

### Customer Charge per month

Generators rated from 21 kW to 100 kW delivering at less than 200 amps.	\$ 6.40/mo.	R
Generators rated from 21 kW to 100 kW delivering more than 200 amps.	\$ 8.60/mo.	
Generators rated at more than 100 kW	\$13.80/mo.	R

Term Customer may elect either a 20-year- or 35-year-term contract for service.

Rate Form New rate forms for compensation under this service may be in effect from time to time. However, customer may select only one rate form for the contract term. The rate form selected by the customer will remain in effect for the contract term.

Rate Options available on this schedule are either average rate- or Time-of-Day rate-based compensation for either a 20- or a 35-year term.

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ISSUED: December 23, 2011

EFFECTIVE: For service rendered on and after January 1, 2012.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-117 dated December 22, 2011.

**PARALLEL GENERATION - HYDROELECTRIC ENERGY PURCHASE SERVICE (closed)**

Capacity Rate The Capacity Rate is based upon the first year that the turbo-generator unit begins delivery to Company. If customer chooses to discontinue delivery from a turbo-generator unit, and then at some later date chooses to resume delivery from that same unit, the Capacity Rate for compensation for that unit's output shall be the Capacity Rate established for the year in which the unit began delivery to Company.

Delivery at Primary Voltage Level

<u>Capacity Rate</u>	<u>20-Year Option</u> ¢/kWh	<u>35-Year Option</u> ¢/kWh	
Service beginning in 1992	NA	4.22	
Service beginning in 1996	NA	NA	
Service beginning in 1997	NA	NA	
	<u>Average Rate</u> ¢/kWh	<u>On-Peak Rate</u> ¢/kWh	<u>Off-Peak Rate</u> ¢/kWh
Service in Year 1996 & After	3.620	NA	NA

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Energy Cost Adjustment Payments are subject to the adjustment provided for in Energy Cost Adjustment. See Schedule X-1, Sheet No. E 63.

(continued)

ISSUED: December 20, 2013

EFFECTIVE: For service rendered on and after January 1, 2014.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-119 dated December 20, 2013.

**PARALLEL GENERATION-HYDROELECTRIC ENERGY PURCHASE SERVICE (closed)**

R

Capacity Payment Amount Compensation according to the capacity rate shall be calculated each month as the product of the Capacity Rate, based on the year in which delivery began for the facility, multiplied by the delivered energy in the billing period.

Energy Payment Amount Compensation for energy delivered from customer's facility to company is the product of the appropriate energy rate for the year in which service is provided, multiplied by the delivered energy amounts in kWh during the billing period.

If the average rate option is selected, all kWh output of the average energy rate shall be applied to all kWh output of the customer's facility. If the TOD rate option is selected, the on-peak energy rate shall be applied to the kWh output delivered by customer's facility during the on-peak hours, and the off-peak rate shall be applied to the kWh output delivered by customer's facility during the off-peak hours.

Definition of Peak Periods On-peak hours shall be from 9:00 a.m. to 9:00 p.m. Monday through Friday, inclusive (excluding holidays), for the 12 months beginning with the first full billing period following December 15. The holidays designated shall be New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas, on the day nationally designated to be celebrated as such. When a designated holiday occurs on Saturday, the preceding Friday will be considered an off-peak day. When a designated holiday occurs on a Sunday, the following Monday will be considered an off-peak day.

Off-peak hours are times not specified as on-peak hours.

Rated Capacity Prior to each calendar year of operation, customer shall perform generation unit(s) capacity rating(s), according to Mid-Continent Area Power Pool agreement procedures, adjusted for the average of July and August conditions.

Capacity Factor The capacity factor for a period is calculated as the ratio of the energy delivery for the period divided by the product of the hours in the period multiplied by the maximum one-hour energy delivery (one-hour integrated capacity) for the same period.

Delivery Standards If the customer's facility continually performs with an annual capacity factor of less than 70% or with derated power output, then customer is expected to expend best efforts to remedy the facility performance. If customer does not extend best efforts to remedy performance problems, then company has option, after twelve months' prior notification and approval of the PSCW, of providing compensation to customer under the PG-2 service until customer remedies facility performance.

Recording Equipment For time series recording metering, customer shall provide telephone facilities, including telephone jack at point of metering.

Terms and Conditions of Service See Schedule Pg-3.



## PARALLEL GENERATION - ENERGY PURCHASE SERVICE

Effective In All territories served by the Company.

Availability Available to any retail electric customer with generation certified as a “qualifying facility” under Part 292 of the Federal Energy Regulatory Commission’s regulations under the Public Utility Regulatory Policies Act of 1978, rated 2,000 kW or less for purpose of operating generation interconnected with Company's system, where customer's delivery is purchased by Company.

Rate Customer shall receive monthly payment for all electricity delivered to Company and shall be billed by Company for metering and associated billing expenses as presented below.

### Customer Charge

Generators rated from 21 kW to 100 kW delivering at less than 200 amps.	\$ 6.40/mo.
Generators rated from 21 kW to 100 kW delivering more than 200 amps.	\$ 8.60/mo.
Generators rated at more than 100 kW	\$ 13.80/mo.

### Energy Credit for Deliveries to Company

On-Peak Energy Credit Rate: For **2018** rates, the on-peak energy credit rate shall be equal to the average of the on-peak Day Ahead Locational Marginal Prices (“DA LMP”) at the NSP.NSP load zone node for the previous year November 1, **2016** to October 31, **2017**. The rates shall be reset annually on January 1 of each year based on the hourly average on-peak DA LMP at the NSP.NSP load zone node of the most recently completed November 1 to October 31 period. The on-peak credit rate for **2018** is \$ **0.02933** per kWh. R

Off-Peak Energy Credit Rate: For **2018** rates, the off-peak energy credit rate shall be equal to the average of the off-peak Day Ahead Locational Marginal Prices (“DA LMP”) at the NSP.NSP load zone node for the previous year November 1, **2016** to October 31, **2017**. The rates shall be reset annually on January 1 of each year based on the hourly average off-peak DA LMP at the NSP.NSP load zone node of the most recently completed November 1 to October 31 period. The off-peak credit rate for **2018** is \$ **0.02075** per kWh. R

Definition of Peak Periods Unless specified to the contrary in writing by the Company to any customers using this schedule and refilling this rate sheet not later than November 1 of each year, on-peak hours shall be from 9:00 a.m. to 9:00 p.m. Monday through Friday, inclusive (excluding holidays), for the 12 months beginning with the first full billing period following December 15. The holidays designated shall be New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas, on the day nationally designated to be celebrated as such. When a designated holiday occurs on Saturday, the preceding Friday will be considered an off-peak day. When a designated holiday occurs on a Sunday, the following Monday will be considered an off-peak day. Off-peak hours are times not specified as on-peak hours.

ISSUED: December 26, 2017

EFFECTIVE: For service rendered on and after January 1, 2018.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-123 dated December 21, 2017.

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**PARALLEL GENERATION - ENERGY PURCHASE SERVICE(cont'd)**

Energy Loss Factors: The following loss factors shall be applied to the on-peak and off-peak energy credit rates and capacity payments to reflect Company system losses:

Customers Generation metered at Transmission (transformed) ;	1.05116
Customers Generation metered at Primary ;	1.09577
Customers Generation metered at Secondary ;	1.06481

Capacity Payment: Should the Midwest Independent Transmission System Operator (“MISO”) implement a capacity market, a capacity credit shall be implemented reflecting the MISO capacity market pricing method.

Renewable Premium: At the Company’s sole discretion, a premium to be paid on a per kWh basis maybe applied to generators that generate a renewable credit that is transferred to the Company. Customers retain the right to refuse a renewable premium and keep the renewable credits or tags. Premiums could be set when the contract is signed.

Terms and Conditions of Service See Schedule PG-3.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

## PARALLEL GENERATION - ENERGY PURCHASE SERVICE - LMP

Effective In All territories served by the Company.

Availability Available to any retail electric customer with generation certified as a “qualifying facility” under Part 292 of the Federal Energy Regulatory Commission’s regulations under the Public Utility Regulatory Policies Act of 1978, rated 5,000 kW or less for purpose of operating generation interconnected with Company's system, where customer's delivery is purchased by Company. Customers with generating capacity of 2,000 kW or less have the option of selling energy to the Company under this Pg-2B tariff or the Pg-2A tariff.

The existing Pg-2A customers desiring to change to the Pg-2B tariff can do so only in the beginning of the next calendar year and must stay on the new rate for at least one full calendar year. Similarly, the existing Pg-2B customers of 2,000 kW or less desiring to change to the Pg-2A tariff can only change in the beginning of the next calendar year and must stay on the new rates for at least one full calendar year. This transition between these two tariffs can occur only at the beginning of the calendar year.

Rates Customer shall receive monthly payment for all electricity delivered to Company and shall be billed by Company for metering and associated billing expenses as presented below.

Customer Charge \$ 13.80/mo.

### Energy Credit for Deliveries to Company

The customer shall be compensated at the hourly Day Ahead Locational Marginal Prices (“DA LMP”) at the NSP.NSP load zone node expressed in \$/kWh.

Capacity Payment Should the Midwest Independent Transmission System Operator (“MISO”) implement a capacity market, a capacity credit shall be implemented reflecting the MISO capacity market pricing method.

Energy Loss Factors The following loss factors shall be applied to the on-peak and off-peak energy credit rates and capacity payments to reflect Company system losses:

Customers Generation metered at Transmission (transformed) ;	1.05116
Customers Generation metered at Primary ;	1.09577
Customers Generation metered at Secondary ;	1.06481

Renewable Premium: At the Company’s sole discretion, a premium to be paid on a per kWh basis maybe applied to generators that generate a renewable credit that is transferred to the Company. Customers retain the right to refuse a renewable premium and keep the renewable credits or tags. Premiums could be set when the contract is signed.

Terms and Conditions of Service See Schedule PG-3.

Late Payment Charge A one percent (1%) per month late payment charge will be applied to outstanding charges unpaid 20 days after the date of billing.

## PARALLEL GENERATION - ENERGY PURCHASE SERVICE-NEGOTIATED

Effective In All territories served by the Company.

Availability Available to any retail electric customer with generation certified as a “qualifying facility” under Part 292 of the Federal Energy Regulatory Commission’s regulations under the Public Utility Regulatory Policies Act of 1978, rated 20,000 kW or less for purpose of operating generation interconnected with Company's system, where customer's delivery is purchased by Company. Customers with generating capacity of 5,000 kW or less have the option of selling energy to the Company under this Pg-2C tariff or the Pg-2B (LMP) tariff.

Negotiated Rates Company and prospective parallel generation customers are required to adhere to the interconnection rules and guidelines set out in PSC 119. Notwithstanding those guidelines, parallel generation customers have the right to request negotiated buy back rates. The following are the required procedural guidelines for negotiation of buy back rates to apply to customer’s generation output.

1. Except as allowed by Paragraph 3 below, the Company must respond to the customer within 30 days of initial receipt of the customer’s written proposal, and within 30 days of receipt of any customer’s subsequent written proposal.
2. Company’s response may either accept or reject customer’s proposal. Company’s rejection of customer’s proposal must be accompanied by a counter offer relating to the specifics of the customer’s written proposal; except
3. If Company is unable to respond to the customer’s written proposal within 30 days it shall inform the customer of:
  - a. Specific information needed to evaluate the customer owned generation system proposal.
  - b. The precise difficulty encountered in evaluating the customer owned generating system written proposal.
  - c. The estimated date that the company will repond to the customer’s written proposal.
4. The commission may become involved in the Company and Customer negotiations upon a showing by either the Company or the Customer that a reasonable conclusion cannot be reached under the above guidelines. The commission may provide a waiver to the guidelines and order new negotiation requirements so that a reasonable conclusion can be reached.

Customer Charge

\$ 13.80/mo.

Renewable Premium: At the Company’s sole discretion, a premium to be paid on a per kWh basis maybe applied to generators that generate a renewable credit that is transferred to the Company. Customers retain the right to refuse a renewable premium and keep the renewable credits or tags. Premiums could be set when the contract is signed.

Terms and Conditions of Service: See Schedule PG-3.

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ISSUED: December 23, 2011

EFFECTIVE: For service rendered on and after January 1, 2012.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-117 dated December 22, 2011.

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**PARALLEL GENERATION – SELF SUPPLY SERVICE**

Effective In All territories served by the Company.

Availability Available to any retail metered electric customer with customer owned generation for the purpose of operating generation interconnected with Company's system, where customer's delivery offsets retail electric consumption at the same site and will under normal operating conditions not deliver any excess generation produced by the Customer's facility to the Company at any time.

Excess Generation Any inadvertent flow of energy from the customer's generation facility to the Company shall be supplied by the customer without charge to the Company.

Standby Service Customers with self supply generation may also be required to obtain standby service under Schedule Pg-4, pursuant to the terms of Schedule Pg-4.

Terms and Conditions of Service

1. The customer's generation facility must be connected in parallel with the Company's system and have protective equipment installed to prevent the flow of electricity onto the Company's system.
2. The customer's generation facility must comply with Schedules PG-3 and PGX.

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## **PARALLEL GENERATION - TERMS AND CONDITIONS OF SERVICE**

### Terms and Conditions of Service

1. The Company shall install appropriate metering facilities to record all flows of energy necessary to bill in accordance with the charges and credits of this rate schedule.
2. The Customer shall furnish, install and wire the necessary service entrance equipment, meter sockets, meter enclosure cabinets, or meter connection cabinets that may be required by the Company to properly meter usage and sales to the Company.
3. Company shall install the necessary facilities and equipment to accommodate Customer's generation output associated with this service. At the Customer's option, either the Company or Customer will bear the installation cost. However, if installation is made at Company's expense, Customer must reimburse the Company the full installed cost, including any financing costs, over a period not to exceed two years.
4. To interconnect, Customer's generation must be installed, connected and operated in compliance with existing codes and Company's PARALLEL GENERATION – GENERAL RULES as shown in Schedules PGX-1 to PGX-1.2, which were established in accordance with Docket No. 01-AC-48, and the rules provided in PSC-119. R  
R  
R
5. Customer must maintain and provide certification either of financial responsibility in accordance with PSC-119 covering the operation of Customer's generation equipment and its output. R

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ISSUED: December 23, 2011

EFFECTIVE: For service rendered on and after January 1, 2012.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-117 dated December 22, 2011.

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## PARALLEL GENERATION - GENERAL RULES

### General Rules for Parallel Generation

The following rules shall apply to all customer-owned generation facilities that are interconnected with NSP's power supply system. The extent to which a customer's facilities may be required to comply with these rules may vary from installation to installation due to the type, location, and size of the generating facility to be installed.

1. All distributed generation facilities with a capacity of 15 MW or less that are interconnected with, or that seek interconnection with, the Company's electric system must comply with the requirements and procedures set forth in Wis. Admin. Code ch. PSC 119.
2. Interconnection of a customer-owned electric generating installation with NSP's power system shall not be permitted until proper application has been made to and approval received from NSP. NSP may withhold approval only for good reason, such as failure to comply with applicable utility engineering and design limitations, or governmental codes, rules or laws. NSP approval of the proposed or installed customer-owned generation system does not relieve the customer of the obligation to obtain all required permits, building and zoning variations, and applicable inspections.
3. NSP shall require the customer to execute a contract which will specify reasonable technical connection and operating requirements for the customer's generating facility. Interconnection shall not be permitted until such a contract has been executed and NSP has inspected the installation. The customer shall notify NSP at least two months prior to commencement of operation of its generating facility.
4. NSP may require a separate distribution transformer(s) for a customer owning an electric generating facility. The customer shall be responsible for all costs associated with providing the separate transformer(s). Ordinarily, a customer utilizing an induction-type generator with a capacity of 5 kW or less, or other generating units of 10 kW or less that utilize line commutated inverters will not be required to satisfy this requirement.
5. Where necessary to protect against a customer-owned generating facility causing problems with service to other customers, NSP shall limit the capacity and operating characteristics of single-phase generators in a manner consistent with its existing limitation for single-phase motors. Ordinarily, single-phase generators should be limited to a capacity of 10kW or less.
6. The customer-owned electric generation facility shall have a protective system for automatically isolating the generator from NSP's system under the following conditions:
  - a. de-energized NSP system
  - b. sustained line faults on NSP system
  - c. faults on customer's system

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N

(continued)

**PARALLEL GENERATION - GENERAL RULES (contd)**

For synchronous and induction generators, such a protective system shall consist of proper over-current protection, fuse or circuit breaker, plus a voltage or frequency controlled contractor which would automatically disconnect the unit whenever its output voltage or frequency drifted outside predetermined limits. Other suitable protective systems against abnormal voltages or frequencies may be accepted by NSP. Schematic diagrams and a listing of the equipment intended to provide this protection or isolation may be requested by NSP and shall be supplied by the customer.

7. The customer shall provide and install a NEMA-approved manual safety disconnect switch of adequate ampacity between each of its generators and NSP's system. The switch shall not open the neutral when the switch is open and shall have provisions for being padlocked in the open position with a standard NSP padlock. For installations interconnected at greater than 600 volts, a fused cutout or switch may be substituted where practicable. The switch(es) shall be accessible at all times to NSP personnel for the purpose of isolating the generating facility from NSP's system when deemed necessary for safety and operating reasons and for any of the following reasons:
  - a. To facilitate maintenance or repair of NSP facilities;
  - b. During system emergencies;
  - c. At such times as the customer's generating facility is operating in a hazardous manner, or is operating such that it adversely affects service to other customers or to nearby communication systems or circuits.
  
8. The customer shall be required to make its equipment available and permit entry upon the property by NSP, cable television, and telephone utility personnel at reasonable times for the purposes of testing isolation and protective equipment, evaluating the quality of power delivered to NSP's system, and testing to determine whether the local generating facility is the source of any electrical service or communication system's problems. Such testing and evaluation shall not relieve the customer's obligation to maintain his facilities in satisfactory operating condition.
  
9. The power output of the customer's generating facility shall be maintained such that the frequency and voltage are compatible with normal NSP service and not cause NSP's service to fall outside the limits prescribed by the rules of the Public Service commission of Wisconsin (PSCW) or other standard limitations. If these conditions are not met, customer shall discontinue operation immediately.
  
10. The customer's generating facility shall be operated so that variations from acceptable voltage levels and other service impairing disturbances do not result in adverse effects on the service or equipment of other customers, and in a manner which does not produce undesirable levels of harmonics in NSP's power supply or control circuitry.

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**PARALLEL GENERATION - GENERAL RULES (contd)**

11. The customer shall be responsible for providing protection for its installed equipment and for adhering to all applicable national, state and local codes. In certain circumstances, where the design and configuration of certain generating equipment (such as that utilizing line-commutated inverters) make it appropriate, NSP may require the customer to install an isolation transformer as part of the generating installation for safety and for protection of the generating facilities.
12. Unless otherwise agreed to by NSP, customers with facilities of 21 kW of capacity or more shall provide the capacitive reactance required by their generating and conversion equipment to maintain an average Power Factor of 90% or greater, or shall compensate NSP for the necessary corrective equipment installed by NSP.
13. Unless otherwise agreed to by NSP, customers with facilities of 250 kW of capacity or more will be required to have a production meter and telemetry. N  
N
14. Customer shall locate and install towers and other equipment necessary for the operation of its generation facilities so as not to cause a hazard to the NSP distribution system, and to comply with all applicable national, state and local codes or ordinances.
15. Customer shall effectively ground, and provide and install adequate surge arrestor protection on his generation installation to prevent lightning damage to any NSP distribution system equipment.
16. Customer shall maintain its generating facility in accordance with sound utility practices. If requested by NSP, the customer shall submit for NSP approval a maintenance schedule prior to October 1 of each year, for the future calendar year.
17. The customer shall reimburse NSP in advance of construction for the addition, modification, or replacement of distribution system components made necessary by customer's generator installation.
18. Each party shall indemnify, protect, defend, and save harmless the other party from and against any and all claims and demands, including claims and demands of third parties, for damages, remote as well as proximate, to property and injury or death to persons, including payments made under any worker's compensation law or under any plan for employees' disability and death benefits, caused by or resulting from the negligent acts or omissions of the indemnifying party, its employees, agents, contractors, or subcontractors during the erection, maintenance, operation or removal of the generator or the associated facilities and equipment.
19. Customer has the right to appeal to the Public Service Commission of Wisconsin if the customer considers any requirement of NSP's contract and/or General Rules for Parallel Generation to be excessive or unreasonable.

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ISSUED: December 26, 2017

EFFECTIVE: For service rendered on and after January 1, 2018

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-123, dated December 21, 2017

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**STANDBY, MAINTENANCE AND SUPPLEMENTAL SERVICES RIDER**

Standby, Maintenance and Supplemental Services Rider

Availability These services are available to all Experimental General Time-of-Day, General Time-of-Day, and Large General Time-of-Day customers with generation interconnected to Company's system. Such interconnection must be in accordance with Company's General Rules for Parallel Generation.

Standby Service The purpose of standby service is for Company to serve customer's load during unscheduled outages of customer's generation. Company will provide standby generation service under which customer and Company have established a contracted amount of standby capacity.

Standby service is required for customers using Company facilities to stand by customer's generation system interconnected with and operating in parallel with Company's system.

All of customer's demand and energy usage will be billed according to the customer's retail electric tariff, except that power factor associated with purchases made by Parallel Generation, Schedule Pg-2, customers shall be determined using the maximum 15-minute integrated demand for the month and the corresponding power factor at that time.

Maintenance Service Customer may contract with Company for maintenance service to be provided by Company for an agreed-to or established customer maintenance outage. Customer shall be provided maintenance service in which the applicable retail monthly on-peak demand charge is based upon the on-peak demand rate and the on-peak demand for power provided during the maintenance period, and is prorated each maintenance month. The proration fraction is equal to the number of on-peak days maintenance service is provided, divided by the total number of on-peak days in the month. Customer's energy usage during maintenance periods will be billed on the applicable retail electric rate, except that power factor associated with purchases made by Parallel Generation, Schedule Pg-2, customers shall be determined using the maximum 15-minute integrated demand for the month and the corresponding power factor at that time. Under this service, customer's demand for power will be included in determination of "Customer demand charge" according to the customer's retail electric tariff.

Supplemental Service The company will provide service to supplement the output of the customer's generation.- Such service is normally available at times when either standby or maintenance services are not required and will normally be based upon the customer's retail electric service rate, except that power factor associated with purchases made by Parallel Generation, Schedule Pg-2, customers shall be determined using the maximum 15-minute integrated demand for the month and the corresponding power factor at that time. Upon request, adjustments for any extraordinary operating characteristics of the customer's generation and load will be considered.

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ISSUED: January 15, 1991

EFFECTIVE: For service rendered on and after January 17, 1991

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-104 dated January 15, 1991

## WHEELING SERVICE RIDER

1. In the general course of business, wheeling service for customer-owned generation system (COGS) is voluntary for the Company. Upon request and where practical, the Company will consider wheeling for COGS connected to the Company's distribution or transmission system for delivery to another utility connected to the Company's transmission system.
2. Providing that transmission and distribution capacity is available as determined by the Company, wheeling will be at a rate negotiated based upon the revenue requirements for the transmission and distribution facilities used in wheeling power, the nature and degree of facilities usage, and any other impacts upon both the Company and customers in supplying the wheeling service.
3. If capacity is not available as determined by the Company, wheeling will not be considered unless preliminary studies show the additional transmission investment required is supported by wheeling customer revenues. If the preliminary study shows it is practical, studies will be conducted to determine required additions and cost.
4. The wheeling customer will be required to supply Company with power and energy associated with the wheeling line losses.
5. The wheeling customer shall provide NSP with its generation schedule no later than the hour of 1500 local time on the day prior to the start of the scheduled day and be capable of reasonably adhering to the schedule. Deviations from the schedule shall be reviewed at the end of each billing period for all Company additional cost due to the deviations. Telemetering of the COGS to Company's control center shall be installed for all installations of 10 MW and above.
6. All wheeling agreements are subject to approval by appropriate regulatory bodies.

### Energy Cost Adjustment Clause

A one-time cost of fuel adjustment credit factor of (\$0.02009) per kilowatt-hour shall be applied to the following rate schedules from September 1, 2017 through September 30, 2017: R  
R

Rg-1	Rg-2	
Fg-1		R R

A one-time cost of fuel adjustment credit factor of (\$0.01728) per kilowatt-hour shall be applied to the following rate schedules from September 1, 2017 through September 30, 2017: R  
R

Cg-1	Cg-2	
Cg-6	Cg-7	R R
Cp-3		R

A one-time cost of fuel adjustment credit factor of (\$0.01714) per kilowatt-hour shall be applied to the following rate schedules from September 1, 2017 through September 30, 2017: R  
R

Cg-9	Cp-1	
RTP-1		R R

A one-time cost of fuel adjustment credit factor of (\$0.01800) per kilowatt-hour shall be applied to the following rate schedules from September 1, 2017 through September 30, 2017: N  
N

S-1	Ms-4.1	
Ms-2	Ms-4.2	N
Ms-3	Ms-6	N
Ms-3.1	Ms-7	N
Ms-4		N

A one-time cost of fuel adjustment credit factor of (\$0.02098) per kilowatt-hour shall be applied to the following rate schedules from September 1, 2017 through September 30, 2017: N  
N

Mp-1		N
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## 2017 Tax Cut Credit

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Effective In All territories Served by The Company.

Availability. Applicable to all customers in the tariffs listed below.

Income tax credit: Pursuant to the order issued in Docket No. 5-AF-101, the income tax credits are associated with the over collection of federal income tax expense in the base revenue requirement set in NSPW's last rate case Docket No. 4220-UR-123. The credits will be listed as a separate line item on the customers' bill.

The following credits will be applied to all bills for the July 2018 billing period.

Class	Rate Schedule	Credit	Unit
Residential	Rg-1, Rg-2, Fg-1	\$22.63	Per meter
Small Commercial	Cg-1, Cg-2, Mp-1	\$24.03	Per meter
Medium Commercial	Cg-7, Cp-3	\$313.17	Per meter
Large General TOD	Cg-9, Cp-1	\$3,527.89	Per meter
Real Time Pricing	RTP-1	\$31,092.11	Per meter
Lighting	S-1, Ms-2, Ms-3, Ms-4, Ms-6	\$3.53	Per fixture
Lighting	Ms-7	\$3.53	Per meter

The following credits will be in effect for service beginning July 1, 2018 until superseded by a future rate case order.

Class	Rate Schedule	Credit	Unit
Residential	Rg-1, Rg-2, Fg-1, Cg-6	\$0.00527	Per kWh
Small Commercial	Cg-1, Cg-2, Mp-1, Cg-6	\$0.00437	Per kWh
Medium Commercial	Cg-7, Cp-3	\$0.00464	Per kWh
Large General TOD	Cg-9, Cp-1	\$0.00270	Per kWh
Real Time Pricing	RTP-1	\$0.00167	Per kWh
Lighting	S-1, Ms-2, Ms-3, Ms-4, Ms-6, Ms-7	\$0.01164	Per kWh

N

ISSUED: June 5, 2018

EFFECTIVE: For service rendered on and after July 1, 2018.

PSCW AUTHORIZATION: Order in Docket No. 5-AF-101 dated May 24, 2018.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 4

SHEET NO. E 65

SCHEDULE W-1

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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FIRM POWER SALE FOR RESALE SERVICE (cancelled)

R

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D

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 1

SHEET NO. E 65.1

SCHEDULE RSS

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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RESALE SAVER SWITCH RIDER (cancelled)

R

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D

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 1

SHEET NO. E 65.2

SCHEDULE RSS

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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RESALE SAVER SWITCH RIDER (cancelled)

R

(This sheet is left blank and reserved for future use.)

D

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.



# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 3

SHEET NO. E 67.5

SCHEDULE CPD

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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CONTROL PERIOD DEMAND RIDER (cancelled)

R

(This sheet is left blank and reserved for future use.)

D

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 3

SHEET NO. E 67.6

SCHEDULE CPD

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

---

CONTROL PERIOD DEMAND RIDER (cancelled)

R

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D

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 3

SHEET NO. E 67.7

SCHEDULE CPD

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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CONTROL PERIOD DEMAND RIDER (cancelled)

R

(This sheet is left blank and reserved for future use.)

D

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 3

SHEET NO. E 67.8

SCHEDULE CPD

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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CONTROL PERIOD DEMAND RIDER (cancelled)

R

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ISSUED: December 27, 2012

EFFECTIVE: For service rendered on and after January 1, 2013.

PSCW AUTHORIZATION: Order in Docket No. 4220-UR-118 dated December 27, 2012.

# NSP

**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

REVISION: 4

SHEET NO. E 68

SCHEDULE W-FC

WISCONSIN ELECTRIC RATE BOOK

VOLUME NO. 7

AMENDMENT NO. 737

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SALES FOR RESALE – FUEL CLAUSE – Schedule W-FC (cancelled)

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ISSUED: December 27, 2012

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**NORTHERN STATES  
POWER COMPANY  
WISCONSIN**

WISCONSIN ELECTRIC RATE BOOK

REVISION: 1

SHEET NO. E 68.1

SCHEDULE W-FC

VOLUME NO. 7

AMENDMENT NO. 737

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RESALE SERVICE – FUEL CLAUSE (cancelled)

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