

CUSTOMER GENERATING SYSTEMS – NET METERING PROGRAM
20kW OR LESS RATE - CGS Category I
(Continued from Sheet No. D-44.00)

The requirements for interconnecting a generator with the Company's facilities are contained in the Michigan Public Service Commission's Electric Interconnection and Net Metering Standards Rules (R 460.601a-460.656) and the Company's Michigan Electric Utility Generator Interconnection Requirements, copies of which will be provided to customers upon request. Customers shall be provided a copy of the Company's Generator Interconnection Application and Net Metering Application and shall be required to complete both applications and submit them with all applicable application fees for review and approval prior to interconnection of their generators to the Company's facilities. The Company's interconnection application fee is \$75 and net metering application fee is \$25. All requirements of the MPSC's Electric Interconnection and Net Metering Standards and the Company's Net Metering Program must be met prior to commencing Net Metering service.

A customer who is enrolled in the Net Metering Program will continue to take electric service under the Company's applicable service tariff.

Metering:

The Company may determine the customer's net usage using the customer's existing meter if it is capable of reverse registration or may, at the Company's expense, install a single meter with separate registers measuring power flow in each direction. If the Company uses the customer's existing meter, the Company shall test and calibrate the meter to assure accuracy in both directions. If the customer's meter is not capable of reverse registration and if meter upgrades or modifications are required, the Company shall provide a meter or meters capable of measuring the flow of energy in both directions to the customer at cost. Only the incremental cost above that for meter(s) provided by the Company to similarly situated non-generating customers shall be paid by the eligible customer. A generator meter will be supplied to the customer, at the customer's request, at cost.

Rate:

Monthly Charges:

Customers enrolled in the Net Metering Program with a system capable of generating 20 kW or less qualify for true net metering billings or credits under the program. The customer shall pay the Distribution Charges and Power Supply Charges associated with the standard service tariff applicable to the customer when the customer's monthly net usage results in a net flow of energy from the Company to the customer. When the customer's monthly net usage results in a net flow of energy from the customer to the Company, the customer shall be credited for the energy provided to the Company at full retail rate from the applicable service tariff.

Standby charges shall not be applied to customers with systems capable of generating 20 kW or less.

For customers who qualify for true net metering under the Net Metering Program, the credit for any excess generation, as determined by each month's meter reading, shall be credited against the following month's bill. Any credit carried forward to the following month that is not used up that month shall be carried forward for use in subsequent billing periods. If a customer terminates service with the Company while having a net metering credit amount on the customer's account, the Company shall refund the remaining credit amount to the customer following a final reading by the Company of the customer's net meter.

Renewable Energy Surcharge: *Subject to the Renewable Energy Surcharge shown on Sheet No. D-5.03 only when a net purchaser from the Company.*

Energy Optimization Surcharge: *Subject to the Energy Optimization Surcharge shown on Sheet No. D-5.01 only when a net purchaser from the Company.*

Subject to power supply cost recovery factor. See Sheet No. D-3.00

**CUSTOMER GENERATING SYSTEMS – MODIFIED NET METERING PROGRAM
OVER 20kW-150kW – RATE CGS Category 2**

Availability:

Available to retail customers taking full requirements service with renewable electric generation facilities that are interconnected with the Company's power supply and rated at greater than 20 kW and not more than 150 kW, where customer's delivery offsets retail electric power supply at the same site. If a customer has more than one electric generator, the generator's rating(s) shall be summed and the sum may not exceed 150 kW.

The Company's Net Metering Program is available on a first come, first served basis until the nameplate capacity of all participating generators is equal to the maximum program limit of 1% of the Company's previous year's peak demand measured in kW for the Company's retail load, allocated to include no more than 0.25% for customers generating at greater than 20 kW and not more than 150 kW.

Hours of Service: *Twenty-four.*

Character of Service:

Alternating current, 60 Hertz, single-phase (with Company approval) or three-phase at any Company standard voltage available at the customer-owned generating system site.

Rate:

Distribution Charges:

A customer enrolled in the Modified Net Metering Program shall pay the Distribution Charges at the Company's standard service tariff applicable to the customer for the customer's total consumption of energy from the Company.

Power Supply Charges:

A customer enrolled in the Modified Net Metering Program shall pay the Power Supply Charges associated with the Company's standard service tariff applicable to the customer.

Energy Charges:

Charges that are related to a \$/kWh charge will be charged when the customer's net usage results in a monthly net flow of energy from the Company to the customer. When the customer's monthly net usage results in a net flow of energy from the customer to the Company, the customer's \$/kWh charges shall be credited based on the Excess Generation rate below.

Demand Charges:

The customer shall pay the demand charge associated with the Company's standard service tariff applicable to the customer for the customer's total consumption of energy from the Company.

Excess Generation:

Excess generation shall be credited at the customer's applicable standard tariff's power supply service energy charges (\$/kWh). The credit shall appear on the customer's next bill. Any credit not used to offset current charges shall be carried forward for use in subsequent billing periods.

The Company may determine the customer's usage using the customer's existing meter if it has separate registers measuring power flow in each direction. If the Company uses the customer's existing meter, the Company shall test and calibrate the meter to assure accuracy in both directions. If the customer's meter is not capable of measuring power flow in both directions, and if meter upgrades or modifications are required, the Company shall provide a meter or meters capable of measuring the flow of energy in both directions to the customer at cost. Only the incremental cost above that for meter(s) provided by the Company to similarly situated non-generating customers shall be paid by the eligible customer. Generator meters will be provided by the Company. The cost of the generator meter shall be considered a cost of operating the Net Metering Program.

(Continued on Sheet No. D-47.00)

Issued **November 10, 2009**
R.A. Draba
Vice-President,
Milwaukee, Wisconsin

Effective for **bills** rendered on and
after **November 13, 2009**

Issued under authority of the
Michigan Public Service Commission
dated **May 26, 2009**
in Case No. **U-15787**

**CUSTOMER GENERATING SYSTEMS – MODIFIED NET METERING PROGRAM
OVER 20kW-150kW – RATE CGS Category 2
(Continued from Sheet No. D-46.00)**

Costs and Fees:

The Company's Modified Net Metering Program has the following fees and costs:

<i>Application fee</i>	<i>\$25</i>
<i>Interconnection application fee</i>	<i>\$75</i>
<i>Engineering Review</i>	<i>\$0</i>
<i>Distribution Study</i>	<i>Actual Costs or Maximum Approved by the Commission</i>
<i>Distribution Upgrades</i>	<i>Actual Costs or Maximum Approved by the Commission</i>
<i>Company Testing and Inspection fee</i>	<i>\$0</i>
<i>All Interconnection Costs</i>	<i>Actual Costs or Maximum Approved by the Commission</i>

Conditions of Purchase:

1. *A renewable energy resource comes from the sun or from thermal inertia of the earth and minimizes the output of toxic material in the conversion of the energy and includes, but is not limited to, all of the following:*
 - a. *Biomass*
 - b. *Solar and solar thermal energy*
 - c. *Wind energy*
 - d. *Kinetic energy of moving water, including the following:*
 - i. *Waves, tides or currents*
 - ii. *Water released through a dam*
 - e. *Geothermal energy*
 - f. *Municipal solid waste*
 - g. *Landfill gas produced by municipal solid waste.*
2. *The generation equipment must be located on the customer's premises, serving only the customer's premises, and must be intended primarily to offset a portion or all of the customer's requirements for electricity.*
3. *At the customer's option, the customer's electric needs shall be determined by one of the following methods:*
 - a. *The customer's annual energy usage, measured in kWh, during the previous 12-month period.*
 - b. *When metered demand is available, the maximum integrated hourly demand measured in kW during the previous 12-month period.*
 - c. *In instances where complete and correct data is not available or where the customer is making changes on-site that will affect total usage, the Company and the customer shall mutually agree on a method to determine the customer's electric needs.*
4. *At the customer's option, the generation capacity shall be determined by one of the following methods:*
 - a. *Aggregate nameplate capacity of the generator(s).*
 - b. *An estimate of the expected annual kWh output of the generator(s).*

Customers shall not be allowed to switch their generation back and forth between two or more rate schedules to circumvent the intent of the rate design.

5. *A customer using biomass blended with fossil-fuel as a renewable energy source must submit proof to the Company substantiating the percentage of the fossil fuel blend either by (1) separately metering the fossil fuel, or (2) providing other documentation that will allow the Company to correctly apply a generation credit to the output associated with the customer's renewable fuel only.*
6. *If a customer has more than one generator, the generator's ratings shall be summed. This sum shall be greater than 20 kW and not more than 150 kW.*

(Continued on Sheet No. D-48.00)

***CUSTOMER GENERATING SYSTEMS – MODIFIED NET METERING PROGRAM
OVER 20kW-150kW – RATE CGS Category 2
(Continued from Sheet No. D-47.00)***

7. *The customer is required to provide the Company with a capacity rating in kW of the generating unit and a projected monthly and annual kWh output of the generating unit when completing the Company's Net Metering Application.*

8. *The requirements for interconnecting a generator with the Company's facilities are contained in the Michigan Public Service Commission's Electric Interconnection and Net Metering Standards Rules (R460.601 – 460.656) and the Company's Michigan Utility Generator Interconnection Requirements, copies of which will be provided to customers upon request. All requirements must be met prior to commencing service.*

Issued *November 10, 2009*
R.A. Draba
Vice-President,
Milwaukee, Wisconsin

Effective for *bills* rendered on and
after *November 13, 2009*

Issued under authority of the
Michigan Public Service Commission
dated *May 26, 2009*
in Case No. *U-15787*

CUSTOMER GENERATING SYSTEMS OVER 150 kW RATE CGS Large

Availability:

To customers owning generating systems, with an aggregate rating in excess of 150 kW, who desire to sell electric energy to the Company. For the purposes of this schedule, “customer” is defined as the person or corporate entity who desires to sell electric energy to the Company.

The Company may deny availability of this rate if the Company finds that the customer causes fluctuations on the distribution system so as to impair general reliability of service.

Hours of Service: Twenty-four.

Character of Service:

Alternating current, 60 Hertz, single-phase (with Company approval) or three-phase at any Company standard voltage available at the customer-owned generating system site.

Rate:

Facilities Charge:

Non-demand metered customers \$1.25 per month
Demand metered customers \$3.50 per month

<u>Payment per kWh</u>	<u>Less than 601 Volts</u>	<u>601 Volts to <69kV</u>	<u>69kV and above</u>
During on-peak period (a)	\$0.0464	\$0.0454	\$0.0430
During off-peak period (b)	\$0.0193	\$0.0188	\$0.0180

- (a) The on-peak period payment will apply to those kWhs delivered to the Company during the time period specified in the customer’s time-of-use rate schedule that corresponds to the customer’s class of service applicable when the customer buys from the Company.

The on-peaks periods occur Monday through Friday, excluding those days designated as legal holidays for New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

- (b) The off-peak period payment will apply to those kWhs delivered to the Company during all hours other than on-peak hours.

Customers not served on a time-of-use rate schedule or not purchasing energy from the Company will be assigned a peak period of 9am to 9pm.

Minimum Charge: The monthly minimum charge is the facilities charge.

Conditions of Purchase: See Sheet Nos. D-48.02 – D-48.03.

(Continued on Sheet No. D-48.02)

Issued November 10, 2009
R.A. Draba
Vice-President,
Milwaukee, Wisconsin

Effective for bills rendered on and
after November 13, 2009

Issued under authority of the
Michigan Public Service Commission
dated May 26, 2009
in Case No. U-15787

CUSTOMER GENERATING SYSTEMS OVER 150 kW RATE CGS Large

(Continued from Sheet No. D-48.01)

Conditions of Purchase:

1. A customer operating electric generating equipment shall not connect it in parallel with the Company's electric system unless the customer has entered into a standard Distributed Generation Interconnection Agreement with the Company and the customer has provided, at customer's expense, protective and synchronizing equipment satisfactory to the Company.
2. The customer must comply with the various applicable national, state and local electrical codes, rules and regulations; the electric service rules and regulations of the Company; and the requirements of the Michigan Public Service Commission Electric Interconnection Standards R 460.481 through R 460.489. The Company may request proof of such compliance prior to initiation of service. Proof of such compliance consists of a municipal inspection certificate, or in locations where there is not municipal inspection, an affidavit furnished by the contractor or other person doing the work.
3. The customer shall operate its electric generating equipment in such a manner so as not to unduly affect the Company's voltage waveform. The Company, at its sole discretion, will determine whether the customer's generating equipment satisfies this criteria.
4. The customer shall permit the Company, at any time as it deems necessary, to install or modify any equipment, facility or apparatus to protect the safety of its employees or the accuracy of its metering equipment as a result of the operation of the customer's equipment. The customer shall reimburse the Company for the cost of such installation or modification upon receipt of a statement from the Company.
5. The customer shall permit Company employees to enter upon the customer's property at any reasonable time for the purpose of inspecting and/or testing the customer's equipment, facilities or apparatus to ensure their continued safe operation and the accuracy of the Company's metering equipment but such inspections shall not relieve the customer from its obligation to maintain the facilities in satisfactory operating condition.
6. Each of the parties shall indemnify and hold harmless the other party against any and all liability for injuries or damages to person or property caused, without the negligence of such other party, by the operation and maintenance by the parties of their respective electric equipment, lines and other facilities.
7. The customer may simultaneously purchase energy from and sell energy to the Company.
8. The customer is obligated to pay all costs to interconnect its generation facility to the Company's electric system. Interconnection costs include, but are not limited to, those specified in the Michigan Public Service Commission Electric Interconnection Standards, as well as transformer costs, line extension and upgrade costs, metering costs and the cost of a second meter if an additional meter is required.
9. A customer whose aggregate electric generating capacity is rated above 150 kW has the option of negotiating a facility-specific buy-back rate designed to meet the customer's needs and operating characteristics. The Company will respond to the customer's proposal for a negotiated rate within 30 days of receipt of such a proposal. If the Company is unable to respond to the customer's proposal within 30 days, the Company shall inform the customer of (a) specific information needed to evaluate the customer's proposal, (b) the precise difficulty encountered in evaluating the customer's proposal, and (c) the estimated date that the Company will respond. If the Company rejects the customer's proposal it will make a counter offer relating to the specific subject matter of the customer's proposal.
10. In order for a customer to sell energy to the Company, a Surplus Energy Agreement between the customer and the Company is required.

(Continued on Sheet No. D-48.03)

Issued November 10, 2009
R.A. Draba
Vice-President,
Milwaukee, Wisconsin

Effective for bills rendered on and
after November 13, 2009

Issued under authority of the
Michigan Public Service Commission
dated May 26, 2009
in Case No. U-15787

CUSTOMER GENERATING SYSTEMS OVER 150 kW RATE CGS Large

(Continued from Sheet No. D-48.02)

Conditions of Purchase (Cont'd):

- 11. The customer has the right to appeal to the Public Service Commission if it believes the contract for customer generating systems is unreasonable.***
- 12. Customers who wish to operate electric generation equipment in parallel with the Company's electric system, and are using the bulk of the energy produced for their own purposes, but who do not wish to be placed on this or any other purchase tariff, nonetheless shall abide by these Conditions of Purchase with the exception of Conditions of Purchase (7) and (9). In the case where the Company takes action to prevent the existing Company metering facilities from recording any flow of energy from the customer's generation facilities into the Company's electric system, the customer will receive no payment for any energy fed back into the Company's system.***
- 13. The customer may contract for supplementary, standby and maintenance electric service from the Company under the rate schedule corresponding to the customer's class of service. General primary and general secondary customers who contract for supplementary, standby and maintenance electric service will be served under the auxiliary service provisions of their respective Conditions of Delivery.***
- 14. For billing periods during which no energy was sold to the Company by a customer on Rate Schedule CGS1 and the customer's bill would reflect only the facilities charge, the billing of such charge may be deferred until the next billing period during which energy is sold. If six consecutive billing periods pass during which no energy is sold to the Company by the customer on Rate Schedule CGS1, or if such customer terminates service under this rate schedule, the Company may bill the customer for the deferred facilities charges.***

***Issued November 10, 2009
R.A. Draba
Vice-President,
Milwaukee, Wisconsin***

***Effective for bills rendered on and
after November 13, 2009***

***Issued under authority of the
Michigan Public Service Commission
dated May 26, 2009
in Case No. U-15787***

CUSTOMER GENERATING SYSTEMS – METHANE DIGESTORS - CGS Biogas

Availability:

Available to retail customers taking full requirements service with renewable electric generation facilities that are interconnected with the Company's power supply and rated at greater than 150 kW and not more than 550 kW, where customer's delivery offsets retail electric power supply at the same site. If a customer has more than one electric generator, the generator's rating(s) shall be summed and the sum may not exceed 550 kW.

The Company's Net Metering Program is available on a first come, first served basis until the nameplate capacity of all participating generators is equal to the maximum program limit of 1% of the Company's previous year's peak demand measured in kW for the Company's retail load, allocated to include no more than 0.25% for customers generating at greater than 150 kW and not more than 550 kW.

Hours of Service: Twenty-four.

Character of Service:

Alternating current, 60 Hertz, single-phase (with Company approval) or three-phase at any Company standard voltage available at the customer-owned generating system site.

Rate:

Distribution Charges:

A customer enrolled in this program shall pay the Distribution Charges at the Company's standard service tariff applicable to the customer for the customer's imputed consumption. Imputed consumption is the sum of the metered on-site generation and the net of the bidirectional flow of power across the customer interconnection during the billing period.

Power Supply Charges:

A customer enrolled in this program shall pay the Power Supply Charges associated with the Company's standard service tariff applicable to the customer.

Energy Charges:

Charges that are related to a \$/kWh charge will be charged when the customer's net usage results in a monthly net flow of energy from the Company to the customer. When the customer's monthly net usage results in a net flow of energy from the customer to the Company, the customer's \$/kWh charges shall be credited based on the Excess Generation rate below.

Demand Charges:

The customer shall pay the demand charges (\$/kW) associated with the Company's standard service tariff applicable to the customer for the customer's imputed consumption. Imputed consumption is the sum of the metered on-site generation and the net of the bidirectional flow of power across the customer interconnection during the billing period.

Excess Generation:

Excess generation shall be credited at the customer's applicable standard tariff's power supply service energy charges (\$/kWh). The credit shall appear on the customer's next bill. Any credit not used to offset current charges shall be carried forward for use in subsequent billing periods.

Metering

The Company will utilize a meter or meters capable of measuring the flow of energy in both directions and generator output. If the Company uses the customer's existing meter, the Company shall test and calibrate the meter to assure accuracy in both directions. If meter upgrades or modifications are required, the customer shall pay the costs incurred.

(Continued on Sheet No. D-48.05)

Issued November 10, 2009
R.A. Draba
Vice-President,
Milwaukee, Wisconsin

Effective for bills rendered on and
after November 13, 2009

Issued under authority of the
Michigan Public Service Commission
dated May 26, 2009
in Case No. U-15787

CUSTOMER GENERATING SYSTEMS – METHANE DIGESTORS - CGS Biogas
(Continued from Sheet No. D-48.04)

Costs and Fees

The Company's Modified Net Metering Program has the following fees and costs:

<i>Application fee:</i>	<i>\$25</i>
<i>Interconnection application fee:</i>	<i>\$75</i>
<i>Engineering Review:</i>	<i>\$0</i>
<i>Distribution Study:</i>	<i>Actual Costs or Maximum Approved by the Commission</i>
<i>Distribution Upgrades:</i>	<i>Actual Costs or Maximum Approved by the Commission</i>
<i>Company Testing and Inspection fee:</i>	<i>\$0</i>
<i>All Interconnection Costs:</i>	<i>Actual Costs or Maximum Approved by the Commission</i>

Conditions of Purchase:

1. *A renewable energy resource consisting of one or more methane digesters with an aggregate name plate capacity between 150 kW and 550 kW located on the customer's premises and metered at a single point of contact.*
2. *The generation equipment must be located on the customer's premises, serving only the customer's premises and must be intended primarily to offset a portion or all of the customer's requirements for electricity.*
3. *At the customer's option, the customer's electric needs shall be determined by one of the following methods:*
 - a. *The customer's annual energy usage, measured in kWh, during the previous 12-month period.*
 - b. *When metered demand is available, the maximum integrated hourly demand measured in kW during the previous 12-month period.*
 - c. *In instances where complete and correct data is not available or where the customer is making changes on-site that will affect total usage, the Company and the customer shall mutually agree on a method to determine the customer's electric needs.*
4. *At the customer's option, the generation capacity shall be determined by one of the following methods:*
 - a. *Aggregate nameplate capacity of the generator(s).*
 - b. *An estimate of the expected annual kWh output of the generator(s).*

Customers shall not be allowed to switch their generation back and forth between two or more rate schedules to circumvent the intent of the rate design.

5. *A customer using biomass blended with fossil-fuel as a renewable energy source must submit proof to the Company substantiating the percentage of the fossil fuel blend either by (1) separately metering the fossil fuel, or (2) providing other documentation that will allow the Company to correctly apply a generation credit to the output associated with the customer's renewable fuel only.*
6. *If a customer has more than one generator, the generator's ratings shall be summed. This sum shall be greater than 150 kW and not more than 550 kW.*
7. *The customer is required to provide the Company with a capacity rating in kW of the generating unit and a projected monthly and annual kWh output of the generating unit when completing the Company's Net Metering Application.*
8. *The requirements for interconnecting a generator with the Company's facilities are contained in the Michigan Public Service Commission's Electric Interconnection and Net Metering Standards Rules (R460.601 – 460.656) and the Company's Michigan Utility Generator Interconnection Requirements, copies of which will be provided to customers upon request. All requirements must be met prior to commencing service.*

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