



### GENERAL ELECTRIC SERVICE RATE NO. 3

**Availability** - This rate is available to any customer desiring secondary voltage service for any purpose when supplied at one Service Location through one meter. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service or standby service.

**Nature of Service** - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
<b>Basic Service Charge</b>	\$36.00	Per Service Location per month
<b>Commodity Charge</b>		
Summer Months of June through October	\$0.1478	Per kWh for all kWh
Winter Months of November through May	\$0.1439	Per kWh for all kWh

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Energy Waste Reduction Surcharge** - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Metering** - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



## LARGE GENERAL ELECTRIC SERVICE RATE NO. 4

**Availability** - This rate is available to any customer desiring secondary voltage for any purpose when the electrical requirements are supplied at one Service Location through one metering installation and the Maximum Demand is 15 kW or more. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service or standby service.

**Nature of Service** - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u><b>2/1/2020</b></u>
<b>Basic Service Charge</b>	\$200.00 Per Service Location per month
<b>Capacity Charge</b>	\$20.50 Per kW for all kW of Maximum Demand
<b>Commodity Charge</b>	
Summer Months of June through October	\$0.0717 Per kWh for all kWh
Winter Months of November through May	\$0.0672 Per kWh for all kWh
<b>Reactive Power Charge</b>	\$0.0106 Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Energy Waste Reduction Surcharge** - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Maximum Demand** - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, but the Capacity Charge shall never be less than 50% of the highest Maximum Demand of the preceding 11 billing months.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Metering** - Where the BWL elects to measure the service on the primary side of the transformer, the metered kW and kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**PRIMARY ELECTRIC SERVICE  
RATE NO. 5**

**Availability** - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 100 kW or more. This rate is not available for emergency service or standby service.

**Nature of Service** - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u><b>2/1/2020</b></u>	
<b>Basic Service Charge</b>	\$320.00	Per Service Location per month
<b>Capacity Charge</b>		
On-Peak Billing Demand	\$16.25	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$6.20	Per kW for all kW of Maximum Demand
<b>Commodity Charge</b>		
Summer Months of June through October	\$0.0678	Per kWh for all kWh during the On-Peak Period
	\$0.0634	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0654	Per kWh for all kWh during the On-Peak Period
	\$0.0634	Per kWh for all kWh during the Off-Peak Period
<b>Reactive Power Charge</b>	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Energy Waste Reduction Surcharge** - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.



**On-Peak Billing Demand** - The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the billing month, but the On-Peak Billing Demand charge shall never be less than 50% of the highest On-Peak Billing Demand of the preceding 11 billing months.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Maximum Demand** - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 50% of the highest Maximum Demand of the preceding 11 billing months.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Schedule of on-peak and off-peak periods** - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

**Multiple Service Location Aggregation** - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 100 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

**Metering** - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

**Equipment Supplied by Customer** - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



## MUNICIPAL WATER PUMPING ELECTRIC SERVICE RATE NO. 7

**Availability** - This rate is available to any political subdivision or agency of the State of Michigan desiring service for potable water pumping and associated potable water production equipment when the entire electrical requirements are supplied at one Service Location through one meter. This rate is not available for emergency service, standby service, or auxiliary service.

**Nature of Service** - The service is alternating current, 60 hertz, three phase. The secondary or primary voltage is determined by the BWL.

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>
Basic Service Charge	\$28.00 Per Service Location per month
Commodity Charge	\$0.1285 Per kWh for all kWh

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Metering** - For customers taking secondary voltage from the BWL and where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. For customers taking primary voltage from the BWL and where the BWL elects to measure the service on the secondary side of the transformers, the metered kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses.

Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



## LARGE CAPACITY ELECTRIC SERVICE RATE NO. 8

**Availability** - This rate is available to any customer desiring primary voltage service when: (a) the electrical requirements are supplied at one or more Service Locations as provided below for Multiple Service Location Aggregation; (b) where the total On-Peak Billing Demand is 25,000 kW or more; and (c) the customer agrees to a service contract with the BWL for the customer's full electrical service requirements at the applicable Service Locations for a period of not less than ten (10) years. This rate is not available for emergency service or standby service.

**Nature of Service** - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
<b>Basic Service Charge</b>	\$490.00	Per Service Location per month
<b>Capacity Charge</b>		
On-Peak Billing Demand	\$17.00	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$2.75	Per kW for all kW of Maximum Demand
<b>Commodity Charge</b>		
Summer Months of June through October	\$0.0745	Per kWh for all kWh during the On-Peak Period
	\$0.0689	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0729	Per kWh for all kWh during the On-Peak Period
	\$0.0689	Per kWh for all kWh during the Off-Peak Period
<b>Reactive Power Charge</b>	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Energy Waste Reduction Surcharge** - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**On-Peak Billing Demand:** The On-Peak Billing Demand shall be the total kW supplied to all applicable Service Locations during the 15-minute period of maximum use during the On-Peak Period during the month (See Multiple Service Location Aggregation).

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Maximum Demand:** The Maximum Demand for each Service Location shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Schedule of on-peak and off-peak periods** - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

**Multiple Service Location Aggregation** - The 15-minute period demands of multiple Service Locations of a customer shall be summed for determination of the total On-Peak Billing Demand if the Maximum Demand determined at each Service Location equals or exceeds 1,000 kW. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

**Metering** - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

**Equipment Supplied by Customer** - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



## OUTDOOR LIGHTING SERVICE RATE NO. 9

**Availability** - This rate is available to any customer located within the Board of Water and Light (BWL) service area for dusk to dawn lighting of a Service Location's premises. The BWL furnishes and maintains all lights. The installation will overhang private property from existing or new poles set at points accessible to BWL construction and maintenance equipment. This rate is not available for purposes of street, highway, or public thoroughfare lighting.

**Monthly Rate** - Shall be computed in accordance with the following charges:

<i>Luminaires on Overhead Mast Arm on existing BWL poles</i>	<i>2/1/2020</i>
<b>High Pressure Sodium<sup>1</sup></b>	
100 W	\$13.45
250 W	\$21.36
400 W	\$24.28
<b>Mercury Vapor<sup>2</sup></b>	
175 W	\$14.13
400 W	\$24.28
<b>LED End Mount</b>	
1-19 W	\$9.89
20-39 W	\$10.44
40-59 W	\$11.00
60-79 W	\$11.56
80-99 W	\$12.12
100-119 W	\$12.67
120-139 W	\$13.23
140-159 W	\$13.79
160-179 W	\$14.34
180-199 W	\$14.90
200-219 W	\$15.46
220-239 W	\$16.02
240-259 W	\$16.57
260-279 W	\$17.13
280-299 W	\$17.69
300-319 W	\$18.25
320-339 W	\$18.80
340-359 W	\$19.37
360-379 W	\$19.93
380-399 W	\$20.48

<sup>1</sup> Rates apply to existing luminaires and are subject to cost and availability for new business.

<sup>2</sup> Rates apply to existing luminaires only and are not open to new business.

<b>Floodlighting Luminaires on Bracket Arm on existing BWL poles</b>	<b>2/1/2020</b>
<b>High Pressure Sodium<sup>3</sup></b>	
100 W	\$17.89
250 W	\$24.07
400 W	\$28.23
<b>Metal Halide<sup>3</sup></b>	
400 W	\$35.08
1000 W	\$60.68
1500 W	\$84.20
<b>LED Flood</b>	
1-19 W	\$11.55
20-39 W	\$12.10
40-59 W	\$12.66
60-79 W	\$13.22
80-99 W	\$13.77
100-119 W	\$14.33
120-139 W	\$14.89
140-159 W	\$15.45
160-179 W	\$16.00
180-199 W	\$16.56
200-219 W	\$17.12
220-239 W	\$17.68
240-259 W	\$18.23
260-279 W	\$18.79
280-299 W	\$19.36
300-319 W	\$19.91
320-339 W	\$20.47
340-359 W	\$21.03
360-379 W	\$21.59
380-399 W	\$22.14

In the event additional facilities or rearrangement of existing facilities is required, the BWL shall install, operate and maintain such facilities for the following monthly charges.

<b>Type of Facilities</b>	<b>2/1/2020</b>
35-foot wood poles including span of overhead secondary extension	\$15.28 Per pole
37-foot concrete pole including span of overhead secondary extension	\$25.33 Per pole
Other facilities, hand set poles, or rearrangement of existing facilities	1.67% Of estimated cost

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

<sup>3</sup> Rates apply to existing luminaires and are subject to cost and availability for new business.

**Service Contract** - A written service agreement shall be entered into to take BWL service for a term of years determined as follows:

- a) One year, if additional facilities are not required, or
- b) Three years, if additional facilities are required
- c) Five years, for metal halide lamps or if monthly facilities charges are calculated at 1.67% of estimated cost,
- d) Ten years, if special contractual arrangements are made.

In the event the customer discontinues service before the end of the agreement term, the established rate for the remaining portion of the agreement shall immediately become due and payable. The BWL will replace lamps or make repairs when practicable after the customer has reported that the installation requires servicing. Such replacements and repairs will be made during regular working hours. The BWL may refuse or restrict the service provided in this rate to seasonal type customers and/or may require such customers to pay for the service annually in advance where the permanency of the customer is doubtful or has not been demonstrated by the customer. If relocation, including adjustment, of the outdoor protective light or relocation of other facilities used in connection with the light is desired by the customer during the term of the contract, the BWL will provide this service, if feasible, at the customer's expense.



## UNMETERED DEVICE SERVICE RATE NO. 11

**Availability** - This rate is available to the US Government, any political subdivision or agency of the State of Michigan, and any public or private school district for lamp installations maintained for traffic regulation or guidance, as distinguished from street illumination and police signal systems. This rate is also available to other Unmetered Devices, such as Community Antenna Television Service Companies (CATV), wireless access companies, or security camera companies for unmetered Power Supply Units. Where the BWL's total investment to serve an individual Service Location exceeds three times the annual revenue to be derived from such Service Location, a contribution to BWL shall be required for the excess.

**Nature of Service** - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u><b>2/1/2020</b></u>
<b>Basic Service Charge</b>	\$4.50 Per Service Location per month
<b>Commodity Charge</b>	\$0.0873 Per kWh for all kWh

The actual labor, material, miscellaneous and indirect charges experienced maintaining and relamping traffic signals during the preceding month.

**Determination of kWh** - Monthly kWh shall be determined by multiplying the total connected load in kW (including the lamps, ballasts, transformers, amplifiers, and control devices) times 730 hours.

The kWh for cyclical devices shall be 50% of the total kWh so calculated.

The kWh of continuous, non-intermittent devices shall be 100% of the total kWh so calculated.

The kWh of devices used for the control of school traffic, and operated not more than six hours per day during the school year only, shall be 10% of the continuous or cyclical kWh so calculated.

The kWh for CATV Power Supply Units shall be 50% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The kWh for Wireless Access and Security Camera Power Supply Units shall be 100% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The BWL may, at its option, install test meters for the purpose of determining the monthly kWh usage to be used for billing purposes.

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.



**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



## SPACE CONDITIONING AND ELECTRIC WATER HEATING SERVICE RATE NO. 12

**Availability** - This rate is available to any customer desiring service for commercial/industrial space conditioning and/or electric water heating furnished through a separate meter to which no other electrical device except electric space heating, electric air conditioning, humidity control equipment or electric water heating equipment may be connected. Electric space heating will be considered to include heating by light system provided the primary means of space heating at the time of maximum heating requirements will be furnished by the lighting system with the balance of the heating requirements furnished by supplementary electric heating equipment. This rate is not available to new applications for heat for light systems received after March 1, 1979. This rate is not applicable to the use of electricity for electric air conditioning unless the customer has permanently installed electric space heating equipment and uses it as the principal source of space heating, or to the use of electricity for occasional or seasonal substitute for another method of water heating. This rate is not available for emergency service or standby service.

**Nature of Service** - The service is alternating current, 60 hertz, single phase at Board of Water and Light (BWL) available secondary voltage. Three phase service will be furnished at BWL option. The secondary voltage is determined by the BWL.

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<b><u>2/1/2020</u></b>	
<b>Basic Service Charge</b>	\$45.00	Per Service Location per month
<b>Commodity Charge</b>		
Summer Months of June through October	\$0.1582	Per kWh for all kWh
Winter Months of November through May	\$0.1151	Per kWh for all kWh

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Energy Waste Reduction Surcharge** - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Metering** - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE  
BWL OWNED SYSTEMS  
RATE NO. 31**

**Availability** - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available. Luminaires may be installed with no limitations as to spacing between luminaires. Where an overhead line extension is required to serve one or more luminaires, the BWL will furnish 350 linear feet of line extension per luminaire served from such extension.

**Nature of Service** - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

**Annual Rate** - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	<b>2/1/2020</b>
<b>High Pressure Sodium Luminaire<sup>1</sup></b>	
70 W	\$112
100 W	\$127
150 W	\$148
250 W	\$180
400 W	\$229
1000 W	\$470
<b>Mercury Vapor Luminaire<sup>2</sup></b>	
100 W	\$118
175 W	\$144
250 W	\$170
400 W	\$218
1000 W	\$413
<b>Metal Halide Luminaire<sup>1</sup></b>	
175 W <sup>2</sup>	\$252
250 W <sup>2</sup>	\$288
400 W	\$290
1000 W	\$563
1500 W	\$864
<b>Induction Luminaire<sup>1</sup></b>	
85 W	\$118
165 W	\$145
<b>LED Decorative Luminaire</b>	
1-19 W	\$149
20-39 W	\$156
40-59 W	\$163
60-79 W	\$170

<sup>1</sup> Rates apply to existing luminaires and are subject to cost and availability for new business.

<sup>2</sup> Rates apply to existing luminaires only and are not open to new business.

80-99 W	\$177
100-119 W	\$185
120-139 W	\$191
140-159 W	\$199
160-179 W	\$206
180-199 W	\$214
200-219 W	\$220
220-239 W	\$227
240-259 W	\$235
260-279 W	\$241
280-299 W	\$249
300-319 W	\$256
320-339 W	\$263
340-359 W	\$270
360-379 W	\$278
380-399 W	\$284
<b>LED End Mount Luminaire</b>	
1-19 W	\$126
20-39 W	\$134
40-59 W	\$141
60-79 W	\$148
80-99 W	\$155
100-119 W	\$162
120-139 W	\$169
140-159 W	\$176
160-179 W	\$184
180-199 W	\$190
200-219 W	\$198
220-239 W	\$205
240-259 W	\$212
260-279 W	\$219
280-299 W	\$226
300-319 W	\$234
320-339 W	\$240
340-359 W	\$248
360-379 W	\$255
380-399 W	\$262
<b>LED Flood Luminaire</b>	
1-19 W	\$147
20-39 W	\$155
40-59 W	\$162
60-79 W	\$169
80-99 W	\$176
100-119 W	\$184
120-139 W	\$190
140-159 W	\$198
160-179 W	\$205
180-199 W	\$211
200-219 W	\$219
220-239 W	\$226
240-259 W	\$234
260-279 W	\$240
280-299 W	\$248
300-319 W	\$255

320-339 W	\$262
340-359 W	\$269
360-379 W	\$276
380-399 W	\$283

**Annual Rate (continued)**

Plus, an additional annual charge, depending on type of installation, of:

	<b>2/1/2020</b>
Wood Pole – Overhead Service	\$83
Wood Pole – Underground Service	\$129
Concrete Pole – Overhead Service	\$205
Concrete Pole – Underground Service	\$205
Post Top – Concrete	\$129
Historic – Single Top	\$427
Large Historic – Dual Top	\$855
Small Historic – Dual Top	\$719
Wall/Tunnel – 8760 Hours	\$180
Wall/Tunnel – 4200 Hours	\$110
Bollard	\$363

Note: Luminaires installed on existing poles will be charged only the applicable rate for the luminaire. None of the additional charges above will be applied.

**Customer Contribution** - The Annual Rates are based on fixtures normally stocked by the BWL, and installed utilizing normal construction techniques. The BWL may, at its option, upon customer request install a street lighting system not covered by the rates above. Such requests shall be subject to the terms and conditions of Electric Rate 31a.

**Unit Replacement** - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE  
BWL OWNED SYSTEMS  
RATE NO. 31a**

**Availability** - Available to any political subdivision or agency of the State of Michigan for non-standard BWL street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available.

**Nature of Service** - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

**Annual Rate** - The annual rate per luminaire with fixture and setting, payable in twelve monthly installments, shall consist of an annual energy charge and an annual facilities charge, as set forth below:

	<b><u>2/1/2020</u></b>
High Pressure Sodium Luminaire	\$0.69 per watt of rated energy usage
Metal Halide Luminaire	\$0.92 per watt of rated energy usage
LED Luminaire	\$0.50 per watt of rated energy usage

**Annual Facilities Charge** - The Annual Rate to recover the cost of luminaires, poles, attachments, and other equipment installed to provide service under this rate schedule, including the total facilities cost less any customer contributions, projected annual maintenance cost, and return on investment. The annual facilities charge for each luminaire and setting will be specified in the service contracts with each customer.

**Unit Replacement** - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE  
CUSTOMER OWNED SYSTEMS  
RATE NO. 32**

**Availability** - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system available. Effective March 1, 2011, this rate is not open to new business.

**Nature of Service** - The BWL will connect the customer's equipment to BWL lines, furnish the control equipment, supply the unmetered energy, control the burning hours of the lamps, provide normal replacement of luminaire refractors, control devices and lamps. The customer will furnish, install and own all equipment comprising the street lighting system, including, but not limited to the overhead wires or underground cables between luminaires and the supply circuits extending to the point of attachment with the BWL. All maintenance and replacement of the customer's equipment except normal lamp and glass replacement shall be paid by the customer. The BWL reserves the right to furnish service from either a series or multiple system or both.

**Annual Rate** - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	<b>2/1/2020</b>
<b>High Pressure Sodium Luminaire<sup>1</sup></b>	
70 W	\$55
100 W	\$66
150 W	\$85
250 W	\$112
400 W	\$161
1000 W	\$380
<b>Mercury Vapor Luminaire<sup>1</sup></b>	
175 W	\$77
250 W	\$102
400 W	\$147
1000 W	\$323
<b>Incandescent Luminaire<sup>1</sup></b>	
2500 L	\$106
4000 L	\$169
6000 L	\$206
<b>LED Luminaire</b>	
1-19 W	\$50
20-39 W	\$56
40-59 W	\$62
60-79 W	\$70
80-99 W	\$76
100-119 W	\$83
120-139 W	\$89
140-159 W	\$97
160-179 W	\$103

<sup>1</sup> Rates apply to existing luminaires only and are not open to new business.



180-199 W	\$110
200-219 W	\$116
220-239 W	\$124
240-259 W	\$130
260-279 W	\$136
280-299 W	\$143
300-319 W	\$150
320-339 W	\$157
340-359 W	\$163
360-379 W	\$170
380-399 W	\$177

**Maintenance Charge** - The actual labor, material, miscellaneous and indirect charges experienced maintaining street light units during the preceding month.

**Combined Rates** - The Annual Rate for units consisting of more than one luminaire shall be the appropriate combination of individual unit charges above.

**Special Terms and Conditions** - The BWL reserves the right to make special contractual arrangements as to termination charges, contributions in aid of construction, term or other special considerations when the customer requests service, equipment or facilities not normally provided under this rate.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**POLE ATTACHMENT  
RATE NO. 41**

**Availability** - This rate is available to any customer desiring to attach cable, wire, or equipment to BWL-owned distribution or transmission poles and for which the BWL does not attach distribution cables and wires to poles owned by the attaching customer.

**Nature of Service** - This rate is only available for installations of one year or more and requires the customer to enter into an attachment agreement with the BWL before any attachment is made. All attachments to BWL poles are subject to approval by BWL. Energy used by any attached equipment shall be billed under a separate rate.

**Annual Rate** - Shall be computed in accordance with the following charges:

**2/1/2020**

**Basic Service Charge**

Cable or Wire Attachments	\$7.74 Per attachment per year or part thereof, \$300.00 minimum
Equipment Attachments	\$19.02 Per attachment per year or part thereof, \$300.00 minimum

Unauthorized Attachment Charge	In addition to the Basic Service Charge, a penalty of five times the Annual Rate shall be charged for each unauthorized attachment each year or part thereof, with charges beginning on the date of attachment.
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**Application Charge** - A non-refundable application charge will apply in accordance with the BWL Rules and Regulations.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

For existing pole attachment customers, this rate will become effective the later of July 1, 2018 or at the termination of their existing agreements with the BWL.



**PRIMARY HIGH LOAD FACTOR SERVICE  
RATE NO. 85**

**Availability** - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 1,000 kW or more. To be eligible for this rate, each Service Location must sustain an annual load factor of 85% or greater. Service Locations that fall below an annual load factor of 85% are subject to removal from this rate class and will be placed in Rate 5, Primary Service. This rate is not available for emergency service or standby service.

**Nature of Service** - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

**Monthly Rate** - Shall be computed in accordance with the following charges:

	<u><b>2/1/2020</b></u>	
<b>Basic Service Charge</b>	\$310.00	Per Service Location per month
<b>Capacity Charge</b>		
On-Peak Billing Demand	\$18.73	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$6.52	Per kW for all kW of Maximum Demand
<b>Commodity Charge</b>		
Summer Months of June through October	\$0.0553	Per kWh for all kWh during the On-Peak period
	\$0.0506	Per kWh for all kWh during the Off-Peak period
Winter Months of November through May	\$0.0527	Per kWh for all kWh during the On-Peak period
	\$0.0506	Per kWh for all kWh during the Off-Peak period
<b>Reactive Power Charge</b>	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

**Minimum Bill** - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

**Power Supply Cost Recovery Adjustment** - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

**Electric Environmental Charge** - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

**Renewable Energy Plan Surcharge** - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Energy Waste Reduction Surcharge** - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

**Fee and Tax Adjustment** - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Effective: February 1, 2020

**On-Peak Billing Demand:** The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the month, but the On-Peak Billing Demand charge shall never be less than 1,000 kW.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Maximum Demand:** The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

**Schedule of on-peak and off-peak periods** - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

**Multiple Service Location Aggregation** - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 1,000 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

**Metering** - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

**Equipment Supplied by Customer** - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

**Delayed Payment Charge** - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

**Application Charge** - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

**Rules and Regulations** - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



## **ELECTRIC ENVIRONMENTAL CHARGE**

**Purpose** - The Electric Environmental Charge permits the recovery of costs and expenses incurred from environmental remediation and mitigation activities that are required as matter of agreement, order, decree, or law. All metered Service Locations on all rates are subject to the Electric Environmental Charge, with the Charge added to the kWh cost of each kWh billed. All revenues collected from the Electric Environmental Charge will be directly applied to offset these environmental expenses and associated Return on Equity expenses. The Electric Environmental Charge shall be reviewed and revised periodically until the balance is zero. Should the Electric Environmental Charge collect revenues in excess of environmental expenses, the difference shall be refunded to the applicable rates.

The Electric Environmental Charge shall be reviewed and revised periodically in accordance with the provisions of this schedule.

**Electric Environmental Charge** - The current Electric Environmental Charge is **\$0.0006/kWh**



## POWER SUPPLY COST RECOVERY ADJUSTMENT

The Power Supply Cost Recovery (PSCR) Adjustment permits the monthly adjustment of rates for the costs incurred in supplying electricity. All electric rates with a kWh billing determinant are subject to the PSCR Adjustment. In applying the PSCR Adjustment, the applicable rate per kWh shall be increased or decreased by the amount of the current PSCR Adjustment.

The PSCR Adjustment shall be reviewed and, as necessary, revised periodically in accordance with the provisions of this schedule, but not less frequently than every twelve months.

**Power Supply Cost Recovery (PSCR) Adjustment** - the amount per kWh by which the applicable rates shall be adjusted for billing in each month.

**Power Supply Cost** - those costs incurred in supplying electricity. Costs include, but are not limited to, fuel burned and fuel related cost, fuel transportation, pre and post combustion fuel additives, fuel procurement, environmental allowances, costs of power purchase agreements, Midwest market energy, capacity, and ancillary services costs, and transmission costs.

**Over/Under Recovery** - the difference between actual Power Supply Cost for prior months and the amount of Power Supply Cost recovered by means of the Base Cost of Power Supply and the Power Supply Cost Recovery Adjustment. The Over/Under Recovery shall be added to the Power Supply Cost for purposes of computing the PSCR Adjustment for each month. Power Supply Cost will be offset with net wholesale energy, capacity, ancillary services, and transmission revenues.

**Base Cost of Power Supply** - the average Power Supply Cost included in the energy rates of the various rate schedules. Such amount shall not be recovered by means of the PSCR Adjustment. The current Base Cost of Power Supply is \$0.0361 per kWh sold.



### ENERGY WASTE REDUCTION SURCHARGE

**Purpose** - The Energy Waste Reduction Surcharge (EWR Surcharge) is designed to recover Energy Waste Reduction Plan program costs, as required by 2016 PA 342.

The EWR Surcharge shall be reviewed and revised periodically in accordance with the provisions of this schedule, not to exceed the maximum surcharge allowed under the provisions of 2016 PA 342.

The EWR Surcharge will appear as a line item on the customer's bill.

**Monthly Surcharge** - Current Monthly EWR Surcharges are as follows:

Rate Schedule	EWR Surcharge	EWR Surcharge Self-Directed
<b><u>Residential</u></b>		
Rate 1 Residential	\$0.002678	NA /kWh
Rate 21 Senior Citizen Residential	\$0.002678	NA /kWh
<b><u>Small Secondary Commercial and Industrial</u></b>		
Rates 3 and 12	\$9.51	\$0.66 /Service Location
<b><u>Large Secondary Commercial and Industrial</u></b>		
Rate 4	\$95.05	\$6.66 /Service Location
<b><u>Primary Commercial and Industrial</u></b>		
Rates 5, 85, and 8	\$666.43	\$46.64 /Service Location



## RENEWABLE ENERGY PLAN SURCHARGE

**Purpose** - The Renewable Energy Plan Surcharge (REP Surcharge) is designed to recover Renewable Energy Plan program costs, as required by 2016 PA 342.

The REP Surcharge will appear as a line item on the customer's bill.

*The REP Surcharge shall be reviewed and revised periodically in accordance with the provisions of this schedule, not to exceed the maximum surcharge allowed under the provisions of 2016 PA 342.*

**Monthly Surcharge** - Current Monthly REP Surcharges are as follows:

Rate Schedule	REP Surcharge	
<b><u>Residential</u></b>		
Rate 1 Residential	\$0.00	/Service Location
Rate 21 Senior Citizen Residential	\$0.00	/Service Location
<b><u>Secondary Commercial and Industrial</u></b>		
Rates 3, 4, and 12	\$0.00	/kWh
Minimum Monthly Charge	\$0.00	/Service Location
Maximum Monthly Charge	\$0.00	/Service Location
<b><u>Primary Commercial and Industrial</u></b>		
Rates 5, 85, and 8	\$0.00	/Service Location
<b><u>Unmetered Service</u></b>		
Rate 11	\$0.00	/kWh
Minimum Monthly Charge	\$0.00	/Service Location
Maximum Monthly Charge	\$0.00	/Service Location
<b><u>Street Lighting Service</u></b>		
Rates 31, 31a, and 32		
Less than 100W Luminaire	\$0.00	/Luminaire
100W or greater Luminaire	\$0.00	/Luminaire





## RENEWABLE ENERGY NET METERING RIDER

**Purpose** - This rider provides any customers with on-site generated renewable energy to send renewable energy back to the electric grid when their generation exceeds their own consumption at the participating Service Location.

**Availability** - Net Metering applicants must be an electric customer making use of any metered BWL Electric Rate Schedule. The Net Metering Program will be voluntary and selection of Service Locations for participation in the net metering program shall be based on the order in which the applications for the net metering program are received by the BWL. The Net Metering Program will be in effect until the total nameplate capacity of all participating generators is equal to the maximum program limit of 1% of the BWL peak load for the preceding calendar year. The renewable energy generating system will not exceed 50 kW per Service Location and may be limited, at BWL's sole discretion, to geographical regions within the BWL's service territory.

**Eligible Renewable Energy Resources** - Service Locations must generate a portion or all of their own retail electricity requirements using a renewable energy resource including but not limited to the following: Biomass, Solar Photovoltaic or Wind. Other renewable energy resources not included in the list above must be approved in advance by the BWL.

**Generation and Interconnection Requirements** - The generation equipment must be located on the Service Location's premise and serve only the premises at the associated Service Location. The Net Metering applicant shall be limited to generation capacity designed to meet the Service Location's electric demand and energy needs. The BWL, at its discretion, will make the final determination of the acceptable size of the renewable energy generating system eligible for participation. Before participating in the Net Metering Program, the generator's Service Location must be approved for parallel operation with BWL's electric distribution system by meeting all interconnection requirements.

**Monthly Rate** - All Net Metering Service Locations will be billed \$5.00 per month to recover costs associated with operating the Net Metering Program.

**Net Metering** - Net metering Service Locations with a system capable of generating 20 kW or less shall qualify for true net metering. For Service Locations who qualify for true net metering, the net of the bidirectional flow of kWh across the Service Location interconnection with the BWL distribution system during the billing period, including excess generation credits, shall be credited at the full retail energy (kWh) rate.

- a) The credit for Net Excess Generation (NEG), if any, shall appear on the next bill and any excess credit not used to offset current charges shall be carried forward for use in subsequent billing periods.
- b) Reconciliation of any NEG credits will occur at the end of each calendar year. At that time the customer's NEG credit balance will be reset to zero and any NEG credits will be refunded at the average locational marginal price at the CONS.LANS node for the preceding year.
- c) If a customer leaves the provider's system or service is terminated for any reason, the BWL shall refund to the Service Location the remaining NEG credit amount. Remaining NEG credits will be refunded at the average locational marginal price at the CONS.LANS node for the preceding year.

**Modified Net Metering** - Net metering Service Locations with a system capable of generating more than 20 kW but less than 50 kW will qualify for modified net metering. The requirements for modified net metering are the same as true net metering, with exception of the credit for excess generation at the end of the billing period. The BWL will monetize and credit the Service Location for excess generation monthly;

- At the real-time locational marginal price at the CONS.LANS node, less \$5 per MWh for administration of the modified net metering program, for excess generation in each hourly interval if interval metering equipment is installed; or
- If photovoltaic solar, at the average on-peak locational marginal price at the CONS.LANS node for the billing month, less \$5 per MWh for administration of the modified net metering program, for excess generation received by the BWL during the month if non-interval, bi-directional metering equipment is installed; or

- If not photovoltaic solar, the average locational marginal price at the CONS.LANS node for the billing month, less \$5 per MWh for administration of the modified net metering program, for excess generation received by the BWL during the month if non-interval, bi-directional metering equipment is installed.

**Rules and Regulations** - Service under this rider is subject to the BWL Rules and Regulations for Electric Service and the Renewable Energy Net Metering Program Standards. The BWL reserves the right to revise the terms and conditions including any electric energy buy-back pricing rates of future Net Metering programs.



## **VOLUNTARY RENEWABLE ENERGY RIDER**

**Availability** - This rider is available to customers making use of any kWh metered BWL Electric Rate Schedule. The program will be capped based on availability of renewable energy. The BWL anticipates that renewable energy under this rider will be available in 2019.

**Nature of Service** - The BWL will provide renewable energy to enrolled participants; however, the BWL cannot guarantee that the actual electricity delivered to each participant's Service Location at any specific time will be produced from a renewable energy resource. The renewable energy will be provided in blocks of 250 kWh, with each participant determining the number of blocks they wish to purchase for a Service Location. The participant will be billed for the number of renewable energy blocks purchased, regardless of actual kWh usage at the enrolled Service Location. If more blocks are purchased than actual kWh usage at the enrolled Service Location, the participant is eligible to claim their enrolled Service Location is served with 100% renewable energy, as renewable energy credits associated with the renewable energy purchased through this rider will be retired and will not be used to fulfill BWL's renewable energy compliance requirements or otherwise disposed of.

Enrollment for this rider will begin February 1, 2018. Customers with Service Locations participating in the current Renewable Electric Energy Rider, also known as "Green Wise", will have priority in the allocation of available renewable energy. All other participants will receive allocations in the date order of their enrollment in the program, subject to a cap by customer class (Residential, Commercial, Industrial, and Other) based on the historical distribution of BWL retail electric sales.

**Monthly Rate** - BWL will publish the rider block price in September 2018. This price will increase or decrease from time to time based on cost and availability of renewable energy resources.

**Term and Form of Contract** - If enrollment exceeds the initially available renewable energy resources, all new non-residential participants will be subject to a contract stating the number of blocks they will be purchasing and the period of time they will be enrolled in the rider.



## **SCHEDULED CURTAILMENT/INTERRUPTIBLE ELECTRIC SERVICE RIDER**

**Availability** - This rider is available to customers on Primary Electric Service Rate No. 5, Primary High Load Factor Electric Service Rate No. 85, or Large Capacity Electric Service Rate No. 8 and any applicable future primary or transmission service rate approved by the Commissioners. A customer desiring service under this rider must contract to curtail or interrupt its demand by 1,000 kW or more, upon notice by the Board of Water and Light (BWL). The amount of curtable or interruptible demand subject to this rider may be limited by the Commissioners in total and by customer.

**Conditions of Curtailment/Interruption** - The Commissioners may determine the total kW demand subject to this rider. The General Manager has authorization to negotiate with qualifying customers as to the following terms and conditions of this rider; [1] the customer kW demand subject to interruption or curtailment, [2] metering requirements, [3] the duration of any interruption or curtailment, [4] the notice period, and, [5] buy through provisions (if any).

The contract with the customer will contain the conditions under which the BWL will require curtailment or interruption. Any reduced rate available will include some contribution to fixed costs and depend upon the customer's individual circumstances.

The customer agrees to pay \$50 per kW for the highest 15-minute kW demand created during the curtailed or interrupted period plus replacement energy out of pocket cost plus 10% should the customer choose not to curtail or interrupt electric load.

In the event of an interruption or curtailment to customers on Primary High Load Factor Electric Service Rate No. 85, BWL will take the interruption or curtailment into account when calculating the annual load factor for the determination of rate eligibility as required for service under Rate 85.

### **Definitions**

Curtailed load - The customer agrees to reduce electric load upon notice from the BWL

Interrupted load - The customer agrees to receive no electricity upon notice from the BWL



## ELECTRIC ECONOMIC DEVELOPMENT RIDER

**Purpose** - The Board of Water & Light (BWL) provides economic incentives to its utility service customers with a goal of attracting new customers or growing the business of existing customers. The incentives are employed where, in the BWL's judgment: a) the incentive is a major determining factor for the customer to take or add BWL service(s), and b) use of the incentive will result in economic and other benefits to the BWL and its customers.

**Availability** - This rider is available to new or existing customers through Large General Service Rate 4, Primary Electric Service Rate 5, Primary High Load Factor Service Rate 85, or Large Capacity Electric Service Rate 8. The customer must commit to creating new load or significantly increasing existing load (e.g. 150 kW or greater) in On-Peak Billing Demand for Rates 5, 85, and 8, or Maximum Demand for Rate 4. The BWL will, in its sole discretion, determine the percentage and duration of the incentive offered to the customer. The customer may be required to enter into a written agreement that specifies its commitment to economic development and the BWL's incentives.

### **Monthly Discount**

This rider provides for a discount on the Capacity Charge portion of the customer's monthly billing for the applicable Service Location. For Rates 5, 85 and 8, the discounted Capacity Charge is for the On-Peak Billing Demand only. For Rate 4, the discounted Capacity Charge is for the Maximum Demand only. The BWL will determine the appropriate discount on the new or increased load, which will not exceed the following schedule:

<b>Capacity Charge Discount (kW)</b>	
Years 1-2	Up to 50%
Years 3-4	Up to 30%
Years 5-6	Up to 10%

At the end of the incentive period and all years thereafter, the customer will be billed according to the appropriate rate.

### **Demand Eligible for Discount**

For a new Service Location, the total On-Peak Billing Demand and/or Maximum Demand shall be eligible for the Capacity Charge discount of this rider.

For an existing Service Location, the BWL shall determine the contracted demand eligible for this rider, which may be based on the increase beyond the average of the three highest registered demands of historical load billed during the twelve (12) month period prior to the implementation of the incentive.