

FITCHBURG GAS AND ELECTRIC LIGHT COMPANY

OUTDOOR LIGHTING DELIVERY SERVICE - COMPANY OWNED EQUIPMENT

SCHEDULE SD

AVAILABILITY

This Schedule is available to all Customers for Outdoor Lighting Delivery Service - Company Owned Equipment with the Company's standard lighting fixtures mounted on existing poles, except as otherwise provided herein. The Company will no longer offer sodium vapor luminaires, or mercury vapor luminaires (which were previously discontinued). As these legacy fixtures need replacement, they will be replaced with light emitting diode (“LED”) fixtures, and there will be no special charges to the customer for this replacement. If, however, a customer requests a conversion of a legacy fixture, or multiple fixtures, to LED service in advance of its actual need, requirement for replacement, or Company planned servicing, the Company may require the customer to pay all or a portion of the costs of the conversions as specified under SPECIAL PROVISIONS part d. and e. below. Conversions are also contingent upon availability of Company personnel and/or other resources necessary to perform the conversion.

This Schedule is for delivery service only. Customers are required to obtain an energy supply from a Competitive Supplier or may be eligible for Basic Service from the Company pursuant to Schedule BS as amended from time to time.

CHARACTER OF SERVICE

All lighting shall be photoelectrically controlled and supplied from multiple circuits. The Company will furnish and maintain the equipment hereinafter described, and shall supply service at which the lamps are designed to operate.

DELIVERY SERVICE CHARGES - MONTHLY

The monthly charges for Outdoor Lighting Delivery Service - Company Owned Equipment will include the kWh Charges plus the Luminaire Charges for the applicable luminaire as listed below.

Distribution Charge:

All kWh As per Schedule SR as in effect from time to time

Internal Transmission Charge:

All kWh As per Schedule SR as in effect from time to time

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(A) Mercury Vapor Lighting Equipment*

Lamp Size Nominal Lumens (Approx.)	<u>Type of Luminaire</u>	Price Per Luminaire Per Month	<u>Distribution Charge</u>
3,500	(MV) Street and Highway Type		As per Schedule SR as in effect from time to time
7,000	(MV) Street and Highway Type		As per Schedule SR as in effect from time to time
20,000	(MV) Street and Highway Type		As per Schedule SR as in effect from time to time
60,000	(MV) Street and Highway Type		As per Schedule SR as in effect from time to time
20,000	(MV) Flood Light Type		As per Schedule SR as in effect from time to time
3,500	(MV) Power Bracket Included		As per Schedule SR as in effect from time to time
7,000	(MV) Power Bracket Included		As per Schedule SR as in effect from time to time

* Mercury Vapor Lighting is not available for new lighting installations, effective January 1, 1991.

(B) High Pressure Sodium Lighting Equipment**

Lamp Size Nominal Lumens (Approx.)	<u>Type of Luminaire</u>	Price Per Luminaire Per Month	<u>Distribution Charge</u>
3,300	(HPS) Street and Highway Type		As per Schedule SR as in effect from time to time
9,500	(HPS) Street and Highway Type		As per Schedule SR as in effect from time to time
20,000	(HPS) Street and Highway Type		As per Schedule SR as in effect from time to time
50,000	(HPS) Street and Highway Type		As per Schedule SR as in effect from time to time
140,000	(HPS) Street and Highway Type		As per Schedule SR as in effect from time to time
50,000	(HPS) Flood Light Type		As per Schedule SR as in effect from time to time

**High Pressure Sodium Lighting is not available for new lighting installations, effective September 1, 2023.

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(C) Ornamental Lighting Equipment (Customer assumes all initial installation expenses inclusive of materials).

Lamp Size		Price Per Luminaire
Nominal		Per Month
Lumens		
<u>(Approx.)</u>	<u>Type of Luminaire</u>	<u>Distribution Charge</u>
3,300	Street and Highway Type	As per Schedule SR as in effect from time to time

(D) Light Emitting Diode (LED) Equipment

Lamp Size		Price Per Luminaire
Wattage		Per Month
<u>(Range)</u>	<u>Type of Luminaire</u>	<u>Distribution Charge</u>
20-30	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
31-40	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
41-50	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
51-60	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
61-80	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
81-110	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
111-150	(LED) Cobra Head Type	As per Schedule SR as in effect from time to time
40-60	(LED) Flood Light Type	As per Schedule SR as in effect from time to time
61-80	(LED) Flood Light Type	As per Schedule SR as in effect from time to time
81-110	(LED) Flood Light Type	As per Schedule SR as in effect from time to time
111-150	(LED) Flood Light Type	As per Schedule SR as in effect from time to time
350-390	(LED) Flood Light Type	As per Schedule SR as in effect from time to time
20-30	(LED) Yard Light Type	As per Schedule SR as in effect from time to time
31-40	(LED) Yard Light Type	As per Schedule SR as in effect from time to time
41-50	(LED) Yard Light Type	As per Schedule SR as in effect from time to time
51-60	(LED) Yard Light Type	As per Schedule SR as in effect from time to time
61-80	(LED) Yard Light Type	As per Schedule SR as in effect from time to time
81-110	(LED) Yard Light Type	As per Schedule SR as in effect from time to time
111-150	(LED) Yard Light Type	As per Schedule SR as in effect from time to time

Issued by: Daniel Hurstak
 Vice President and Treasurer

Issued: December 16, 2024
 Effective: December 1, 2024

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BILLING KWH PER LUMINAIRE

Charges per kWh will be based on the monthly kWh per luminaire shown in the table below.

Lamp Size (Lumens and Type)

<u>Mercury Vapor:</u>	<u>Wattage</u>	<u>Monthly kWh</u>
3,500 Street and Highway Type	100	33
7,000 Street and Highway Type	175	57
20,000 Street and Highway Type	400	131
60,000 Street and Highway Type	1,000	328
20,000 Flood Light Type	400	131
3,500 Power Bracket Included	100	33
7,000 Power Bracket Included	175	57

<u>High Pressure Sodium:</u>		
3,300 Street and Highway Type	50	16
9,500 Street and Highway Type	100	33
20,000 Street and Highway Type	200	66
50,000 Street and Highway Type	400	131
140,000 Street and Highway Type	1,000	328
50,000 Flood Light Type	400	131

<u>Lamp Size Wattage (Range)</u>	<u>Type of Luminaire</u>	<u>Nominal Wattage</u>	<u>Monthly kWh</u>
20-30	(LED) Cobra Head Type	25	8
31-40	(LED) Cobra Head Type	35	11
41-50	(LED) Cobra Head Type	45	15
51-60	(LED) Cobra Head Type	55	18
61-80	(LED) Cobra Head Type	70	23
81-110	(LED) Cobra Head Type	95	31
111-150	(LED) Cobra Head Type	130	43

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40-60	(LED) Flood Light Type	50	16
61-80	(LED) Flood Light Type	70	23
81-110	(LED) Flood Light Type	95	31
111-150	(LED) Flood Light Type	130	43
350-390	(LED) Flood Light Type	370	121
20-30	(LED) Yard Light Type	25	8
31-40	(LED) Yard Light Type	35	11
41-50	(LED) Yard Light Type	45	15
51-60	(LED) Yard Light Type	55	18
61-80	(LED) Yard Light Type	70	23
81-110	(LED) Yard Light Type	95	31
111-150	(LED) Yard Light Type	130	43

Ornamental:	<u>Wattage</u>	<u>Monthly kWh</u>
3,300 Street and Highway Type	50	16

OTHER EQUIPMENT

Lighting fixtures other than those specified herein will be provided only at prices and for a term of contract to be mutually agreed upon. The Company shall calculate the kWh as needed for light types that do not conform to this list based on equipment specifications provided by the customer.

USE OF ADVANCED CONTROLS

Where lighting controls that meet the current ANSI C12.20 standard have been installed that allow variation from the Company's outdoor lighting hours schedule, the Customer must provide verification of such installation to the Company and a schedule indicating the expected average operating wattage of each light subject to the Customer's control and operation. The wattage ratings shall allow for the billing of kilowatt-hours according to the schedule submitted by the Customer to the Company and reflect any adjustments from the lighting control system including, but not limited to, fixture trimming, dimming, brightening, variable dimming, and multiple hourly schedules.

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For billing purposes, the expected average operating wattage for each of the light sources resulting from installed control adjustments will be multiplied by the annual hours of operation in the tariff divided by 12, then divided by the monthly kWh usage designated in this tariff. The resulting percentage (rounded to the nearest whole number) will be applied to the monthly kWh designated in this tariff to determine the monthly kWh for billing. Upon installation and at any time thereafter, the Customer must also provide the Company access, either directly or indirectly, to the data from the Customer's control system in order for the Company to verify the measured energy use of the lighting systems and modify the billed usage as appropriate. Prior to any such modified billing, the Company and the Customer shall meet in good faith to discuss the circumstance of the higher observed wattage and attempt to resolve the matter in a mutually agreeable manner. These discussions will include a determination of the number of fixtures subject to rebilling and the period that rebilling is in effect. The Customer shall provide a report annually which provides actual monthly operating usage of such lighting systems.

The schedule of average operating wattage ratings for all lights may be revised annually on the anniversary of the Customer's initial opt-in date. Changes may be requested outside of the operating wattage ratings outside of the anniversary date and made if agreed to by the Company. Revisions to the schedule of average operating wattage ratings requested by the Customer may take one or two billing cycles to become effective. The Company reserves the right to bill all the LED lights based on the total wattage as provided under this tariff, instead of the lower wattage, if any fixture is reset without the express written consent of the Company. Prior to billing all lights based on the total wattage, the Company and the Customer shall meet in good faith to discuss the circumstance of the unauthorized fixture wattage reset and attempt to resolve the matter in a mutually agreeable manner. These discussions will include a determination of the number of fixtures subject to rebilling and the period that rebilling is in effect.

TERM OF CONTRACT

Service under this Schedule shall be for an initial period of one year with automatic one year extensions thereafter until canceled by either party giving the other notice in writing at least 30 days prior to the expiration of any contract year. The Company may require longer initial and renewal contract terms whenever, in its opinion, the estimated annual revenue is insufficient to warrant the Company making the necessary commitments to render service.

BILLS AND PAYMENT

Bills are net and due upon presentation.

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SCHEDULE SD (Continued)

FARM CREDIT

Customers who qualify as persons or corporations engaged in the business of agriculture or farming, as defined pursuant to section 1A of Chapter 128 of the General Laws, shall receive a credit of ten percent from the otherwise applicable rates. The credit shall be based on full Delivery Service rates plus the Basic Service rate, if applicable. The credit will be recalculated as required to maintain the ten percent discount from these rates as in effect from time to time.

SPECIAL PROVISIONS

(a) **Hours of Operation**

Approximate hours of operation will be from one-half hour after sunset to one-half hour before sunrise. The total burning hours shall not exceed 4,100 hours per year.

(b) **Lamp Replacement**

The Company shall replace defective lamps as promptly as possible during regular working hours, after having been advised of the need of such replacement by the Customer.

(c) **Change of Location**

The Company will, at the expense of the Customer, change the location of such fixtures as the Customer may order.

(d) **Change/Removal of Fixture**

The Company will change the type of lighting fixture at the Customer's request, during regular working hours, but may require the customer to reimburse the Company for the depreciated cost of the retired equipment including installation and cost of removal, less any salvage value thereon.

(e) **Conversion to LED**

If a Customer requests multiple conversions of fixtures from Mercury Vapor to LED, or from High Pressure Sodium to LED, the Company may, in addition to the provisions of section (d) above, require the Customer to pay all or a portion of the costs of the conversions, including labor, material, traffic control, and overheads. Conversions to Mercury Vapor or High Pressure Sodium are no longer offered.

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(f) **Permits**

The Customer shall provide, without cost to the Company, all permits, consents, or easements necessary for the erection, maintenance and operation of the Company's facilities, including the right to cut and trim trees where necessary

(g) **Limitation of Service**

The Company reserves the right to restrict installations served under this schedule to those which will yield a reasonable return to the Company and to areas easily accessible by service truck.

(h) **Additional Equipment**

Lighting installations requiring new poles and overhead conductors, or lighting units mounted on ornamental standards connected to an underground distribution circuit will be available only when the Customer signs an agreement under which Customer agrees to pay each month an additional charge of 2.4% of the excess cost of the facilities. Such an agreement shall have a minimum term of ten (10) years whenever more than four (4) luminaires are so installed.

Excess cost is defined as being the cost in excess of that which would have been incurred had the lights been mounted on existing poles.

(i) **Failure of Lights to Burn**

If any lights fail to burn the full period herein provided, then upon request, a deduction will be made from the monthly price for such lights provided they are not burning within 72 hours from the time the Company is notified of the outage.

The deduction shall be the monthly Delivery Service Charges multiplied by the ratio that the period of such outage bears to the total monthly burning time as herein indicated.

This deduction shall not apply in case the failure of the lights to burn is due to the act of any public authority or to malicious breakage; provided, however, that in the latter case the necessary repairs are made with reasonable dispatch.

(j) **Nominal Wattage**

Given the continuous improvements in the efficiency of LED lighting, a wattage range has been created for LED-type lights to accommodate future efficiency changes. The Company may install LED street and yard lighting that have wattage ratings that fall in the ranges listed above. The nominal wattage shall be the billable wattage.

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ADJUSTMENTS

The Delivery Service Charges under this rate shall be adjusted from time to time to reflect the following:

- Energy Efficiency Charge - Schedule EEC
- Energy Efficiency Reconciliation Factor - Schedule EEC
- Internal Transmission Service Cost Adjustment - Schedule ITSCA
- External Transmission Charge - Schedule ETC
- Renewable Resource Charge - Schedule RRC
- Basic Service Adjustment - Schedule BSA
- Pension/PBOP Adjustment Factor - Schedule PAF
- Net Metering Recovery Surcharge - Schedule NM
- Revenue Decoupling Adjustment Factor - Schedule RDAC
- Attorney General Consultant Expense Factor - Schedule AGCEF
- Long-Term Renewable Energy Contract Adjustment Factor - Schedule LTRCA
- Residential Assistance Adjustment Clause - Schedule RAAC
- Capital Cost Adjustment - Schedule CCA
- Solar Cost Adjustment - Schedule SCA
- Solar Massachusetts Renewable Target - Schedule SP
- Storm Reserve Adjustment Factor - Schedule SRAC
- Grid Modernization Factor - Schedule GMF
- Exogenous Cost Adjustment Factor – Schedule ECAF

For billing purposes, the Pension/PBOP Adjustment Factor, Revenue Decoupling Adjustment Factor, Attorney General Consultant Expense Factor, Long-Term Renewable Energy Contract Adjustment Factor, Residential Assistance Adjustment Clause, Capital Cost Adjustment, Solar Cost Adjustment, Storm Reserve Adjustment Factor, Grid Modernization Factor, Exogenous Cost Adjustment Factor and Basic Service Adjustment will be included in the Distribution Charge. The Internal Transmission Service Cost Adjustment and External Transmission Charge will be added to the Internal Transmission Charge and billed as the

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Transmission Charge. The Energy Efficiency Charge, including the Energy Efficiency Reconciliation Factor, Net Metering Recovery Surcharge, Renewable Resource Charge and Solar Massachusetts Renewable Target will each be included as separate items on the bill.

Distribution rates shall also be adjusted by the Performance Based Revenue Adjustment – Schedule PBRA, annually.

TERMS AND CONDITIONS

The Company's Terms and Conditions, in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this Schedule.