

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-A
Rate EV-1

PRIMARY GENERAL DELIVERY SERVICE RATE EV-1

AVAILABILITY

Service under this schedule is specifically limited to customers who require service for charging a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) via a recharging outlet. This Schedule is available for use at business locations or commercially owned electric vehicle charging stations with average use consistently equal to or in excess of one hundred (100) kilowatts (kW) of demand as measured by the Company. At least 90 percent of a customer's individually metered load, as projected at the time the Company conducts its calculation relating to the customer contribution in aid of construction, must be utilized for electric vehicle charging. Customers whose electric vehicle charging load will represent less than 90 percent of the load served by the customer meter shall be ineligible for service under this rate.

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for high voltage Delivery Service. It is available upon the signing of a Service Agreement for such service at specified delivery points to Customers whose maximum demand shall not exceed 1,000 kilowatts. Service rendered hereunder shall exclude backup and standby service provided under Backup Delivery Service Rate B. Outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL.

Suitable transforming, controlling and regulating apparatus, acceptable to and approved by the Company, shall be provided at the expense of the Customer. In locations in which space limitations or other factors make it impossible or inadvisable, in the opinion of the Company, for the Customer to have transforming apparatus devoted to its exclusive use, and in secondary network areas in which primary service is not made available by the Company at its option, Delivery Service shall be supplied from Company-owned transforming apparatus which also supplies other Customers. In such cases, this rate is available provided the Customer pays an annual rental charge equal to eighteen percent (18.0%) of the cost of the equivalent transformer capacity the Customer would furnish or rent to serve the load if exclusive use of a transformer bank by him were possible or if primary, three-phase service were available and provided the Customer pays in full the estimated cost of installing such equivalent transformer capacity at the time Delivery Service is initiated.

CHARACTER OF SERVICE

The charging station shall be connected by means of an approved circuit to a separate charging meter for the electric vehicle charging station. Delivery Service supplied under this rate will be three-phase, 60 hertz, alternating current, at a nominal voltage determined by the Company, generally 2,400/4,160, 4,800/8,320, 7,200/12,470, or 19,920/34,500 volts. A reasonably balanced load between phases shall be maintained by the Customer.

RATE PER MONTH

Customer Charge.....\$211.21 per month

Issued: June 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
 DBA EVERSOURCE ENERGY

Original Page 65-B
 Rate EV-1

Demand Charges:

Per Kilowatt of Maximum Demand

Distribution Charges	\$3.41
Regulatory Reconciliation Adjustment.....	\$(0.02)
Stranded Cost Recovery	\$0.23

Energy Charges:

The rates for energy (kWh) based Distribution and Transmission charges are seasonal with a summer period from May 1 to September 30, and a winter period from October 1 to April 30.

Per Kilowatt-Hour

Distribution Charges:

On-Peak.....	3.143¢
Mid-Peak.....	1.394¢
Off-Peak.....	1.050¢

Transmission Charges:

On-Peak.....	5.185¢
Off-Peak.....	1.410¢
Critical Peak.....	0.053¢
Stranded Cost Recovery.....	0.259¢
Systems Benefits Charge...	0.863¢

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-C
Rate EV-1

PRIMARY METERING LOSS ADJUSTMENT

When at the Company's option Delivery Service is metered at delivery voltage (2,400 volts nominal and above), all demand and energy meter readings shall be reduced by one and three-quarters percent (1.75%). Where feasible and at the Company's option, a value other than one and three-quarters percent (1.75%) may be used when specific data is available and this value is a more accurate representation of electrical losses.

MAXIMUM DEMAND

The kilowatt (KW) demand during each thirty-minute interval of the current monthly billing period shall be determined by measurement. Maximum demand shall be determined to the nearest whole (1.0) kilowatt (KW) for billing purposes and shall be defined as the greater of:

- (1) the highest kilowatt (KW) demand registered during the on-peak and mid-peak hours of said period, or
- (2) fifty percent (50%) of the maximum demand, as defined above, occurring during off-peak hours.

PEAK PERIODS

The peak period shall be the period including the hours after 2 p.m. through 7 p.m. Monday through Friday. The mid-peak period shall be the period including the hours after 11 a.m. through 2 pm, and after 7 p.m. through 10 p.m., weekdays, and after 2 p.m. through 10 p.m. Saturdays and Sundays. The off-peak period shall be all hours not included in the on-peak or mid-peak periods.

CONTRACT TERM

The contract term shall be for not less than one year and for such longer periods as maybe determined by the operation of the sections in this rate entitled "Guarantees" and "Apparatus". The customer may switch to either Rate GV or Rate EV-1 at any time. However, the customer must be on one of these three rates for at least one year.

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-D
Rate EV-1

GUARANTEES

- (a) When the estimated expenditure necessary to deliver electrical energy properly to a Customer's premises shall be of such an amount that the income to be derived from the delivery of such energy at the rate herein established, including the monthly minimum charge, will be insufficient to warrant such expenditure, the Company may require the Customer to guarantee a minimum annual payment for a term of years and/or to pay the whole or a part of the cost of extending, enlarging, or rebuilding its facilities to supply the Customer's premises or other reasonable payments in addition to the payments otherwise provided herein.
- (b) Except as provided by the Terms and Conditions and as modified by the provisions of Paragraph (a) of this section, and exclusive of any charges made under the provisions of the section in this rate entitled "Apparatus" and if applicable, for Default Energy Service, the minimum charge shall be \$1,062 per month.

APPARATUS

Substation foundations, structures, and all necessary controlling, regulating, transforming, and protective apparatus shall be furnished, owned, and maintained by the Customer at the Customer's expense. However, controlling, regulating, and transforming apparatus may be rented from the Company at a charge of eighteen percent (18.0%) per year of the equipment cost. The cost of installing such equipment shall be paid in full at the time service is initiated. In no event shall the Company be required to rent apparatus to the Customer the total cost of which shall exceed \$10,000. The Company may refuse to rent pole-mounted apparatus based on environmental and other immediate hazards that are present. In the event the Company refuses to rent a pole-mounted apparatus, the Company shall inform the Customer of the environmental and other immediate hazards that are present and shall provide the Customer with the opportunity to remove the hazards. In the event the environmental and the other immediate hazards are removed by the Customer, the Company shall agree to rent pole-mounted apparatus to the Customer. If a Customer-owned structure supporting a Company owned pole-mounted transformer is deemed insufficient or threatened by trees or other hazards, the Company shall inform the Customer of the hazards and shall provide the Customer with the opportunity to repair or remove the hazard. In the event the Customer refuses to repair or remove the hazard or does not repair or remove the hazard in a timely manner, the Company is authorized to terminate the existing rental agreement and to remove the transformer upon 90 days written notice to the Customer. In cases where the Customer elects to rent apparatus from the Company, the Customer shall guarantee, in addition to any other guarantees, to continue to pay rental therefor for a period of not less than four (4) years. Any customer rental fees for transformers or other equipment will last 4 years regardless of the duration of this rate offering. Should the Customer discontinue service before four (4) years shall have elapsed, the guaranteed rental then unpaid shall immediately become due and payable.

METERING

The Company may install one or more meters at its option. Metering shall be located on the low voltage side of the Customer's transforming apparatus provided, however, that metering may be at delivery voltage at the option of the Company.

Issued: June 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 20-170
Attachment 1
July 6, 2022

NHPUC NO. -10 ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 47-D
Rate R-EV

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, service under this schedule is specifically limited to residential customers who require service restricted to charging a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) via a recharging outlet at the customer's premises. This schedule is not available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's onboard generator) hybrid electric vehicle (HEV). The availability of this rate is contingent upon the availability of time-of-use meters as determined by the Company.

SERVICE AGREEMENT

The term of the Service Agreement shall be one year and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

CHARACTER OF SERVICE

The charging station shall be connected by means of an approved circuit to a separate charging meter for electric vehicles. Service supplied under this rate will be single-phase, 60 hertz, alternating current, normally three-wire at a nominal voltage of 120/240 volts.

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 20-170
Attachment 1
July 6, 2022

NHPUC NO. 10 - ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 47E
Rate R-EV

RATE PER MONTH

Customer Charge \$16.50 per month

Energy Charges:

The rates for Distribution and Transmission charges are seasonal with a summer period from May 1 to September 30, and a winter period from October 1 to April 30.

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours (2:00 p.m. to 7:00 p.m.
weekdays excluding Holidays)..... 8.916¢
Off-Peak Hours (all other hours)..... 4.315¢
Regulatory Reconciliation Adjustment (0.032)¢

Transmission Charges:

On-Peak Hours (2:00 p.m. to 7:00 p.m.
weekdays excluding Holidays)..... 8.979¢
Off-Peak Hours (all other hours)..... 1.747¢

Stranded Cost Recovery 0.360¢

The On-Peak Hours shall be the hours after 2:00 p.m. and before 7:00 p.m. weekdays excluding holidays as defined in this Tariff. The Off-Peak Hours shall be all hours not included in the On-Peak Hours.

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10 - ELECTRICITY DELIVERY
 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
 DBA EVERSOURCE ENERGY

Original Page 87A
 Rate DE

DEFAULT ENERGY SERVICE RATE DE

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for Default Energy Service in conjunction with the applicable Delivery Service Rate Schedule. It is available to Customers who are not receiving Supplier Service or Self-Supply Service.

Notwithstanding any other Tariff provision or Special Contract terms, no discount shall be applied to this rate.

RATE PER MONTH

Applicable to customers receiving Delivery Service under Primary General Delivery Service Rate GV, Large General Delivery Service Rate LG and Backup Delivery Service Rate B, including any outdoor area lighting taken in conjunction with these accounts under Outdoor Lighting Delivery Service Rate OL:

	<u>Per Kilowatt-Hour</u>					
	<u>February</u> <u>2022</u>	<u>March</u> <u>2022</u>	<u>April</u> <u>2022</u>	<u>May</u> <u>2022</u>	<u>June</u> <u>2022</u>	<u>July</u> <u>2022</u>
Base Rate	20.764¢	11.939¢	8.309¢	6.944¢	7.237¢	8.614¢
RPS Adjustment Factor	0.794¢	0.794¢	0.794¢	0.794¢	0.794¢	0.794¢
Administrative and General	.0630¢	.0630¢	.0630¢	.063¢	.063¢	.063¢
Reconciliation Adjustment Factor	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>
Total Rate Per Month	21.425¢	12.600¢	8.970¢	7.605¢	7.898¢	9.275¢

Rate EV-1

Peak Rate	-	-	-	-	-	17.472¢
Mid Peak Rate	-	-	-	-	-	9.217¢
Off Peak Rate	-	-	-	-	-	6.622¢

Rate R-EV

The rates for Distribution and Transmission charges are seasonal with a summer period from May 1 to September 30, and a winter period from October 1 to April 30.

February 2022 – August 2022

	<u>Per Kilowatt-Hour</u>
Peak Rate	18.924¢
Off-Peak Rate	8.919¢

Issued: July 6, 2022

Issued by: Douglas W. Foley
 Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10 - ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 87B
Rate DE

Applicable to all other customers:

February 2022 – August 2022
Per Kilowatt-Hour

Base Rate	10.203¢
Reconciliation Adjustment	-0.391¢
Renewable Portfolio Standard	0.794¢
<u>Administrative & General</u>	<u>0.063¢</u>
Total Rate Per Month	10.669¢

Issued: July 6, 2022

Issued by: Douglas W. Foley
Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-A
Rate EV-1

PRIMARY GENERAL DELIVERY SERVICE RATE EV-1

AVAILABILITY

Service under this schedule is specifically limited to customers who require service for charging a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) via a recharging outlet. This Schedule is available for use at business locations or commercially owned electric vehicle charging stations with average use consistently equal to or in excess of one hundred (100) kilowatts (kW) of demand as measured by the Company. At least 90 percent of a customer's individually metered load, as projected at the time the Company conducts its calculation relating to the customer contribution in aid of construction, must be utilized for electric vehicle charging. Customers whose electric vehicle charging load will represent less than 90 percent of the load served by the customer meter shall be ineligible for service under this rate.

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for high voltage Delivery Service. It is available upon the signing of a Service Agreement for such service at specified delivery points to Customers whose maximum demand shall not exceed 1,000 kilowatts. Service rendered hereunder shall exclude backup and standby service provided under Backup Delivery Service Rate B. Outdoor area lighting is available under Outdoor Lighting Delivery Service Rate OL.

Suitable transforming, controlling and regulating apparatus, acceptable to and approved by the Company, shall be provided at the expense of the Customer. In locations in which space limitations or other factors make it impossible or inadvisable, in the opinion of the Company, for the Customer to have transforming apparatus devoted to its exclusive use, and in secondary network areas in which primary service is not made available by the Company at its option, Delivery Service shall be supplied from Company-owned transforming apparatus which also supplies other Customers. In such cases, this rate is available provided the Customer pays an annual rental charge equal to eighteen percent (18.0%) of the cost of the equivalent transformer capacity the Customer would furnish or rent to serve the load if exclusive use of a transformer bank by him were possible or if primary, three-phase service were available and provided the Customer pays in full the estimated cost of installing such equivalent transformer capacity at the time Delivery Service is initiated.

CHARACTER OF SERVICE

The charging station shall be connected by means of an approved circuit to a separate charging meter for the electric vehicle charging station. Delivery Service supplied under this rate will be three-phase, 60 hertz, alternating current, at a nominal voltage determined by the Company, generally 2,400/4,160, 4,800/8,320, 7,200/12,470, or 19,920/34,500 volts. A reasonably balanced load between phases shall be maintained by the Customer.

RATE PER MONTH

Customer Charge.....\$211.21 per month

Issued: June 6, 2022 Issued by: Douglas W. Foley

Effective: Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-B
Rate EV-1

Demand Charges:

Per Kilowatt of Maximum Demand

<u>Distribution Charges</u>	<u>\$3.41</u>
<u>Regulatory Reconciliation Adjustment.....</u>	<u>\$(0.02)</u>
<u>Stranded Cost Recovery</u>	<u>\$0.23</u>

Energy Charges:

The rates for energy (kWh) based Distribution and Transmission charges are seasonal with a summer period from May 1 to September 30, and a winter period from October 1 to April 30.

Per Kilowatt-Hour

Distribution Charges:

<u>On-Peak.....</u>	<u>3.143¢</u>
<u>Mid-Peak.....</u>	<u>1.394¢</u>
<u>Off-Peak.....</u>	<u>1.050¢</u>

Transmission Charges:

<u>On-Peak.....</u>	<u>5.185¢</u>
<u>Off-Peak.....</u>	<u>1.410¢</u>
<u>Critical Peak.....</u>	<u>0.053¢</u>
<u>Stranded Cost Recovery.....</u>	<u>0.259¢</u>
<u>Systems Benefits Charge... ..</u>	<u>0.863¢</u>

Issued: July 6, 2022 Issued by: Douglas W. Foley

Effective: Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-C
Rate EV-1

PRIMARY METERING LOSS ADJUSTMENT

When at the Company's option Delivery Service is metered at delivery voltage (2,400 volts nominal and above), all demand and energy meter readings shall be reduced by one and three-quarters percent (1.75%). Where feasible and at the Company's option, a value other than one and three-quarters percent (1.75%) may be used when specific data is available and this value is a more accurate representation of electrical losses.

MAXIMUM DEMAND

The kilowatt (KW) demand during each thirty-minute interval of the current monthly billing period shall be determined by measurement. Maximum demand shall be determined to the nearest whole (1.0) kilowatt (KW) for billing purposes and shall be defined as the greater of:

- (1) the highest kilowatt (KW) demand registered during the on-peak and mid-peak hours of said period, or
- (2) fifty percent (50%) of the maximum demand, as defined above, occurring during off-peak hours.

PEAK PERIODS

The peak period shall be the period including the hours after 2 p.m. through 7 p.m. Monday through Friday. The mid-peak period shall be the period including the hours after 11 a.m. through 2 pm, and after 7 p.m. through 10 p.m., weekdays, and after 2 p.m. through 10 p.m. Saturdays and Sundays. The off-peak period shall be all hours not included in the on-peak or mid-peak periods.

CONTRACT TERM

The contract term shall be for not less than one year and for such longer periods as maybe determined by the operation of the sections in this rate entitled "Guarantees" and "Apparatus". The customer may switch to either Rate GV or Rate EV-1 at any time. However, the customer must be on one of these three rates for at least one year.

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10-ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 65-D
Rate EV-1

GUARANTEES

- (a) When the estimated expenditure necessary to deliver electrical energy properly to a Customer's premises shall be of such an amount that the income to be derived from the delivery of such energy at the rate herein established, including the monthly minimum charge, will be insufficient to warrant such expenditure, the Company may require the Customer to guarantee a minimum annual payment for a term of years and/or to pay the whole or a part of the cost of extending, enlarging, or rebuilding its facilities to supply the Customer's premises or other reasonable payments in addition to the payments otherwise provided herein.
- (b) Except as provided by the Terms and Conditions and as modified by the provisions of Paragraph (a) of this section, and exclusive of any charges made under the provisions of the section in this rate entitled "Apparatus" and if applicable, for Default Energy Service, the minimum charge shall be \$1,062 per month.

APPARATUS

Substation foundations, structures, and all necessary controlling, regulating, transforming, and protective apparatus shall be furnished, owned, and maintained by the Customer at the Customer's expense. However, controlling, regulating, and transforming apparatus may be rented from the Company at a charge of eighteen percent (18.0%) per year of the equipment cost. The cost of installing such equipment shall be paid in full at the time service is initiated. In no event shall the Company be required to rent apparatus to the Customer the total cost of which shall exceed \$10,000. The Company may refuse to rent pole-mounted apparatus based on environmental and other immediate hazards that are present. In the event the Company refuses to rent a pole-mounted apparatus, the Company shall inform the Customer of the environmental and other immediate hazards that are present and shall provide the Customer with the opportunity to remove the hazards. In the event the environmental and the other immediate hazards are removed by the Customer, the Company shall agree to rent pole-mounted apparatus to the Customer. If a Customer-owned structure supporting a Company owned pole-mounted transformer is deemed insufficient or threatened by trees or other hazards, the Company shall inform the Customer of the hazards and shall provide the Customer with the opportunity to repair or remove the hazard. In the event the Customer refuses to repair or remove the hazard or does not repair or remove the hazard in a timely manner, the Company is authorized to terminate the existing rental agreement and to remove the transformer upon 90 days written notice to the Customer. In cases where the Customer elects to rent apparatus from the Company, the Customer shall guarantee, in addition to any other guarantees, to continue to pay rental therefor for a period of not less than four (4) years. Any customer rental fees for transformers or other equipment will last 4 years regardless of the duration of this rate offering. Should the Customer discontinue service before four (4) years shall have elapsed, the guaranteed rental then unpaid shall immediately become due and payable.

METERING

The Company may install one or more meters at its option. Metering shall be located on the low voltage side of the Customer's transforming apparatus provided, however, that metering may be at delivery voltage at the option of the Company.

Issued: June 6, 2022 Issued by: Douglas W. Foley

Effective: Title: President, NH Electric Operations

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 20-170
Attachment 2
July 6, 2022

NHPUC NO. -10 ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 47-D
Rate R-EV

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, service under this schedule is specifically limited to residential customers who require service restricted to charging a battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV) via a recharging outlet at the customer's premises. This schedule is not available to customers with a conventional charge sustaining (battery recharged solely from the vehicle's onboard generator) hybrid electric vehicle (HEV). The availability of this rate is contingent upon the availability of time-of-use meters as determined by the Company.

SERVICE AGREEMENT

The term of the Service Agreement shall be one year and shall continue thereafter until canceled by one month's notice to the Company by the Customer. The Customer will not be permitted to change from this rate to any other rate until the Customer has taken service under this rate for at least twelve months. However, upon payment by the Customer of a suitable termination charge, the Company may, at its option, waive this provision where a substantial hardship to the Customer would otherwise result.

CHARACTER OF SERVICE

The charging station shall be connected by means of an approved circuit to a separate charging meter for electric vehicles. Service supplied under this rate will be single-phase, 60 hertz, alternating current, normally three-wire at a nominal voltage of 120/240 volts.

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 20-170
Attachment 2
July 6, 2022

NHPUC NO. 10 - ELECTRICITY DELIVERY
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
DBA EVERSOURCE ENERGY

Original Page 47E
Rate R-EV

RATE PER MONTH

Customer Charge \$16.50 per month

Energy Charges:

The rates for Distribution and Transmission charges are seasonal with a summer period from May 1 to September 30, and a winter period from October 1 to April 30.

Per Kilowatt-Hour

Distribution Charges:

On-Peak Hours (2:00 p.m. to 7:00 p.m.
weekdays excluding Holidays)..... 8.916¢

Off-Peak Hours (all other hours)..... 4.315¢

Regulatory Reconciliation Adjustment (0.032)¢

Transmission Charges:

On-Peak Hours (2:00 p.m. to 7:00 p.m.
weekdays excluding Holidays)..... 8.979¢

Off-Peak Hours (all other hours)..... 1.747¢

Stranded Cost Recovery 0.360¢

The On-Peak Hours shall be the hours after 2:00 p.m. and before 7:00 p.m.
weekdays excluding holidays as defined in this Tariff. The Off-Peak Hours shall be all
hours not included in the On-Peak Hours.

Issued: July 6, 2022

Issued by: Douglas W. Foley

Effective:

Title: President, NH Electric Operations

NHPUC NO. 10 - ELECTRICITY DELIVERY
Original Page 87A
 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
 DBA EVERSOURCE ENERGY

~~3rd Revised~~

Rate DE Superseding 2nd Page 87
Rate DE

DEFAULT ENERGY SERVICE RATE DE

AVAILABILITY

Subject to the Terms and Conditions of the Tariff of which it is a part, this rate is for Default Energy Service in conjunction with the applicable Delivery Service Rate Schedule. It is available to Customers who are not receiving Supplier Service or Self-Supply Service.

Notwithstanding any other Tariff provision or Special Contract terms, no discount shall be applied to this rate.

RATE PER MONTH

Applicable to customers receiving Delivery Service under Primary General Delivery Service Rate GV, Large General Delivery Service Rate LG and Backup Delivery Service Rate B, including any outdoor area lighting taken in conjunction with these accounts under Outdoor Lighting Delivery Service Rate OL:

	<u>Per Kilowatt-Hour</u>					
	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022
Base Rate	20.764¢	11.939¢	8.309¢	6.944¢	7.237¢	8.614¢
RPS Adjustment Factor	0.794¢	0.794¢	0.794¢	0.794¢	0.794¢	0.794¢
Administrative and General	.0630¢	.0630¢	.0630¢	.063¢	.063¢	.063¢
Reconciliation Adjustment Factor	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>	<u>-0.196¢</u>
Total Rate Per Month	21.425¢	12.600¢	8.970¢	7.605¢	7.898¢	9.275¢

Rate EV-1

<u>Peak Rate</u>	=	=	=	=	=	<u>17.472¢</u>
<u>Mid Peak Rate</u>	=	=	=	=	=	<u>9.217¢</u>
<u>Off Peak Rate</u>	=	=	=	=	=	<u>6.622¢</u>

Rate R-EV

The rates for Distribution and Transmission charges are seasonal with a summer period from May 1 to September 30, and a winter period from October 1 to April 30.

February 2022 – August 2022

Per Kilowatt-Hour

<u>Peak Rate</u>	<u>18.924¢</u>
<u>Off-Peak Rate</u>	<u>8.919¢</u>

Issued: ~~December 28, 2021~~ July 6, 2022

Issued by: ~~/s/~~ Douglas W. Foley
 Douglas W. Foley

Effective: ~~February 1, 2022~~

Title: President, NH Electric Operations

Public Service Company of New Hampshire
 d/b/a Eversource Energy

Docket No. DE 20-170

Attachment 3

July 6, 2022

Page 1 of 1

Rate R-EV Rate Summary

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

		Proposed Rates (7/1/22)
	CC	\$ 16.50
Peak	Distribution	\$0.08916
	Transmission	0.08979
	RRA	-0.00032
	SCRC	0.00360
	SBC	0.00863
	ES	<u>0.18924</u>
	Total Price	\$0.38010
Off Peak	Distribution	\$0.04315
	Transmission	0.01747
	RRA	-0.00032
	SCRC	0.00360
	SBC	0.00863
	ES	<u>0.08919</u>
	Total Price	\$0.16172
	Δ price (time varying)	\$0.21838
	Δ price (all)	\$0.21838
	Peak Design Usage	17.5%
	Off-Peak Design Usage	82.5%
	Peak Period Duration (hours)	5
	Peak Period	2 pm - 7 pm
	Peak Days	M-F x/holidays

Rate R-EV - Proposed Rate Design

I. Rate Design Revenue Requirements

Distribution				Average Rate
	Total	\$	248,281,391	
	Customer*		(169,679,589)	
	Volumetric	\$	78,601,802	\$ 0.02499
Transmission		\$	94,695,072	\$ 0.03011
Generation		\$	335,536,938	\$ 0.10669
* includes local fixed costs of		\$	82,406,733	

II. Marginal Costs - Summer; 5 hours, 2 pm to 7 pm

	Peak	Off-Peak	MC Differential
	(\$/kWh)	(\$/kWh)	(\$/kWh)
Distribution (system level)	0.02102	0.00121	0.01981
Transmission	0.07727	0.00495	0.07232
Generation	0.13761	0.03756	0.10005
	0.15863	0.03877	0.11986

Rate Design Average Rate (\$/kWh, for MC-based design)	
Distribution	0.02499
Transmission (design)	0.03011
Generation	0.10669

III. TOD Rate Design

Peak Period: Summer; 5 Hours (2 pm - 7 pm)

Rate Design Billing Determinants

	kWh Usage		
	Peak	Off-Peak	Total
	549,957,946	2,595,012,889	3,144,970,835
	17%	83%	

MC-based Rate Design - Step 1

	Δ price		
Distribution	\$ 0.04134	\$ 0.02153	\$ 0.01981
Transmission	\$ 0.08979	\$ 0.01747	\$ 0.07232
Generation	\$ 0.18924	\$ 0.08919	\$ 0.10005
Sum	\$ 0.32037	\$ 0.12819	\$ 0.19218

CC Adder 1 - peak (peak kWh fixed cost allocation)

\$ 0.02620	\$ -
------------	------

CC Adder 2 - all hours (residual)

\$ 0.02162	\$ 0.02162
------------	------------

MC-based Rate Design - Step 2

	Δ price		
Distribution	\$ 0.08916	\$ 0.04315	\$ 0.04601
Transmission	0.08979	0.01747	0.07232
Generation	0.18924	0.08919	0.10005
Sum	\$ 0.17895	\$ 0.06062	\$ 0.11834

Revenue Proof

\$ 49,036,100	\$ 111,976,079	\$ 161,012,179
\$ 49,380,724	\$ 45,329,012	\$ 94,709,736
\$ 104,074,042	\$ 231,453,969	\$ 335,528,010

Public Service Company of New Hampshire
d/b/a Eversource Energy
Docket No. DE 20-170
Attachment 5
July 6, 2022
Page 1 of 1

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

Rate R-EV Bills
17% On-peak/83% Off-peak

(A)	(B)
<u>USAGE</u>	TOTAL MONTHLY BILL
<u>TOTAL ENERGY</u> (kWh)	<u>PROPOSED</u>
10	\$ 18.49
20	\$ 20.48
30	\$ 22.47
40	\$ 24.45
50	\$ 26.44
60	\$ 28.43
70	\$ 30.42
80	\$ 32.41
90	\$ 34.40
100	\$ 36.38
200	\$ 56.27
300	\$ 76.15
400	\$ 96.04
500	\$ 115.92
600	\$ 135.81
700	\$ 155.69
800	\$ 175.58
900	\$ 195.46
1,000	\$ 215.34
<hr style="border: 1px solid black;"/>	
	Proposed Rate R-EV
Customer Charge	\$ 16.50
<u>Energy Charge On Peak kWh</u>	
Distribution (incl RRA)	\$ 0.08884
Transmission	0.08979
Stranded Cost Recovery Charge	0.00360
System Benefits Charge	0.00863
<u>Energy Service Charge</u>	<u>0.18924</u>
Total per On Peak kWh	0.38010
<u>Energy Charge Off Peak kWh</u>	
Distribution (incl RRA)	\$ 0.04283
Transmission	0.01747
Stranded Cost Recovery Charge	0.00360
System Benefits Charge	0.00863
<u>Energy Service Charge</u>	<u>0.08919</u>
Total per Off Peak kWh	0.16172
% Charging On Peak	17%
% Charging Off Peak	83%

RATE EV-1: Commercial EV 3-period TOU Rate Summary

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47

Summary of Rates

Summer TOU Rates (\$/kWh)

	Peak	MidPeak	Off Peak	Reconciling Rate
Generation *	0.17472	0.09217	0.06622	0.09275
Transmission	0.05185	0.01410	0.00053	0.01338
Distribution	0.03143	0.01394	0.01050	0.01514
Combined	0.25799	0.12021	0.07725	0.12127

Winter TOU Rates (\$/kWh)

	Peak	MidPeak	Off Peak	Reconciling Rate
Generation *	0.22025	0.21626	0.21131	0.21425
Transmission	0.06709	0.00606	0.00067	0.01338
Distribution	0.01514	0.01514	0.01514	0.01514
Combined	0.30248	0.23746	0.22712	0.24277

Marginal Costs (\$/kWh)

May-Sep

Summer

	Peak	MidPeak	Off Peak
Generation	0.13761	0.05506	0.02911
Transmission	0.07727	0.01410	0.00053
Distribution	0.02102	0.00354	0.00009

Other months

Winter

	Peak	MidPeak	Off Peak
Generation	0.05201	0.04802	0.04308
Transmission	0.08715	0.00606	0.00067
Distribution	0.00000	0.00000	0.00000

TOU Periods:

Seasonality*

Summer	May through September
Winter	October through April

Time of Day:

	Weekdays	Weekends
Peak	2pm-7pm	n/a
Mid-peak	11 am-2pm; 7pm-10pm	2pm - 10pm
Off-peak	10pm-11am	10pm - 2pm

* Commercial Default Energy rates vary monthly. July 2022 and February 2022 provided above.
Current (February 2022 through July 2022) time-differentiated DE Rates are as follows:

Monthly Default Energy Service Pricing for Rate EV-1

February 2022 - July 2022 (all amounts in \$/kWh)

	Peak	MidPeak	Off Peak	Rate DE Pricing
February-2022	\$ 0.22025	\$ 0.21626	\$ 0.21131	\$ 0.21425
March-2022	\$ 0.13209	\$ 0.12810	\$ 0.12315	\$ 0.12600
April-2022	\$ 0.09580	\$ 0.09180	\$ 0.08686	\$ 0.08970
May-2022	\$ 0.15759	\$ 0.07504	\$ 0.04909	\$ 0.07605
June-2022	\$ 0.16154	\$ 0.07899	\$ 0.05304	\$ 0.07898
July-2022	\$ 0.17472	\$ 0.09217	\$ 0.06622	\$ 0.09275

Rate EV-1: Commercial EV 3-Period TOU Alternative

Marginal Costs* (all amounts in \$/kWh)

May-Sep	Summer			Other months	Winter		
	Peak	MidPeak	Off Peak		Peak	MidPeak	Off Peak
Generation	\$ 0.13761	\$ 0.05506	\$ 0.02911	\$ 0.05201	\$ 0.04802	\$ 0.04308	
Transmission	\$ 0.07727	\$ 0.01410	\$ 0.00053	\$ 0.08715	\$ 0.00606	\$ 0.00067	
Distribution	\$ 0.02102	\$ 0.00354	\$ 0.00009	\$ 0.00000	\$ 0.00000	\$ 0.00000	

*Source: Marginal cost studies updated for current costs

Class Annual Billed kWh

Summer				Winter				Annual Total
Peak	MidPeak	Off Peak	Total	Peak	MidPeak	Off Peak	Total	
127,759,609	210,270,561	394,226,850	732,257,020	157,280,883	263,382,404	512,755,520	933,418,807	1,665,675,827

Monthly Class Default Energy Service Rates, Revenue and TOU Consumption

A	B	C	D	E	F
(from Tariff)	(B = D + E + F)	(C = A x B)			

Rate DE price (\$/kWh)	TOTAL kWh		Rate Design Target Revenue		Peak kWh (input)	Mid-Peak kWh (input)	Off-Peak kWh (input)
	(input)	(calculation)	(calculation)	(calculation)			
February-2022	\$ 0.21425	124,576,983	\$ 26,690,619		21,309,373	35,533,016	67,734,595
March-2022	\$ 0.12600	134,204,461	\$ 16,909,762		21,936,331	37,718,054	74,550,076
April-2022	\$ 0.08970	126,300,355	\$ 11,329,142		20,528,063	35,509,506	70,262,786
May-2022	\$ 0.07605	137,762,150	\$ 10,476,811		24,858,872	39,188,852	73,714,425
June-2022	\$ 0.07898	139,642,597	\$ 11,028,972		23,728,668	40,380,328	75,533,601
July-2022	\$ 0.09275	156,108,816	\$ 14,479,093		27,386,582	45,103,968	83,618,265

Default Energy Service Time-differentiated Rate Design (all amounts in \$/kWh)

	Summer			Winter		
	Peak	MidPeak	Off Peak	Peak	MidPeak	Off Peak
February-2022				0.22025	0.21626	0.21131
March-2022				0.13209	0.12810	0.12315
April-2022				0.09580	0.09180	0.08686
May-2022	0.15759	0.07504	0.04909			
June-2022	0.16154	0.07899	0.05304			
July-2022	0.17472	0.09217	0.06622			

Transmission Time-Differentiated Rate Design

Avg Rate (per kWh)	\$ 0.01338
x Class kWh	1,665,675,827
= Revenue Target	\$ 22,286,743

	Summer				Winter				Total
	Peak	MidPeak	Off Peak	Total	Peak	MidPeak	Off Peak	Total	
Marginal Costs (\$/kWh)	\$ 0.07727	\$ 0.01410	\$ 0.00053	\$ 0.01782	\$ 0.08715	\$ 0.00606	\$ 0.00067	\$ 0.01676	
TOU kWh	127,759,609	210,270,561	394,226,850	732,257,020	157,280,883	263,382,404	512,755,520	933,418,807	1,665,675,827
Revenue				\$ 9,797,599				\$ 12,489,144	\$ 22,286,743
Min price = MC		\$ 0.01410	0.00053			\$ 0.00606	0.00067		
TOU Rate:	\$ 6,623,784.35	\$ 2,964,845.11	\$ 208,969.47	\$ 9,797,599	\$ 10,552,042.27	\$ 1,596,043.14	\$ 341,058.22	\$ 12,489,144	
	\$ 0.05185	\$ 0.01410	\$ 0.00053		\$ 0.06709	\$ 0.00606	\$ 0.00067		
	\$ 6,623,784	\$ 2,964,845	\$ 208,969	\$ 9,797,599	\$ 10,552,042	\$ 1,596,043	\$ 341,058	\$ 12,489,144	\$ 22,286,743
				\$ 0.01338				\$ 0.01338	

Distribution Retail Price (from Rate GV) - Annual Price Time-Differentiated Seasonally

Avg Rate (per kWh)	\$ 0.01514
x Class kWh	1,665,675,827
= Revenue Target	\$ 25,218,332

	Summer				Winter				Total
	Peak	MidPeak	Off Peak	Total	Peak	MidPeak	Off Peak	Total	
TOU Rate:	\$ 0.02102	\$ 0.00354	\$ 0.00009	\$ 0.00473	\$ 0.00000	\$ 0.00000	\$ 0.00000	\$ 0.00000	
	127,759,609	210,270,561	394,226,850	732,257,020	157,280,883	263,382,404	512,755,520	933,418,807	1,665,675,827
				\$ 11,086,371				\$ 14,131,961	\$ 25,218,332
	\$ 0.03143	\$ 0.01394	\$ 0.01050		\$ 0.01514	\$ 0.01514	\$ 0.01514		
	\$ 4,015,550	\$ 2,931,877	\$ 4,138,944	\$ 11,086,371	\$ 2,381,233	\$ 3,987,610	\$ 7,763,119	\$ 14,131,961	\$ 25,218,332
				0.01514				0.01514	

Rate EV-1 Revenue and Rate Design Targets by Function

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

CUSTOMER RATE

\$ 211.21 (from Rate GV)

DEMAND RATES

	A	B	C	D = A x .5 (50%)	E = D/B	F = A - D
	Rate GV Demand Revenue	Rate GV Billing Units	Average Rate	Rate GV Demand Revenue	50% Demand Rate	Residual Demand Revenue
Distribution	\$ 28,705,086	4,236,122	\$ 6.78	\$ 14,352,543	\$ 3.39	\$ 14,352,543
Transmission	\$ 44,564,004	4,236,122	\$ 10.52	\$ 22,282,002	\$ 5.26	\$ 22,282,002
SCRC	\$ 1,906,255	4,236,122	\$ 0.45	\$ 953,128	\$ 0.23	\$ 953,128
	\$ 75,175,345	4,236,122	\$ 17.75	\$ 37,587,673	\$ 8.87	\$ 37,587,673

VOLUMETRIC RATES (total)

	G	H	I = F	J = G + I	K = J/H
	Rate GV Volumetric Rate Revenue	Rate GV Billing Units	Residual Demand Revenue	Total Volumetric RD Revenue Target	Average Volumetric Rate (\$/kWh)
Distribution	\$ 10,869,512	1,665,675,827	\$ 14,352,543	\$ 25,222,055	\$ 0.01514 *
Transmission	-	1,665,675,827	\$ 22,282,002	22,282,002	\$ 0.01338 *
SCRC	3,364,665	1,665,675,827	\$ 953,128	4,317,793	\$ 0.00259 **
SBC	14,374,782	1,665,675,827	-	14,374,782	\$ 0.00863 **
Energy Service	154,491,433	1,665,675,827	-	154,491,433	\$ 0.09275 *
	\$ 183,100,392	1,665,675,827	\$ 37,587,673	\$ 220,688,065	\$ 0.13249

* Provides Overall Average Rate for Time Differentiation (see Attachment 7, page 1)

** All Hours Rate (SBC plus SCRC):

\$ 0.01122

Rate EV-1 Bills at Various Demand and Usage Levels

At July 2022 Rates

	Monthly Maximum Demand (kW)	Monthly Utilization (load factor)	Total Usage (all hours)	Proportion of Usage			Charging Consumption (kWh)			Monthly Bill
				Peak	Mid-Peak	Off-Peak	Peak	Mid-Peak	Off-Peak	
6	60	3%	1,314	50%	30%	20%	657	394.2	262.8	\$ 995.34
7	60	4%	1,752	50%	30%	20%	876	525.6	350.4	\$ 1,079.32
8	60	5%	2,190	50%	30%	20%	1095	657	438	\$ 1,163.30
9	60	6%	2,628	50%	30%	20%	1314	788.4	525.6	\$ 1,247.27
10	60	7%	3,066	50%	30%	20%	1533	919.8	613.2	\$ 1,331.25
11	60	8%	3,504	50%	30%	20%	1752	1051.2	700.8	\$ 1,415.23
12	60	9%	3,942	50%	30%	20%	1971	1182.6	788.4	\$ 1,499.20
13										
14	120	3%	2,628	50%	30%	20%	1314	788.4	525.6	\$ 1,779.47
15	120	4%	3,504	50%	30%	20%	1752	1051.2	700.8	\$ 1,947.43
16	120	5%	4,380	50%	30%	20%	2190	1314	876	\$ 2,115.38
17	120	6%	5,256	50%	30%	20%	2628	1576.8	1051.2	\$ 2,283.34
18	120	7%	6,132	50%	30%	20%	3066	1839.6	1226.4	\$ 2,451.29
19	120	8%	7,008	50%	30%	20%	3504	2102.4	1401.6	\$ 2,619.24
20	120	9%	7,884	50%	30%	20%	3942	2365.2	1576.8	\$ 2,787.20

RATES (effective July 1, 2022)

26	Summary Rates		
27	Customer Charge	\$ 211.21	Attachment 7 p.2
28	Demand Charge (effective)	\$ 8.87	Attachment 7 p.2
29	Volumetric Charge		
30	Peak	\$ 0.25799	Attachment 7 p.1, line 43
31	Mid-Peak	\$ 0.12021	Attachment 7 p.1, line 60
32	Off-Peak	\$ 0.07725	Attachment 7 p.1, line 76
33	Other (All Hours)	\$ 0.01122	Attachment 7 p.2

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE
ENERGY EV TOU RATE COST AND IT IMPLEMENTATION ESTIMATES**

Pursuant to Commission Order No. 26,604 in Docket No. DE 20-170, Public Service Company of New Hampshire d/b/a Eversource Energy (“Eversource” or the “Company”) has developed a residential two-period Electric Vehicle (“EV”) Time of Use (“TOU”) rate and a commercial three-period EV TOU rate. This attachment provides the associated cost and timeline estimates for implementation of each rate, as directed by the Order.

I. Two Period Residential EV TOU Rate (Rate R-EV)

A. Rate Design

Order No. 26,604 at page 26 directs the Company “to adopt a two-period time-varying rate for residential customers. The time varying generation component will only be available to Eversource default service customers. To the extent similar billing or other system changes are required in Eversource’s other utility jurisdictions, we would expect Eversource to appropriately allocate those costs resulting in lower costs to New Hampshire ratepayers.” Eversource proposes this to be Rate R-EV, and has included the rate summary as Attachment 3 of this filing; the rate design as Attachment 4; proposed rate bills as Attachment 5, and; proposed new clean and redlined tariff pages included in Attachments 1 and 2.

B. Cost Estimate and Timeline

In response to a record request identified as Exhibit 33, Eversource prepared a high-level estimate of the work required and cost to develop service plan options within its C2 billing system to implement a new, two-period residential time-of-use rate option (based on monthly peak and off-peak period kWh consumption), for three components of service: distribution, transmission, and company-supplied energy service (customers on competitive energy supply are not included in this rate design). The Company estimates that work would involve design, build, test and deployment under its C2 system and take approximately ten months after receiving Commission direction to implement the rate or six months from the time of a resourced project kick-off meeting. Eversource’s estimated cost is approximately \$600,000. For this estimate, Eversource assumed that competitive supply service billed by the Company would not be time-differentiated.

II. Three Period Commercial EV TOU Rate (Rate EV-1)

A. Rate Design

Also on page 26 of Order No. 26,604 the Commission directs Eversource “to adopt a manually billed three-period TOU rate consistent with the Settlement methodology for commercial customers.” Eversource proposes this rate as Rate EV-1, and has included the rate summary as Attachment 6; the rate design as Attachment 7; proposed rate bills as Attachment 8, and; proposed new clean and redlined tariff pages included in Attachments 1 and 2.

B. Manual Billing Process, Costs and Timeline

Eversource proposes the attached three-period EV TOU Rate (Rate EV-1) for commercial customers, consistent with the direction of Order No. 26,604. Also consistent with the Order, this rate will be manually billed, and includes the following steps:

Initial Setup:

- Work with the rate department to develop the excel template for billing
- Work with MV90 to develop report to manually provide billing determinants.
- Set up controls for data input and calculation validations.
- Test spreadsheet for billing accuracy
- Test controls
- Test usage and revenue reporting
- Test usage flow to downstream areas
- Develop annual billing schedule

Billing/MV90 process:

One time:

- Develop MV90 billing determinant report
- Train billing reps and control owners
- Fill in applicable customer data in billing spreadsheet

Monthly:

- Receive billing determinant report from MV90.
- Enter billing determinants in appropriate fields in spreadsheet.
- Bill review by control owners
- Enter usage and revenue data into C2 screen
- Manually print and mail bill

Costs:

Onetime cost include:

- Build Initial Billing Template
- Develop MV90 reporting
- Billing Training
- Billing Testing

Total onetime costs: approximately \$10,000

Monthly costs include:

- MV 90 manually providing monthly reports with required billing determinants
- Per bill cost includes calculating bill, executing controls, entering usage/revenue, printing and mailing

Total monthly costs: \$250 per bill

The new customer costs include:

- Rate template update for each new customer

Total new customer cost: \$100 per customer

Timeline*

- Rate Dept template initial development
- Testing
- Training

*The total timeline is approximately eleven weeks and is dependent on completion of revenue and usage reporting IT work.

C. IT Cost Estimate and Timeline to Support Revenue and Usage Reporting

The automation of the revenue and usage reporting will allow for direct system interface into the Company’s C2 billing system to ensure consistency, comparability, and accuracy of the data reporting requirements.

Project cost & timeline to support manual billing for Rate EV-1. This rate design and cost & timeline estimate does not include TOU generation for competitive suppliers.

Project Scope Description	Project Cost	Project Duration
Modifications to Eversource C2 billing system to support the manual data entry of monthly t Rate EV-1 billing determinants and pricing to revenue reporting: 1) Develop in C2 billing system manual data entry screen usage revenue adjustment screen a new Rate EV-1 for On-Peak, Critical-Peak, and Off-Peak Usage and pricing 2) Update revenue & regulatory accounting reports to track and report on Rate EV-1 3) Regression test Rate EV-1 usage in load settlement and load research processes	\$500,000	4 months

Project Authorization plus Project Cost Timeline

Project Authorization Funding & Project Resourcing	Requirements & Design	Build	Test	Deploy and Post Implementation	Total
Up to 4 months	1 month	1 month	1 month	1 month	4+4 = 8 months
Capital \$ Approved	\$125,000	\$125,000	\$125,000	\$125,000	\$500,000

Key Cost and Schedule Assumptions:

1. Even though a manual process will be used to translate Rate EV-1 billing determinants from a monthly report into Excel to calculate and present the bill, a core billing system change is needed for the manual data entry of usage and pricing to downstream revenue reporting. See “C. IT Cost Estimate and Timeline to Support Revenue and Usage Reporting” above.
2. If the Company were to include competitive supplier TOU generation billed by the Company it will significantly increase this estimate as the current structure with competitive suppliers only supports a one-price structure in Eversource core billing and NH EDI supplier interfaces.
3. Up to four months is needed to request funding, obtain approvals, mobilization, secure resources, kickoff (capital project authorization) before the capital project work begins. Then an additional four months is needed to complete the capital project work, for a total of eight months from the time of Commission approval and direction to implement to the time Rate EV-1 would be ready to offer to customers.