

Massachusetts Electric Company
Nantucket Electric Company
d/b/a National Grid
Electric Vehicle Program Factor Filing
D.P.U. 20-64
Exhibit NG-1
H.O. _____

JOINT PRE-FILED DIRECT TESTIMONY

of

AMY F. SOLOMON

and

MINDY ROSEN

Table of Contents

I. Introduction and Qualifications of Amy F. Solomon1

II. Introduction and Qualifications of Mindy Rosen2

III. Purpose of Testimony3

IV. Proposed Electric Vehicle Program Factor.....5

V. Eligible Costs for Recovery5

VI. Effective Date and Bill Impacts8

VII. Proposed Tariff8

VIII. Conclusion9

1 **I. Introduction and Qualifications of Amy F. Solomon**

2 **Q. Please state your full name and business address.**

3 A. My name is Amy F. Solomon. My business address is 40 Sylvan Road, Waltham, MA
4 02451.

5 **Q. By whom are you employed and in what position?**

6 A. I am a Lead Analyst of New England Revenue Requirements in the Strategy and
7 Regulation department of National Grid USA Service Company, Inc. (“NGSC”). NGSC
8 provides engineering, financial, administrative, and other technical support to subsidiary
9 companies of National Grid USA (“National Grid”). My current duties include revenue
10 requirements responsibilities for NGSC’s gas and electric distribution subsidiaries in New
11 England. These subsidiaries include Massachusetts Electric Company (“Mass. Electric”)
12 and Nantucket Electric Company (“Nantucket”) each d/b/a National Grid (collectively, the
13 “Company”).

14 **Q. Please describe your educational background and professional experience.**

15 A. I earned a Bachelor of Science in Business Management from Salem State University in
16 2000.

17 From 2000 to 2007, I worked at Oliver Wyman Company as an Accounts Payable (“AP”)
18 Coordinator, AP Supervisor, and Senior Accountant. From 2007 to 2013, I worked for
19 Randstad as a Senior Accountant. In April 2013, I joined National Grid as a Senior
20 Analyst. In 2017, I was promoted to my current position of Lead Analyst.

1 **Q. Have you previously testified before the Department of Public Utilities (the**
2 **“Department”)?**

3 A. Yes, I have submitted pre-filed testimony and testified before the Department in support
4 numerous dockets, including Gas System Enhancement Program plan and reconciliation
5 filings on behalf of the Company’s affiliates, Boston Gas Company and Colonial Gas
6 Company as well as on behalf of Mass. Electric and Nantucket Electric in base distribution
7 rate case, D.P.U. 18-150 and Grid Mod and Smart Energy Solutions filings. I have also
8 testified before the Rhode Island Public Utilities Commission for the Company’s Rhode
9 Island affiliate, The Narragansett Electric Company d/b/a National Grid.

10 **II. Introduction and Qualifications of Mindy Rosen**

11 **Q. Please state your full name and business address.**

12 A. My name is Mindy Rosen and my business address is 40 Sylvan Road, Waltham,
13 Massachusetts, 02451.

14 **Q. Please state by whom you are employed and your position.**

15 A. My position is Lead Analyst, New England Electric Pricing, in the Strategy and Regulation
16 department of NGSC. New England Electric Pricing provides rate-related services for the
17 Company.

18 **Q. Please describe your educational background and professional experience.**

19 A. I received a Bachelor of Business Administration with a major in finance from the
20 University of Missouri-Kansas City. I also received a Master of Business Administration
21 with a major in finance. I am a Certified Public Accountant, licensed in the Commonwealth

1 of Massachusetts. Prior to joining National Grid, I was the North American Operations
2 Controller for Kaymed, Inc., a multinational manufacturer. I have also been employed by
3 BTU International as the Manager of Financial Compliance with responsibilities for SEC
4 Reporting, Taxes and Sarbanes-Oxley Compliance. I also held various positions at U.S.
5 Filter Inc., starting as an Accounting Manager and progressing to Controller of a \$400
6 million division with 68 service branches nationwide and four manufacturing facilities.

7 I have been employed by NGSC since 2009. I have worked as a Lead Analyst in Revenue
8 Requirements and Pricing for New England Strategy and Regulation and Manager of
9 FERC Revenue Performance.

10 **Q. Have you previously testified before the Department?**

11 A. Yes. I have testified before the Department in support of the several filings relating to
12 Boston Gas Company and Colonial Gas Company. I have also submitted testimony to the
13 Department in support of the Company's Solar Massachusetts Renewable Target factor
14 reconciliation in D.P.U. 19-134, the proposed Vegetation Management Factor in D.P.U.
15 19-144, the Annual Retail Rate Filing in D.P.U. 20-01, and the Grid Modernization
16 CY2019 Cost Recovery Factor in D.P.U. 20-31.

17 **III. Purpose of Testimony**

18 **Q. What is the purpose of your testimony?**

19 A. The purpose of our testimony is to propose Electric Vehicle Program Factors ("EVPFs")
20 for the recovery of costs associated with the Company's Electric Vehicle Market

1 Development Program approved in D.P.U. 17-13 (“Phase I EV Program”) pursuant to the
2 Company’s Electric Vehicle Program Provision (“EVP Provision”), M.D.P.U. No. 1447.
3 The EVP Provision provides for cost recovery for (1) the Phase I EV Program and (2)
4 Phase II Electric Vehicle Program approved in D.P.U. 18-150 (“Phase II EV Program”)
5 (together, “EV Programs”). The EV Programs collectively include Company-facilitation
6 of electric vehicle service equipment (“EVSE,” also referred to as EV charging station)
7 installations, a residential Off-Peak Charging Rebate program, a Fleet Advisory Services
8 Plan, a Marketing and Communications (“M&C”) Plan and a Research and Development
9 (“R&D”) Plan associated with the Phase I EV Program, and a Direct Current Fast Charging
10 (“DCFC”) R&D Plan associated with the Phase II EV Program.

11 The EVP Provision allows the Company to recover incremental costs associated with the
12 implementation and operation of the EV Programs. Incremental capital costs include those
13 costs approved by the Department whose primary purpose is to accelerate progress in
14 achieving the objectives of the EV Programs. Incremental Operation & Maintenance
15 (“O&M”) costs include those costs approved by the Department that are demonstrated to
16 be: (1) incremental to the representative level of O&M expenses recovered through base
17 distribution rates and (2) solely attributable to preauthorized EV Programs’ expenses.

18 **Q. Are you presenting any exhibits in support of your testimony?**

19 A. Yes, we are presenting the following exhibits in addition to our testimony, identified as:

20 Exhibit NG-2 Proposed Electric Vehicle Program Factors

- 1 Exhibit NG-3 Summary – Annual Revenue Requirement
2 Exhibit NG-4 Typical Bills – Mass. Electric
3 Exhibit NG-5 Typical Bills – Nantucket Electric
4 Exhibit NG-6 Summary of Electric Delivery Service Rates Tariff - Mass Electric

5 **IV. Proposed Electric Vehicle Program Factor**

6 **Q. What is the Company proposing for its EVPFs?**

7 A. The proposed rate class specific EVPFs for usage on and after July 1, 2020 are presented
8 in Exhibit NG-2.

9 **Q. How does the Company calculate the EVPFs?**

10 A. The Company has calculated the proposed EVPFs in Exhibit NG-2 based upon the revenue
11 requirement for the O&M costs proposed for recovery in this filing. As shown in Exhibit
12 NG-2, the Company allocates the EV Program revenue requirement to rate classes using
13 the Distribution Revenue Allocator (“DRA”) approved in the Company’s most recent base
14 distribution rate case, D.P.U. 18-150. After allocating the EV Program costs to rate classes,
15 the Company divides the allocated recovery by the forecasted kWh deliveries for the
16 applicable rate class to calculate the proposed EVPF for each rate class.

17 **V. Eligible Costs for Recovery**

18 **Q. What are the total EV Program Costs the Company is seeking to recover?**

19 A. As summarized on Page 1 of Exhibit NG-3 the total amount to be recovered through the
20 proposed 2020 EVPF is approximately \$1.5 million. This is made up of the following:
21 Incremental Labor and Burdens incurred during calendar year 2019 of \$234,509; Rebates

1 of \$932,237; Evaluation costs of \$107,517; Marketing cost of \$187,239 and Technical
2 Services costs of \$2,410.

3 **Q. How did the Company determine the costs included in this filing?**

4 A. EV Program costs, including incremental labor cost, were tracked using work orders set up
5 in the Company's general accounting system specifically for EV-related cost. The costs
6 charged to those work orders were reviewed to ensure they were, in fact, incurred for the
7 purpose of the EV Program.

8 **Q. Are the EV Program costs derived in accordance with the Department's order in**
9 **D.P.U. 17-13?**

10 A. Yes. The EV Program costs included in this filing are incremental to those costs being
11 recovered through base distribution rates or any other reconciling mechanism and solely
12 attributable to EV Program expenses.

13 **Q. Is the Company providing supporting detail regarding the EV Program costs for**
14 **which it is seeking recovery in this filing?**

15 A. Yes. The supporting detail for the EV Program costs is provided in Ms. May Moy's
16 testimony, Table 1: Phase I EV Program Costs.

17 **Q. How did the Company determine the incremental labor costs included in this filing?**

18 A. The incremental labor costs included in this filing were determined by reviewing the
19 employee labor charges to the 2019 EV program to their status in the test year to ascertain
20 the percentage of their test year labor charges included in base rates. Based upon this
21 information, employees were assigned to one of the three categories defined below. The

1 first category, 100% In Base Rates, are EV employees whose costs are currently being
2 recovered in base distribution rates and, therefore, are excluded from recovery in this filing.

3 The second category, Post Test Year Hire, consists of employees hired after the test year
4 to support the EV Program. The third category, Dual Support, are employees supporting
5 EV and non-EV programs.

6 EV Labor charges for the first category, 100% In Base Rates, have been excluded from this
7 filing. EV Labor charges for the second category, Post Test Year Hires, have been included
8 in this filing. EV Labor charges for the third category, Dual Support, were determined to
9 have a percent of their labor charges included in base distribution rates. The percentage of
10 their labor charges included in base distribution rates is shown on Page 3, Column (g) of
11 Exhibit NG-3. The Company multiplied this percentage by the 2019 EV program labor
12 charges as shown in Column (f) to determine the amount of labor in base distribution rates.
13 The base distribution rate labor charges were excluded from this filing leaving only
14 incremental labor as shown in Column (i).

15 **Q. Is the Company including costs associated with its Phase II EV Program in this filing?**

16 A. No, it is not. The Phase II EV Program was just recently approved and the Company has
17 not incurred any costs associated with this component of its EV Programs during 2019.

18

1 **VI. Effective Date and Bill Impacts**

2 **Effective Date**

3 **Q. How is the Company proposing that the EVPFs presented in this filing be**
4 **implemented?**

5 A. The Company is proposing that the EVPFs presented in this filing be made effective for
6 usage on and after July 1, 2020 and that for billing purposes, pursuant to the EVP Provision,
7 appear as a separate line item on customer bills.

8 **Typical Bills**

9 **Q. Has the Company determined the impact this rate change will have on customer bills?**

10 A. Yes. Exhibit NG-4 presents the typical bills for Mass. Electric while Exhibit NG-5 presents
11 the typical bills for Nantucket Electric.

12 **Q. What is the impact of the Company's proposal on a residential Basic Service**
13 **customer's monthly bill?**

14 A. As shown in Exhibit NG-4, the impact on a Mass. Electric 600 kWh Basic Service
15 residential customer as a result of the implementation of the proposed EVPF in this filing
16 is a bill increase of \$0.07, or 0.0%, from \$144.22 to \$144.29. For a 600 kWh Nantucket
17 Electric Basic Service customer, the bill increase is \$0.07, or 0.0%, from \$147.30 to
18 \$147.37 as shown in Exhibit NG-5.

19 **VII. Proposed Tariff**

20 **Q. Is the Company providing Summary of Electric Delivery Service Rates tariffs for**
21 **Mass. Electric and Nantucket Electric showing the proposed factors in this filing?**

22 A. The Company is including a proposed Summary of Electric Delivery Service Rates tariff

1 pages effective July 1, 2020 for Mass. Electric as Exhibit NG-6. The Company has
2 proposed a change to Nantucket Electric's Cable Facilities Surcharge effective June 2020
3 and this change is current pending Department approval. Once the Department has
4 issued a decision on that proposal, the Company will submit a proposed Summary of
5 Electric Delivery Service Rates tariff pages effective July 1, 2020 for Nantucket Electric
6 as Exhibit NG-7.

7 **VIII. Conclusion**

8 **Q. Does this conclude your testimony?**

9 A. Yes, it does.

Exhibits

Exhibit NG-2	Proposed Electric Vehicle Program Factors
Exhibit NG-3	Summary - Revenue Requirement
Exhibit NG-4	Typical Bills – Mass. Electric
Exhibit NG-5	Typical Bills – Nantucket Electric
Exhibit NG-6	Summary of Electric Delivery Service Rates Tariff - Mass Electric

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Exhibit NG-2

Proposed Electric Vehicle Program Factors

Massachusetts Electric Company
Nantucket Electric Company
Electric Vehicle Program (EVP) Costs to be Recovered through
Electric Vehicle Program Factor during the period July 2020 through June 2021

(1) Phase I Electric Vehicle Program Recovery (EVPR-I)	\$1,463,912
(2) Phase II Electric Vehicle Program Recovery (EVPR-II)	\$0
(3) Past Period Reconciliation Amount (PPRA)	\$0
(4) Interest Effective July 2020 - June 2021 (i)	<u>\$15,580</u>
(5) Total Cost to Recovered through Electric Vehicle Program Factor (EVPF)	\$1,479,492

Allocation of Electric Vehicle Program Costs to Rate Classes

<u>Rate Class</u>	Distribution <u>Revenue Allocator</u> (a)	Forecasted <u>kWh</u> (b)	Allocation of <u>EVP Costs</u> (c)	Proposed <u>EVPF</u> (d)
(6) R-1/R-2	57.7%	7,524,367,161	\$853,667	\$0.00011
(7) G-1	12.9%	2,030,683,296	\$190,854	\$0.00009
(8) G-2	11.9%	2,517,055,877	\$176,060	\$0.00006
(9) G-3	16.9%	6,027,086,286	\$250,034	\$0.00004
(10) <u>Streetlighting</u>	<u>0.6%</u>	<u>103,377,250</u>	<u>\$8,877</u>	<u>\$0.00008</u>
(11) Total	100%	18,202,569,870	\$1,479,492	\$0.00008

- (1) Exhibit NG-3, Page 1, Line (6)
(4) Page 2, Line (14), Column (f)
(5) Sum of Line (1) through Line (4)
(a) Per Electric Vehicle Program Provision, M.D.P.U. No. 1447
(b) Per Company forecast for Mass. Electric and Nantucket Electric, July 2020 - June 2021
(c) Column (a), Lines (6) through (10) x Line (5)
(d) Column (c) ÷ Column (b), truncated after 5 decimal places

Massachusetts Electric Company
Nantucket Electric Company
Electric Vehicle Program Factor
Estimated Interest During Recovery Period
Effective as of July 1, 2020 through June 30, 2021

	<u>Month</u>		<u>Beginning Balance</u> (a)	<u>EVPP Recovery</u> (b)	<u>Ending Balance</u> (c)	<u>Balance Subject to Interest</u> (d)	<u>Interest Rate</u> (e)	<u>Monthly Interest</u> (f)	<u>Cumulative Interest</u> (g)
(1)	Jul-20	(i)	\$1,463,912	(\$60,996)	\$1,402,916	\$1,433,414	1.97%	\$2,332	\$2,332
(2)	Aug-20		\$1,405,248	(\$122,195)	\$1,283,053	\$1,344,151	1.97%	\$2,187	\$4,519
(3)	Sep-20		\$1,285,240	(\$122,404)	\$1,162,836	\$1,224,038	1.97%	\$1,992	\$6,511
(4)	Oct-20		\$1,164,828	(\$122,613)	\$1,042,215	\$1,103,522	1.97%	\$1,795	\$8,306
(5)	Nov-20		\$1,044,010	(\$122,825)	\$921,185	\$982,598	1.97%	\$1,599	\$9,905
(6)	Dec-20		\$922,784	(\$123,038)	\$799,746	\$861,265	1.97%	\$1,401	\$11,306
(7)	Jan-21		\$801,147	(\$123,253)	\$677,894	\$739,521	1.97%	\$1,203	\$12,509
(8)	Feb-21		\$679,097	(\$123,472)	\$555,625	\$617,361	1.97%	\$1,004	\$13,513
(9)	Mar-21		\$556,629	(\$123,695)	\$432,934	\$494,782	1.97%	\$805	\$14,318
(10)	Apr-21		\$433,739	(\$123,925)	\$309,814	\$371,777	1.97%	\$605	\$14,923
(11)	May-21		\$310,419	(\$124,168)	\$186,251	\$248,335	1.97%	\$404	\$15,327
(12)	Jun-21		\$186,655	(\$124,437)	\$62,218	\$124,437	1.97%	\$202	\$15,529
(13)	Jul-21	(ii)	\$62,420	(\$62,420)	\$0	\$31,210	1.97%	\$51	\$15,580
(14)	Total			(\$1,479,441)				\$15,580	

(i) Reflects kWhs consumed after July 1

(ii) Reflects kWhs consumed prior to July 1

(a) Page 1, Line (1) + Line (2) + Line (3)

Prior month Column (c) + Prior month Column (f)

(b) Column (a) ÷ number of months remaining in refund period

(c) Column (a) + Column (b)

(d) Average of Column (a) and Column (c)

(e) Interest rate on customer deposits

(f) Column (d) x [(1 + Column (e)) ^ (1 ÷ 12) - 1]

(g) Prior month Column (g) + Current month Column (f)

Massachusetts Electric Company
Nantucket Electric Company
d/b/a National Grid
Electric Vehicle Program Factor Filing
D.P.U. 20-64
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Exhibit NG-3

Summary - Revenue Requirement

Massachusetts Electric Company
Nantucket Electric Company
Electric Vehicle Program (EVP) Costs
Summary - Revenue Requirement 2019

(1) Total Labor and Burdens	\$234,509
(2) Rebates	\$932,237
(3) Evaluation	\$107,517
(4) Marketing	\$187,239
(5) Technical Services	\$2,410
(6) Total Costs to Recover through Electric Vehicle Program Factor (EVPF)	<u>\$1,463,912</u>

- (1) Line (1) Page 2 of 4 Line (8)
- (2) Line (2) Page 4 of 4 Line (39)
- (3) Line (3) Page 4 of 4 Line (41)
- (4) Line (4) Page 4 of 4 Line (58)
- (5) Line (5) Page 4 of 4 Line (61)
- (6) Sum of Lines (1) through (5)

Massachusetts Electric Company
 Nantucket Electric Company
 Electric Vehicle Program (EVP) Costs
 Summary - Labor and Burdens 2019

	<u>Role</u>	<u>Dollars</u>
	(a)	(b)
(1)	Support Analyst	\$11,899
(2)	Program Manager	\$111,102
(3)	Implementation Management	\$1,535
(4)	Marketing Analyst	\$13,922
(5)	Evaluation Analyst	\$1,823
(6)	Total Labor	\$140,281
(7)	Total Burdens	\$94,228
(8)	Total Labor and Burdens	\$234,509

- (1) Page (3), Line (4), Column (i)
- (2) Page (3), Line (8), Column (i)
- (3) Page (3), Line (10), Column (i)
- (4) Page (3), Line (12), Column (i)
- (5) Page (3), Line (15), Column (i)
- (6) Sum of Lines (1) through (5)
- (7) From Company Records
- (8) Line (6) + Line (7)

Massachusetts Electric Company
Nantucket Electric Company
Electric Vehicle Program (EVP) Costs
Detail - Labor 2019

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = (f) * (g)	(i) = (f) - (h)
(1)	70001088	Support Analyst	Implementation	5/2/1994	Dual Support	\$1,177	0.7%	\$9	\$1,168
(2)	70046860	Support Analyst	Implementation	9/12/2005	Dual Support	\$21	7.1%	\$1	\$19
(3)	70711787	Support Analyst	Implementation	7/1/2010	Dual Support	\$10,996	2.6%	\$284	\$10,711
(4)								Total	\$11,899
(5)	70000565	Program Manager	Implementation	8/1/1994	100% In Base Rates	\$55,599	100.0%	\$55,599	\$0
(6)	70003154	Program Manager	Implementation	4/7/1986	Dual Support	\$42,155	2.5%	\$1,049	\$41,106
(7)	70011600	Program Manager	Implementation	4/30/1999	Dual Support	\$70,156	0.2%	\$160	\$69,996
(8)								Total	\$111,102
(9)	70046635	Implementation Management	Implementation	3/21/2005	Dual Support	\$656	3.1%	\$20	\$636
(1)	71070107	Implementation Management	Implementation	9/14/1998	Dual Support	\$15,887	94.3%	\$14,987	\$900
(10)								Total	\$1,535
(11)	72031798	Marketing Analyst	Marketing	7/30/2018	Post Test Year Hires	\$13,922	0.0%	\$0	\$13,922
(12)								Total	\$13,922
(13)	71016918	Evaluation Analyst	Evaluation	7/16/2008	Dual Support	\$1,926	5.4%	\$103	\$1,823
(14)	71015650	Evaluation Analyst	Evaluation	9/14/1987	100% In Base Rates	\$3,055	100.0%	\$3,055	\$0
(15)								Total	\$1,823
(16)								Grand Total	\$140,281

Column (f) notes

Dual Support are employees working for the Company in 2017 for which a percentage of their time is not being recovered in Base Rates.

100% In Base Rates are employee's in Test Year 2017.

Post Test Year Hires are employees hired after January 1, 2018.

Massachusetts Electric Company
Nantucket Electric Company
Electric Vehicle Program (EVP) Costs
Summary - Eligible Costs for Recovery 2019

	<u>Category</u>	<u>Invoice</u>	<u>Amount</u>
	(a)	(b)	(c)
(1)	Rebates	Invoice-4922229	\$2,700
(2)	Rebates	4968451-99	\$6,850
(3)	Rebates	INV-1957 R1	\$7,248
(4)	Rebates	4943368	\$7,689
(5)	Rebates	9311258951	\$7,960
(6)	Rebates	INV-1866R3	\$8,495
(7)	Rebates	INV-1739	\$8,609
(8)	Rebates	INV 1853	\$9,201
(9)	Rebates	INV-1761R	\$11,975
(10)	Rebates	INV-1800	\$12,000
(11)	Rebates	INV 2263; INV 42304;	\$12,143
(12)	Rebates	9311258954	\$12,180
(13)	Rebates	INV-1792	\$12,500
(14)	Rebates	Inv 4963151-99TH	\$12,500
(15)	Rebates	INV 4963151-99DPW	\$12,500
(16)	Rebates	INV 4963151-99FD	\$12,500
(17)	Rebates	INV-1808	\$12,500
(18)	Rebates	8778	\$13,225
(19)	Rebates	INV-1806	\$14,000
(20)	Rebates	8797	\$14,010
(21)	Rebates	INV-1777	\$17,453
(22)	Rebates	IN55056	\$24,850
(23)	Rebates	205624	\$24,973
(24)	Rebates	4962264-99	\$25,000
(25)	Rebates	INV-1810	\$25,000
(26)	Rebates	4964568-99	\$25,000
(27)	Rebates	INV-1811	\$28,000
(28)	Rebates	INV-1805	\$28,000
(29)	Rebates	INV-1809	\$28,000
(30)	Rebates	INV-1851	\$32,000
(31)	Rebates	INV-1760	\$34,292
(32)	Rebates	03613-91022	\$40,557
(33)	Rebates	INV-1789	\$48,000
(34)	Rebates	33A, 10332A, 4646	\$48,000
(35)	Rebates	INV-1807	\$50,000
(36)	Rebates	INV-1804	\$56,000
(37)	Rebates	INV-1803	\$56,000
(38)	Rebates	INV-1852R	\$130,328
(39)			Total <u>\$932,237</u>
(40)	Evaluation	DSM174820310315	\$107,517
(41)			Total <u>\$107,517</u>
(42)	Marketing	5213484-1	\$218
(43)	Marketing	5216380-1	\$329
(44)	Marketing	121919F	\$717
(45)	Marketing	Mower 1002562768 2019	\$2,000
(46)	Marketing	231414	\$2,000
(47)	Marketing	Mower 1002562764 2019	\$2,060
(48)	Marketing	Mower 72025975. 00129369 & 00121009	\$5,381
(49)	Marketing	229839	\$5,930
(50)	Marketing	229840	\$6,651
(51)	Marketing	231413	\$8,440
(52)	Marketing	Mower 1002562761 2019	\$10,454
(53)	Marketing	228045	\$10,793
(54)	Marketing	249	\$15,000
(55)	Marketing	228800	\$20,101
(56)	Marketing	227577	\$24,164
(57)	Marketing	228777	\$73,000
(58)			Total <u>\$187,239</u>
(59)	Technical Services	INV-1773	\$750
(60)	Technical Services	193694	\$1,660
(61)			Total <u>\$2,410</u>
(62)			Grand Total <u><u>\$1,229,403</u></u>

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Exhibit NG-4

Typical Bills – Mass. Electric

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill- Index

Description	Reference
Calculation of Monthly Typical Bill- Index	Page 1 of 17
Impact on R-1 Basic Service Customers	Page 2 of 17
Impact on R-2 Basic Service Customers	Page 3 of 17
Impact on G-1 Basic Service Customers	Page 4 of 17
Impact on G-2 Basic Service Customers Hours of Use: 200	Page 5 of 17
Impact on G-2 Basic Service Customers Hours of Use: 250	Page 6 of 17
Impact on G-2 Basic Service Customers Hours of Use: 300	Page 7 of 17
Impact on G-2 Basic Service Customers Hours of Use: 350	Page 8 of 17
Impact on G-2 Basic Service Customers Hours of Use: 400	Page 9 of 17
Impact on G-2 Basic Service Customers Hours of Use: 450	Page 10 of 17
Impact on G-3 Basic Service Customers Hours of Use: 250	Page 11 of 17
Impact on G-3 Basic Service Customers Hours of Use: 300	Page 12 of 17
Impact on G-3 Basic Service Customers Hours of Use: 350	Page 13 of 17
Impact on G-3 Basic Service Customers Hours of Use: 400	Page 14 of 17
Impact on G-3 Basic Service Customers Hours of Use: 450	Page 15 of 17
Impact on G-3 Basic Service Customers Hours of Use: 500	Page 16 of 17
Impact on S-5 Basic Service Customers	Page 17 of 17

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on R-1 Basic Service Customers

Monthly KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
	Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
125	\$35.58	\$12.37	\$23.21	\$35.59	\$12.37	\$23.22	\$0.01	0.0%
250	\$64.19	\$24.75	\$39.44	\$64.22	\$24.75	\$39.47	\$0.03	0.0%
500	\$121.35	\$49.49	\$71.86	\$121.41	\$49.49	\$71.92	\$0.06	0.0%
600	\$144.22	\$59.39	\$84.83	\$144.29	\$59.39	\$84.90	\$0.07	0.0%
750	\$178.53	\$74.24	\$104.29	\$178.61	\$74.24	\$104.37	\$0.08	0.0%
1,000	\$235.69	\$98.98	\$136.71	\$235.80	\$98.98	\$136.82	\$0.11	0.0%
1,250	\$292.88	\$123.73	\$169.15	\$293.02	\$123.73	\$169.29	\$0.14	0.0%
1,500	\$350.04	\$148.47	\$201.57	\$350.21	\$148.47	\$201.74	\$0.17	0.0%
2,000	\$464.38	\$197.96	\$266.42	\$464.60	\$197.96	\$266.64	\$0.22	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$7.00	\$7.00
Distribution Charge - All kWh (1)	kWh x \$0.07423	\$0.07423
Transition Charge	kWh x (\$0.00086)	(\$0.00086)
Transmission Charge	kWh x \$0.03130	\$0.03130
SMART Charge	kWh x \$0.00356	\$0.00356
Electric Vehical Program Charge	kWh x \$0.00000	\$0.00011
Energy Efficiency Charge	kWh x \$0.02098	\$0.02098
Renewables Charge	kWh x \$0.00050	\$0.00050
<u>Supplier Services</u>		
Basic Service Charge (2)	kWh x \$0.09898	\$0.09898

(1) Includes: Basic Service Adjustment Factor -0.033¢, Residential Assistance Adjustment Factor 0.614¢, Storm Fund Replenishment Adjustment Factor 0.301¢, Pension/PBOP Adjustment Factor 0.182¢, RDM Adjustment Factor 0.251¢, Attorney General Consultant Expense Factor 0.006¢, Solar Cost Adjustment Factor -0.005¢, Smart Grid Distribution Adjustment Factor 0.008¢, Net Metering Recovery Surcharge 1.061¢, CapEx Factor 0.41¢, Tax Act Credit Factor -0.067¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.024¢ and Grid Modernization Factor 0.032¢

(2) Includes: Basic Service Administrative Cost Factor 0.011¢, and Smart Grid Customer Cost Adjustment Factor, 0.412¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on R-2 Basic Service Customers

Monthly KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
	Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
125	\$22.83	\$12.37	\$10.46	\$22.83	\$12.37	\$10.46	\$0.00	0.0%
250	\$40.90	\$24.75	\$16.15	\$40.92	\$24.75	\$16.17	\$0.02	0.0%
500	\$77.04	\$49.49	\$27.55	\$77.08	\$49.49	\$27.59	\$0.04	0.1%
600	\$91.49	\$59.39	\$32.10	\$91.53	\$59.39	\$32.14	\$0.04	0.0%
750	\$113.17	\$74.24	\$38.93	\$113.23	\$74.24	\$38.99	\$0.06	0.1%
1,000	\$149.31	\$98.98	\$50.33	\$149.38	\$98.98	\$50.40	\$0.07	0.0%
1,250	\$185.45	\$123.73	\$61.72	\$185.54	\$123.73	\$61.81	\$0.09	0.0%
1,500	\$221.58	\$148.47	\$73.11	\$221.70	\$148.47	\$73.23	\$0.12	0.1%
2,000	\$293.86	\$197.96	\$95.90	\$294.00	\$197.96	\$96.04	\$0.14	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$7.00	\$7.00
Distribution Charge - All kWh (1)	kWh x \$0.07423	\$0.07423
Transition Charge	kWh x (\$0.00086)	(\$0.00086)
Transmission Charge	kWh x \$0.03130	\$0.03130
SMART Charge	kWh x \$0.00356	\$0.00356
Electric Vehical Program Charge	kWh x \$0.00000	\$0.00011
Energy Efficiency Charge	kWh x \$0.00486	\$0.00486
Renewables Charge	kWh x \$0.00050	\$0.00050
Discount	32.00%	32.00%
<u>Supplier Services</u>		
Basic Service Charge (2)	kWh x \$0.09898	\$0.09898

(1) Includes: Basic Service Adjustment Factor -0.033¢, Residential Assistance Adjustment Factor 0.614¢, Storm Fund Replenishment Adjustment Factor 0.301¢, Pension/PBOP Adjustment Factor 0.182¢, RDM Adjustment Factor 0.251¢, Attorney General Consultant Expense Factor 0.006¢, Solar Cost Adjustment Factor -0.005¢, Smart Grid Distribution Adjustment Factor 0.008¢, Net Metering Recovery Surcharge 1.061¢, CapEx Factor 0.41¢, Tax Act Credit Factor -0.067¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.024¢ and Grid Modernization Factor 0.032¢

(2) Includes: Basic Service Administrative Cost Factor 0.011¢, and Smart Grid Customer Cost Adjustment Factor, 0.412¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-1 Basic Service Customers

Monthly KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
	Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
50	\$19.20	\$4.21	\$14.99	\$19.20	\$4.21	\$14.99	\$0.00	0.0%
100	\$28.38	\$8.43	\$19.95	\$28.39	\$8.43	\$19.96	\$0.01	0.0%
250	\$55.97	\$21.07	\$34.90	\$55.99	\$21.07	\$34.92	\$0.02	0.0%
500	\$101.92	\$42.14	\$59.78	\$101.97	\$42.14	\$59.83	\$0.05	0.0%
1,500	\$285.75	\$126.42	\$159.33	\$285.89	\$126.42	\$159.47	\$0.14	0.0%
2,500	\$469.58	\$210.70	\$258.88	\$469.81	\$210.70	\$259.11	\$0.23	0.0%
5,000	\$929.15	\$421.40	\$507.75	\$929.60	\$421.40	\$508.20	\$0.45	0.0%
7,500	\$1,388.73	\$632.10	\$756.63	\$1,389.41	\$632.10	\$757.31	\$0.68	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$10.00	\$10.00
Distribution Charge - All kWh (1)	kWh x	\$0.06420	\$0.06420
Transition Charge	kWh x	(\$0.00087)	(\$0.00087)
Transmission Charge	kWh x	\$0.02311	\$0.02311
SMART Charge	kWh x	\$0.00294	\$0.00294
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00009
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	kWh x	\$0.08428	\$0.08428
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(1) Includes: Basic Service Adjustment Factor -0.027¢, Residential Assistance Adjustment Factor 0.508¢, Storm Fund Replenishment Adjustment Factor 0.265¢, Pension/PBOP Adjustment Factor 0.157¢, RDM Adjustment Factor 0.207¢, Attorney General Consultant Expense Factor 0.005¢, Solar Cost Adjustment Factor -0.004¢, Smart Grid Distribution Adjustment Factor 0.007¢, Net Metering Recovery Surcharge 0.878¢, CapEx Factor 0.323¢, Tax Act Credit Factor -0.055¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.023¢, and Grid Modernization Factor 0.026¢

(2) Includes: Basic Service Administrative Cost Factor 0.01¢, and Smart Grid Customer Cost Adjustment Factor, 0.209¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 200

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	3,000	\$603.66	\$251.79	\$351.87	\$603.84	\$251.79	\$352.05	\$0.18	0.0%
20	4,000	\$794.88	\$335.72	\$459.16	\$795.12	\$335.72	\$459.40	\$0.24	0.0%
40	8,000	\$1,559.76	\$671.44	\$888.32	\$1,560.24	\$671.44	\$888.80	\$0.48	0.0%
75	15,000	\$2,898.30	\$1,258.95	\$1,639.35	\$2,899.20	\$1,258.95	\$1,640.25	\$0.90	0.0%
150	30,000	\$5,766.60	\$2,517.90	\$3,248.70	\$5,768.40	\$2,517.90	\$3,250.50	\$1.80	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
15	3,000	\$593.97	\$242.10	\$351.87	\$594.15	\$242.10	\$352.05	\$0.18	0.0%
20	4,000	\$781.96	\$322.80	\$459.16	\$782.20	\$322.80	\$459.40	\$0.24	0.0%
40	8,000	\$1,533.92	\$645.60	\$888.32	\$1,534.40	\$645.60	\$888.80	\$0.48	0.0%
75	15,000	\$2,849.85	\$1,210.50	\$1,639.35	\$2,850.75	\$1,210.50	\$1,640.25	\$0.90	0.0%
150	30,000	\$5,669.70	\$2,421.00	\$3,248.70	\$5,671.50	\$2,421.00	\$3,250.50	\$1.80	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
15	3,000	\$591.72	\$239.85	\$351.87	\$591.90	\$239.85	\$352.05	\$0.18	0.0%
20	4,000	\$778.96	\$319.80	\$459.16	\$779.20	\$319.80	\$459.40	\$0.24	0.0%
40	8,000	\$1,527.92	\$639.60	\$888.32	\$1,528.40	\$639.60	\$888.80	\$0.48	0.0%
75	15,000	\$2,838.60	\$1,199.25	\$1,639.35	\$2,839.50	\$1,199.25	\$1,640.25	\$0.90	0.0%
150	30,000	\$5,647.20	\$2,398.50	\$3,248.70	\$5,649.00	\$2,398.50	\$3,250.50	\$1.80	0.0%

Present Rates

Proposed Rates

Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	KW x	\$10.60	\$10.60
Distribution Charge (1)	KWh x	\$0.01996	\$0.01996
Transition Charge	KWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	KWh x	\$0.02283	\$0.02283
SMART Charge	KWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Service

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢ ,and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 250

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	3,750	\$707.32	\$314.74	\$392.58	\$707.55	\$314.74	\$392.81	\$0.23	0.0%
20	5,000	\$933.10	\$419.65	\$513.45	\$933.40	\$419.65	\$513.75	\$0.30	0.0%
40	10,000	\$1,836.20	\$839.30	\$996.90	\$1,836.80	\$839.30	\$997.50	\$0.60	0.0%
75	18,750	\$3,416.62	\$1,573.69	\$1,842.93	\$3,417.75	\$1,573.69	\$1,844.06	\$1.13	0.0%
150	37,500	\$6,803.27	\$3,147.38	\$3,655.89	\$6,805.52	\$3,147.38	\$3,658.14	\$2.25	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
15	3,750	\$695.21	\$302.63	\$392.58	\$695.44	\$302.63	\$392.81	\$0.23	0.0%
20	5,000	\$916.95	\$403.50	\$513.45	\$917.25	\$403.50	\$513.75	\$0.30	0.0%
40	10,000	\$1,803.90	\$807.00	\$996.90	\$1,804.50	\$807.00	\$997.50	\$0.60	0.0%
75	18,750	\$3,356.06	\$1,513.13	\$1,842.93	\$3,357.19	\$1,513.13	\$1,844.06	\$1.13	0.0%
150	37,500	\$6,682.14	\$3,026.25	\$3,655.89	\$6,684.39	\$3,026.25	\$3,658.14	\$2.25	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
15	3,750	\$692.39	\$299.81	\$392.58	\$692.62	\$299.81	\$392.81	\$0.23	0.0%
20	5,000	\$913.20	\$399.75	\$513.45	\$913.50	\$399.75	\$513.75	\$0.30	0.0%
40	10,000	\$1,796.40	\$799.50	\$996.90	\$1,797.00	\$799.50	\$997.50	\$0.60	0.0%
75	18,750	\$3,341.99	\$1,499.06	\$1,842.93	\$3,343.12	\$1,499.06	\$1,844.06	\$1.13	0.0%
150	37,500	\$6,654.02	\$2,998.13	\$3,655.89	\$6,656.27	\$2,998.13	\$3,658.14	\$2.25	0.0%

Present Rates

Proposed Rates

Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	KW x	\$10.60	\$10.60
Distribution Charge (1)	KWh x	\$0.01996	\$0.01996
Transition Charge	KWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	KWh x	\$0.02283	\$0.02283
SMART Charge	KWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00000
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 300

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	4,500	\$811.01	\$377.69	\$433.32	\$811.28	\$377.69	\$433.59	\$0.27	0.0%
20	6,000	\$1,071.32	\$503.58	\$567.74	\$1,071.68	\$503.58	\$568.10	\$0.36	0.0%
40	12,000	\$2,112.64	\$1,007.16	\$1,105.48	\$2,113.36	\$1,007.16	\$1,106.20	\$0.72	0.0%
75	22,500	\$3,934.97	\$1,888.43	\$2,046.54	\$3,936.32	\$1,888.43	\$2,047.89	\$1.35	0.0%
150	45,000	\$7,839.90	\$3,776.85	\$4,063.05	\$7,842.60	\$3,776.85	\$4,065.75	\$2.70	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
15	4,500	\$796.47	\$363.15	\$433.32	\$796.74	\$363.15	\$433.59	\$0.27	0.0%
20	6,000	\$1,051.94	\$484.20	\$567.74	\$1,052.30	\$484.20	\$568.10	\$0.36	0.0%
40	12,000	\$2,073.88	\$968.40	\$1,105.48	\$2,074.60	\$968.40	\$1,106.20	\$0.72	0.0%
75	22,500	\$3,862.29	\$1,815.75	\$2,046.54	\$3,863.64	\$1,815.75	\$2,047.89	\$1.35	0.0%
150	45,000	\$7,694.55	\$3,631.50	\$4,063.05	\$7,697.25	\$3,631.50	\$4,065.75	\$2.70	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
15	4,500	\$793.10	\$359.78	\$433.32	\$793.37	\$359.78	\$433.59	\$0.27	0.0%
20	6,000	\$1,047.44	\$479.70	\$567.74	\$1,047.80	\$479.70	\$568.10	\$0.36	0.0%
40	12,000	\$2,064.88	\$959.40	\$1,105.48	\$2,065.60	\$959.40	\$1,106.20	\$0.72	0.0%
75	22,500	\$3,845.42	\$1,798.88	\$2,046.54	\$3,846.77	\$1,798.88	\$2,047.89	\$1.35	0.0%
150	45,000	\$7,660.80	\$3,597.75	\$4,063.05	\$7,663.50	\$3,597.75	\$4,065.75	\$2.70	0.0%

Present Rates

Proposed Rates

Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	KW x	\$10.60	\$10.60
Distribution Charge (1)	KWh x	\$0.01996	\$0.01996
Transition Charge	KWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	KWh x	\$0.02283	\$0.02283
SMART Charge	KWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00000
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 350

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	5,250	\$914.66	\$440.63	\$474.03	\$914.98	\$440.63	\$474.35	\$0.32	0.0%
20	7,000	\$1,209.54	\$587.51	\$622.03	\$1,209.96	\$587.51	\$622.45	\$0.42	0.0%
40	14,000	\$2,389.08	\$1,175.02	\$1,214.06	\$2,389.92	\$1,175.02	\$1,214.90	\$0.84	0.0%
75	26,250	\$4,453.28	\$2,203.16	\$2,250.12	\$4,454.86	\$2,203.16	\$2,251.70	\$1.58	0.0%
150	52,500	\$8,876.57	\$4,406.33	\$4,470.24	\$8,879.72	\$4,406.33	\$4,473.39	\$3.15	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
15	5,250	\$897.71	\$423.68	\$474.03	\$898.03	\$423.68	\$474.35	\$0.32	0.0%
20	7,000	\$1,186.93	\$564.90	\$622.03	\$1,187.35	\$564.90	\$622.45	\$0.42	0.0%
40	14,000	\$2,343.86	\$1,129.80	\$1,214.06	\$2,344.70	\$1,129.80	\$1,214.90	\$0.84	0.0%
75	26,250	\$4,368.50	\$2,118.38	\$2,250.12	\$4,370.08	\$2,118.38	\$2,251.70	\$1.58	0.0%
150	52,500	\$8,706.99	\$4,236.75	\$4,470.24	\$8,710.14	\$4,236.75	\$4,473.39	\$3.15	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
15	5,250	\$893.77	\$419.74	\$474.03	\$894.09	\$419.74	\$474.35	\$0.32	0.0%
20	7,000	\$1,181.68	\$559.65	\$622.03	\$1,182.10	\$559.65	\$622.45	\$0.42	0.0%
40	14,000	\$2,333.36	\$1,119.30	\$1,214.06	\$2,334.20	\$1,119.30	\$1,214.90	\$0.84	0.0%
75	26,250	\$4,348.81	\$2,098.69	\$2,250.12	\$4,350.39	\$2,098.69	\$2,251.70	\$1.58	0.0%
150	52,500	\$8,667.62	\$4,197.38	\$4,470.24	\$8,670.77	\$4,197.38	\$4,473.39	\$3.15	0.0%

Present Rates

Proposed Rates

Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	KW x	\$10.60	\$10.60
Distribution Charge (1)	KWh x	\$0.01996	\$0.01996
Transition Charge	KWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	KWh x	\$0.02283	\$0.02283
SMART Charge	KWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢ ,and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 400

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	6,000	\$1,018.32	\$503.58	\$514.74	\$1,018.68	\$503.58	\$515.10	\$0.36	0.0%
20	8,000	\$1,347.76	\$671.44	\$676.32	\$1,348.24	\$671.44	\$676.80	\$0.48	0.0%
40	16,000	\$2,665.52	\$1,342.88	\$1,322.64	\$2,666.48	\$1,342.88	\$1,323.60	\$0.96	0.0%
75	30,000	\$4,971.60	\$2,517.90	\$2,453.70	\$4,973.40	\$2,517.90	\$2,455.50	\$1.80	0.0%
150	60,000	\$9,913.20	\$5,035.80	\$4,877.40	\$9,916.80	\$5,035.80	\$4,881.00	\$3.60	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
15	6,000	\$998.94	\$484.20	\$514.74	\$999.30	\$484.20	\$515.10	\$0.36	0.0%
20	8,000	\$1,321.92	\$645.60	\$676.32	\$1,322.40	\$645.60	\$676.80	\$0.48	0.0%
40	16,000	\$2,613.84	\$1,291.20	\$1,322.64	\$2,614.80	\$1,291.20	\$1,323.60	\$0.96	0.0%
75	30,000	\$4,874.70	\$2,421.00	\$2,453.70	\$4,876.50	\$2,421.00	\$2,455.50	\$1.80	0.0%
150	60,000	\$9,719.40	\$4,842.00	\$4,877.40	\$9,723.00	\$4,842.00	\$4,881.00	\$3.60	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
15	6,000	\$994.44	\$479.70	\$514.74	\$994.80	\$479.70	\$515.10	\$0.36	0.0%
20	8,000	\$1,315.92	\$639.60	\$676.32	\$1,316.40	\$639.60	\$676.80	\$0.48	0.0%
40	16,000	\$2,601.84	\$1,279.20	\$1,322.64	\$2,602.80	\$1,279.20	\$1,323.60	\$0.96	0.0%
75	30,000	\$4,852.20	\$2,398.50	\$2,453.70	\$4,854.00	\$2,398.50	\$2,455.50	\$1.80	0.0%
150	60,000	\$9,674.40	\$4,797.00	\$4,877.40	\$9,678.00	\$4,797.00	\$4,881.00	\$3.60	0.0%

Present Rates

Proposed Rates

Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	KW x	\$10.60	\$10.60
Distribution Charge (1)	KWh x	\$0.01996	\$0.01996
Transition Charge	KWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	KWh x	\$0.02283	\$0.02283
SMART Charge	KWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢ ,and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 450

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	6,750	\$1,121.98	\$566.53	\$555.45	\$1,122.39	\$566.53	\$555.86	\$0.41	0.0%
20	9,000	\$1,485.98	\$755.37	\$730.61	\$1,486.52	\$755.37	\$731.15	\$0.54	0.0%
40	18,000	\$2,941.96	\$1,510.74	\$1,431.22	\$2,943.04	\$1,510.74	\$1,432.30	\$1.08	0.0%
75	33,750	\$5,489.92	\$2,832.64	\$2,657.28	\$5,491.95	\$2,832.64	\$2,659.31	\$2.03	0.0%
150	67,500	\$10,949.87	\$5,665.28	\$5,284.59	\$10,953.92	\$5,665.28	\$5,288.64	\$4.05	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
15	6,750	\$1,100.18	\$544.73	\$555.45	\$1,100.59	\$544.73	\$555.86	\$0.41	0.0%
20	9,000	\$1,456.91	\$726.30	\$730.61	\$1,457.45	\$726.30	\$731.15	\$0.54	0.0%
40	18,000	\$2,883.82	\$1,452.60	\$1,431.22	\$2,884.90	\$1,452.60	\$1,432.30	\$1.08	0.0%
75	33,750	\$5,380.91	\$2,723.63	\$2,657.28	\$5,382.94	\$2,723.63	\$2,659.31	\$2.03	0.0%
150	67,500	\$10,731.84	\$5,447.25	\$5,284.59	\$10,735.89	\$5,447.25	\$5,288.64	\$4.05	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
15	6,750	\$1,095.11	\$539.66	\$555.45	\$1,095.52	\$539.66	\$555.86	\$0.41	0.0%
20	9,000	\$1,450.16	\$719.55	\$730.61	\$1,450.70	\$719.55	\$731.15	\$0.54	0.0%
40	18,000	\$2,870.32	\$1,439.10	\$1,431.22	\$2,871.40	\$1,439.10	\$1,432.30	\$1.08	0.0%
75	33,750	\$5,355.59	\$2,698.31	\$2,657.28	\$5,357.62	\$2,698.31	\$2,659.31	\$2.03	0.0%
150	67,500	\$10,681.22	\$5,396.63	\$5,284.59	\$10,685.27	\$5,396.63	\$5,288.64	\$4.05	0.0%

Present Rates

Proposed Rates

Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	KW x	\$10.60	\$10.60
Distribution Charge (1)	KWh x	\$0.01996	\$0.01996
Transition Charge	KWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	KWh x	\$0.02283	\$0.02283
SMART Charge	KWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢ ,and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 250
KWh Split: - On-Peak 55%
- Off-Peak 45%

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	150,000	\$24,054.63	\$12,589.50	\$11,465.13	\$24,060.63	\$12,589.50	\$11,471.13	\$6.00	0.0%
800	200,000	\$31,998.50	\$16,786.00	\$15,212.50	\$32,006.50	\$16,786.00	\$15,220.50	\$8.00	0.0%
1,000	250,000	\$39,942.38	\$20,982.50	\$18,959.88	\$39,952.38	\$20,982.50	\$18,969.88	\$10.00	0.0%
1,500	375,000	\$59,802.07	\$31,473.75	\$28,328.32	\$59,817.07	\$31,473.75	\$28,343.32	\$15.00	0.0%
3,000	750,000	\$119,381.13	\$62,947.50	\$56,433.63	\$119,411.13	\$62,947.50	\$56,463.63	\$30.00	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
600	150,000	\$23,570.13	\$12,105.00	\$11,465.13	\$23,576.13	\$12,105.00	\$11,471.13	\$6.00	0.0%
800	200,000	\$31,352.50	\$16,140.00	\$15,212.50	\$31,360.50	\$16,140.00	\$15,220.50	\$8.00	0.0%
1,000	250,000	\$39,134.88	\$20,175.00	\$18,959.88	\$39,144.88	\$20,175.00	\$18,969.88	\$10.00	0.0%
1,500	375,000	\$58,590.82	\$30,262.50	\$28,328.32	\$58,605.82	\$30,262.50	\$28,343.32	\$15.00	0.0%
3,000	750,000	\$116,958.63	\$60,525.00	\$56,433.63	\$116,988.63	\$60,525.00	\$56,463.63	\$30.00	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
600	150,000	\$23,457.63	\$11,992.50	\$11,465.13	\$23,463.63	\$11,992.50	\$11,471.13	\$6.00	0.0%
800	200,000	\$31,202.50	\$15,990.00	\$15,212.50	\$31,210.50	\$15,990.00	\$15,220.50	\$8.00	0.0%
1,000	250,000	\$38,947.38	\$19,987.50	\$18,959.88	\$38,957.38	\$19,987.50	\$18,969.88	\$10.00	0.0%
1,500	375,000	\$58,309.57	\$29,981.25	\$28,328.32	\$58,324.57	\$29,981.25	\$28,343.32	\$15.00	0.0%
3,000	750,000	\$116,396.13	\$59,962.50	\$56,433.63	\$116,426.13	\$59,962.50	\$56,463.63	\$30.00	0.0%

Present Rates

Proposed Rates

Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	KW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	KWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	KWh x	\$0.01097	\$0.01097
Transition Charge	KWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	KWh x	\$0.02204	\$0.02204
SMART Charge	KWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 300
KWh Split: - On-Peak 50%
- Off-Peak 50%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	180,000	\$27,894.10	\$15,107.40	\$12,786.70	\$27,901.30	\$15,107.40	\$12,793.90	\$7.20	0.0%
800	240,000	\$37,117.80	\$20,143.20	\$16,974.60	\$37,127.40	\$20,143.20	\$16,984.20	\$9.60	0.0%
1,000	300,000	\$46,341.50	\$25,179.00	\$21,162.50	\$46,353.50	\$25,179.00	\$21,174.50	\$12.00	0.0%
1,500	450,000	\$69,400.75	\$37,768.50	\$31,632.25	\$69,418.75	\$37,768.50	\$31,650.25	\$18.00	0.0%
3,000	900,000	\$138,578.50	\$75,537.00	\$63,041.50	\$138,614.50	\$75,537.00	\$63,077.50	\$36.00	0.0%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
600	180,000	\$27,312.70	\$14,526.00	\$12,786.70	\$27,319.90	\$14,526.00	\$12,793.90	\$7.20	0.0%
800	240,000	\$36,342.60	\$19,368.00	\$16,974.60	\$36,352.20	\$19,368.00	\$16,984.20	\$9.60	0.0%
1,000	300,000	\$45,372.50	\$24,210.00	\$21,162.50	\$45,384.50	\$24,210.00	\$21,174.50	\$12.00	0.0%
1,500	450,000	\$67,947.25	\$36,315.00	\$31,632.25	\$67,965.25	\$36,315.00	\$31,650.25	\$18.00	0.0%
3,000	900,000	\$135,671.50	\$72,630.00	\$63,041.50	\$135,707.50	\$72,630.00	\$63,077.50	\$36.00	0.0%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
600	180,000	\$27,177.70	\$14,391.00	\$12,786.70	\$27,184.90	\$14,391.00	\$12,793.90	\$7.20	0.0%
800	240,000	\$36,162.60	\$19,188.00	\$16,974.60	\$36,172.20	\$19,188.00	\$16,984.20	\$9.60	0.0%
1,000	300,000	\$45,147.50	\$23,985.00	\$21,162.50	\$45,159.50	\$23,985.00	\$21,174.50	\$12.00	0.0%
1,500	450,000	\$67,609.75	\$35,977.50	\$31,632.25	\$67,627.75	\$35,977.50	\$31,650.25	\$18.00	0.0%
3,000	900,000	\$134,996.50	\$71,955.00	\$63,041.50	\$135,032.50	\$71,955.00	\$63,077.50	\$36.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	KW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	KWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	KWh x	\$0.01097	\$0.01097
Transition Charge	KWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	KWh x	\$0.02204	\$0.02204
SMART Charge	KWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 350
KWh Split: - On-Peak 50%
- Off-Peak 50%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	210,000	\$31,745.95	\$17,625.30	\$14,120.65	\$31,754.35	\$17,625.30	\$14,129.05	\$8.40	0.0%
800	280,000	\$42,253.60	\$23,500.40	\$18,753.20	\$42,264.80	\$23,500.40	\$18,764.40	\$11.20	0.0%
1,000	350,000	\$52,761.25	\$29,375.50	\$23,385.75	\$52,775.25	\$29,375.50	\$23,399.75	\$14.00	0.0%
1,500	525,000	\$79,030.38	\$44,063.25	\$34,967.13	\$79,051.38	\$44,063.25	\$34,988.13	\$21.00	0.0%
3,000	1,050,000	\$157,837.75	\$88,126.50	\$69,711.25	\$157,879.75	\$88,126.50	\$69,753.25	\$42.00	0.0%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
600	210,000	\$31,067.65	\$16,947.00	\$14,120.65	\$31,076.05	\$16,947.00	\$14,129.05	\$8.40	0.0%
800	280,000	\$41,349.20	\$22,596.00	\$18,753.20	\$41,360.40	\$22,596.00	\$18,764.40	\$11.20	0.0%
1,000	350,000	\$51,630.75	\$28,245.00	\$23,385.75	\$51,644.75	\$28,245.00	\$23,399.75	\$14.00	0.0%
1,500	525,000	\$77,334.63	\$42,367.50	\$34,967.13	\$77,355.63	\$42,367.50	\$34,988.13	\$21.00	0.0%
3,000	1,050,000	\$154,446.25	\$84,735.00	\$69,711.25	\$154,488.25	\$84,735.00	\$69,753.25	\$42.00	0.0%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
600	210,000	\$30,910.15	\$16,789.50	\$14,120.65	\$30,918.55	\$16,789.50	\$14,129.05	\$8.40	0.0%
800	280,000	\$41,139.20	\$22,386.00	\$18,753.20	\$41,150.40	\$22,386.00	\$18,764.40	\$11.20	0.0%
1,000	350,000	\$51,368.25	\$27,982.50	\$23,385.75	\$51,382.25	\$27,982.50	\$23,399.75	\$14.00	0.0%
1,500	525,000	\$76,940.88	\$41,973.75	\$34,967.13	\$76,961.88	\$41,973.75	\$34,988.13	\$21.00	0.0%
3,000	1,050,000	\$153,658.75	\$83,947.50	\$69,711.25	\$153,700.75	\$83,947.50	\$69,753.25	\$42.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	KW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	KWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	KWh x	\$0.01097	\$0.01097
Transition Charge	KWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	KWh x	\$0.02204	\$0.02204
SMART Charge	KWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 400
KWh Split: - On-Peak 45%
- Off-Peak 55%

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	240,000	\$35,578.00	\$20,143.20	\$15,434.80	\$35,587.60	\$20,143.20	\$15,444.40	\$9.60	0.0%
800	320,000	\$47,363.00	\$26,857.60	\$20,505.40	\$47,375.80	\$26,857.60	\$20,518.20	\$12.80	0.0%
1,000	400,000	\$59,148.00	\$33,572.00	\$25,576.00	\$59,164.00	\$33,572.00	\$25,592.00	\$16.00	0.0%
1,500	600,000	\$88,610.50	\$50,358.00	\$38,252.50	\$88,634.50	\$50,358.00	\$38,276.50	\$24.00	0.0%
3,000	1,200,000	\$176,998.00	\$100,716.00	\$76,282.00	\$177,046.00	\$100,716.00	\$76,330.00	\$48.00	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
600	240,000	\$34,802.80	\$19,368.00	\$15,434.80	\$34,812.40	\$19,368.00	\$15,444.40	\$9.60	0.0%
800	320,000	\$46,329.40	\$25,824.00	\$20,505.40	\$46,342.20	\$25,824.00	\$20,518.20	\$12.80	0.0%
1,000	400,000	\$57,856.00	\$32,280.00	\$25,576.00	\$57,872.00	\$32,280.00	\$25,592.00	\$16.00	0.0%
1,500	600,000	\$86,672.50	\$48,420.00	\$38,252.50	\$86,696.50	\$48,420.00	\$38,276.50	\$24.00	0.0%
3,000	1,200,000	\$173,122.00	\$96,840.00	\$76,282.00	\$173,170.00	\$96,840.00	\$76,330.00	\$48.00	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
600	240,000	\$34,622.80	\$19,188.00	\$15,434.80	\$34,632.40	\$19,188.00	\$15,444.40	\$9.60	0.0%
800	320,000	\$46,089.40	\$25,584.00	\$20,505.40	\$46,102.20	\$25,584.00	\$20,518.20	\$12.80	0.0%
1,000	400,000	\$57,556.00	\$31,980.00	\$25,576.00	\$57,572.00	\$31,980.00	\$25,592.00	\$16.00	0.0%
1,500	600,000	\$86,222.50	\$47,970.00	\$38,252.50	\$86,246.50	\$47,970.00	\$38,276.50	\$24.00	0.0%
3,000	1,200,000	\$172,222.00	\$95,940.00	\$76,282.00	\$172,270.00	\$95,940.00	\$76,330.00	\$48.00	0.0%

Present Rates

Proposed Rates

Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	KW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	KWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	KWh x	\$0.01097	\$0.01097
Transition Charge	KWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	KWh x	\$0.02204	\$0.02204
SMART Charge	KWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 450
KWh Split: - On-Peak 45%
- Off-Peak 55%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	270,000	\$39,427.38	\$22,661.10	\$16,766.28	\$39,438.18	\$22,661.10	\$16,777.08	\$10.80	0.0%
800	360,000	\$52,495.50	\$30,214.80	\$22,280.70	\$52,509.90	\$30,214.80	\$22,295.10	\$14.40	0.0%
1,000	450,000	\$65,563.63	\$37,768.50	\$27,795.13	\$65,581.63	\$37,768.50	\$27,813.13	\$18.00	0.0%
1,500	675,000	\$98,233.94	\$56,652.75	\$41,581.19	\$98,260.94	\$56,652.75	\$41,608.19	\$27.00	0.0%
3,000	1,350,000	\$196,244.88	\$113,305.50	\$82,939.38	\$196,298.88	\$113,305.50	\$82,993.38	\$54.00	0.0%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
600	270,000	\$38,555.28	\$21,789.00	\$16,766.28	\$38,566.08	\$21,789.00	\$16,777.08	\$10.80	0.0%
800	360,000	\$51,332.70	\$29,052.00	\$22,280.70	\$51,347.10	\$29,052.00	\$22,295.10	\$14.40	0.0%
1,000	450,000	\$64,110.13	\$36,315.00	\$27,795.13	\$64,128.13	\$36,315.00	\$27,813.13	\$18.00	0.0%
1,500	675,000	\$96,053.69	\$54,472.50	\$41,581.19	\$96,080.69	\$54,472.50	\$41,608.19	\$27.00	0.0%
3,000	1,350,000	\$191,884.38	\$108,945.00	\$82,939.38	\$191,938.38	\$108,945.00	\$82,993.38	\$54.00	0.0%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	KWh	Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
600	270,000	\$38,352.78	\$21,586.50	\$16,766.28	\$38,363.58	\$21,586.50	\$16,777.08	\$10.80	0.0%
800	360,000	\$51,062.70	\$28,782.00	\$22,280.70	\$51,077.10	\$28,782.00	\$22,295.10	\$14.40	0.0%
1,000	450,000	\$63,772.63	\$35,977.50	\$27,795.13	\$63,790.63	\$35,977.50	\$27,813.13	\$18.00	0.0%
1,500	675,000	\$95,547.44	\$53,966.25	\$41,581.19	\$95,574.44	\$53,966.25	\$41,608.19	\$27.00	0.0%
3,000	1,350,000	\$190,871.88	\$107,932.50	\$82,939.38	\$190,925.88	\$107,932.50	\$82,993.38	\$54.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	KW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	KWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	KWh x	\$0.01097	\$0.01097
Transition Charge	KWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	KWh x	\$0.02204	\$0.02204
SMART Charge	KWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 500
KWh Split: - On-Peak 45%
- Off-Peak 55%

SEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	300,000	\$43,276.75	\$25,179.00	\$18,097.75	\$43,288.75	\$25,179.00	\$18,109.75	\$12.00	0.0%
800	400,000	\$57,628.00	\$33,572.00	\$24,056.00	\$57,644.00	\$33,572.00	\$24,072.00	\$16.00	0.0%
1,000	500,000	\$71,979.25	\$41,965.00	\$30,014.25	\$71,999.25	\$41,965.00	\$30,034.25	\$20.00	0.0%
1,500	750,000	\$107,857.38	\$62,947.50	\$44,909.88	\$107,887.38	\$62,947.50	\$44,939.88	\$30.00	0.0%
3,000	1,500,000	\$215,491.75	\$125,895.00	\$89,596.75	\$215,551.75	\$125,895.00	\$89,656.75	\$60.00	0.0%

WCMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total WCMA	Basic Service WCMA	Retail Delivery	Total WCMA	Basic Service WCMA	Retail Delivery	Amount	%
600	300,000	\$42,307.75	\$24,210.00	\$18,097.75	\$42,319.75	\$24,210.00	\$18,109.75	\$12.00	0.0%
800	400,000	\$56,336.00	\$32,280.00	\$24,056.00	\$56,352.00	\$32,280.00	\$24,072.00	\$16.00	0.0%
1,000	500,000	\$70,364.25	\$40,350.00	\$30,014.25	\$70,384.25	\$40,350.00	\$30,034.25	\$20.00	0.0%
1,500	750,000	\$105,434.88	\$60,525.00	\$44,909.88	\$105,464.88	\$60,525.00	\$44,939.88	\$30.00	0.0%
3,000	1,500,000	\$210,646.75	\$121,050.00	\$89,596.75	\$210,706.75	\$121,050.00	\$89,656.75	\$60.00	0.0%

NEMA

Monthly Power KW	KWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total NEMA	Basic Service NEMA	Retail Delivery	Total NEMA	Basic Service NEMA	Retail Delivery	Amount	%
600	300,000	\$42,082.75	\$23,985.00	\$18,097.75	\$42,094.75	\$23,985.00	\$18,109.75	\$12.00	0.0%
800	400,000	\$56,036.00	\$31,980.00	\$24,056.00	\$56,052.00	\$31,980.00	\$24,072.00	\$16.00	0.0%
1,000	500,000	\$69,989.25	\$39,975.00	\$30,014.25	\$70,009.25	\$39,975.00	\$30,034.25	\$20.00	0.0%
1,500	750,000	\$104,872.38	\$59,962.50	\$44,909.88	\$104,902.38	\$59,962.50	\$44,939.88	\$30.00	0.0%
3,000	1,500,000	\$209,521.75	\$119,925.00	\$89,596.75	\$209,581.75	\$119,925.00	\$89,656.75	\$60.00	0.0%

Present Rates

Proposed Rates

Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	KW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	KWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	KWh x	\$0.01097	\$0.01097
Transition Charge	KWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	KWh x	\$0.02204	\$0.02204
SMART Charge	KWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	KWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	KWh x	\$0.00967	\$0.00967
Renewables Charge	KWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	KWh x	\$0.08393	\$0.08393
Basic Service Charge (2)	KWh x	\$0.08070	\$0.08070
Basic Service Charge (2)	KWh x	\$0.07995	\$0.07995

(1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor, 0.092¢

Massachusetts Electric Company
Proposed July 1, 2020
Calculation of Annual Typical Bill
Impact on S-5 Basic Service Customers
(Street & Area Lighting - Customer Owned Equipment)

Luminaire Type	Description	Annual kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
Incandescent	LUM INC RWY 105W	438	\$95.19	\$36.91	\$58.28	\$95.23	\$36.91	\$58.32	\$0.04	0.0%
Incandescent	LUM INC RWY 205W	856	\$186.05	\$72.14	\$113.91	\$186.12	\$72.14	\$113.98	\$0.07	0.0%
Mercury Vapor	LUM MV POST 100W	543	\$118.00	\$45.76	\$72.24	\$118.04	\$45.76	\$72.28	\$0.04	0.0%
Mercury Vapor	LUM MV POST 175W	881	\$191.48	\$74.25	\$117.23	\$191.55	\$74.25	\$117.30	\$0.07	0.0%
Mercury Vapor	LUM MV RWY 100W	543	\$118.00	\$45.76	\$72.24	\$118.04	\$45.76	\$72.28	\$0.04	0.0%
Mercury Vapor	LUM MV RWY 175W	881	\$191.48	\$74.25	\$117.23	\$191.55	\$74.25	\$117.30	\$0.07	0.0%
Mercury Vapor	LUM MV RWY 400W	1,991	\$432.73	\$167.80	\$264.93	\$432.89	\$167.80	\$265.09	\$0.16	0.0%
Mercury Vapor	LUM MV RWY 1000W	4,572	\$993.69	\$385.33	\$608.36	\$994.06	\$385.33	\$608.73	\$0.37	0.0%
Mercury Vapor	LUM MV RWY 250W	1,282	\$278.63	\$108.05	\$170.58	\$278.73	\$108.05	\$170.68	\$0.10	0.0%
Mercury Vapor	LUM MV FLD 400W	1,991	\$432.73	\$167.80	\$264.93	\$432.89	\$167.80	\$265.09	\$0.16	0.0%
Mercury Vapor	LUM MV FLD 1000W	4,572	\$993.69	\$385.33	\$608.36	\$994.06	\$385.33	\$608.73	\$0.37	0.0%
Sodium Vapor	LUM HPS POST 50W	255	\$55.43	\$21.49	\$33.94	\$55.45	\$21.49	\$33.96	\$0.02	0.0%
Sodium Vapor	LUM HPS POST 100W	359	\$78.03	\$30.26	\$47.77	\$78.06	\$30.26	\$47.80	\$0.03	0.0%
Sodium Vapor	LUM HPS RWY 50W	255	\$55.43	\$21.49	\$33.94	\$55.45	\$21.49	\$33.96	\$0.02	0.0%
Sodium Vapor	LUM HPS RWY 70W	359	\$78.03	\$30.26	\$47.77	\$78.06	\$30.26	\$47.80	\$0.03	0.0%
Sodium Vapor	LUM HPS RWY 100W	493	\$107.16	\$41.55	\$65.61	\$107.20	\$41.55	\$65.65	\$0.04	0.0%
Sodium Vapor	LUM HPS RWY 150W	722	\$156.91	\$60.85	\$96.06	\$156.97	\$60.85	\$96.12	\$0.06	0.0%
Sodium Vapor	LUM HPS RWY 250W	1,269	\$275.80	\$106.95	\$168.85	\$275.90	\$106.95	\$168.95	\$0.10	0.0%
Sodium Vapor	LUM HPS RWY 400W	1,962	\$426.42	\$165.36	\$261.06	\$426.58	\$165.36	\$261.22	\$0.16	0.0%
Sodium Vapor	LUM HPS RWY 1000W	4,618	\$1,003.68	\$389.21	\$614.47	\$1,004.05	\$389.21	\$614.84	\$0.37	0.0%
Sodium Vapor	LUM HPS FLD 250W	1,269	\$275.80	\$106.95	\$168.85	\$275.90	\$106.95	\$168.95	\$0.10	0.0%
Sodium Vapor	LUM HPS FLD 400W	1,962	\$426.42	\$165.36	\$261.06	\$426.58	\$165.36	\$261.22	\$0.16	0.0%
Sodium Vapor	WALL HPS 250W 12HR	1,332	\$289.49	\$112.26	\$177.23	\$289.60	\$112.26	\$177.34	\$0.11	0.0%
Sodium Vapor	WALL HPS 250W 24HR	2,663	\$578.78	\$224.44	\$354.34	\$578.99	\$224.44	\$354.55	\$0.21	0.0%
Metal Halide	LUM MH FLD 400W	1,883	\$409.26	\$158.70	\$250.56	\$409.41	\$158.70	\$250.71	\$0.15	0.0%
Light Emitting D	(LUM LED 25W)	104	\$22.61	\$8.77	\$13.84	\$22.62	\$8.77	\$13.85	\$0.01	0.0%
Light Emitting D	(LUM LED 75W)	313	\$68.03	\$26.38	\$41.65	\$68.06	\$26.38	\$41.68	\$0.03	0.0%
Light Emitting D	(LUM LED 125W)	522	\$113.44	\$43.99	\$69.45	\$113.48	\$43.99	\$69.49	\$0.04	0.0%
Light Emitting D	(LUM LED 175W)	731	\$158.88	\$61.61	\$97.27	\$158.94	\$61.61	\$97.33	\$0.06	0.0%
Light Emitting D	(LUM LED 225W)	939	\$204.09	\$79.14	\$124.95	\$204.17	\$79.14	\$125.03	\$0.08	0.0%
Light Emitting D	(LUM LED 275W)	1,148	\$249.50	\$96.75	\$152.75	\$249.59	\$96.75	\$152.84	\$0.09	0.0%

Distribution Charge (1)	kWh x	\$0.08884	\$0.08884
Transition Charge	kWh x	(\$0.00082)	(\$0.00082)
Transmission Charge	kWh x	\$0.03218	\$0.03218
SMART Charge	kWh x	\$0.00269	\$0.00269
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00008
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	kWh x	\$0.08428	\$0.08428
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(1) Includes: Basic Service Adjustment Factor -0.025¢, Residential Assistance Adjustment Factor 0.464¢, Storm Fund Replenishment Adjustment Factor 0.26¢, Pension/PBOP Adjustment Factor 0.778¢, RDM Adjustment Factor 0.19¢, Attorney General Consultant Expense Factor 0.004¢, Solar Cost Adjustment Factor -0.004¢, Smart Grid Distribution Adjustment Factor 0.006¢, Net Metering Recovery Surcharge 0.803¢, CapEx Factor 2.05¢, Tax Act Credit Factor -0.05¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.029¢, and Grid Modernization Factor 0.024¢

(2) Includes: Basic Service Administrative Cost Factor 0.01¢, and Smart Grid Customer Cost Adjustment Factor, 0.209¢

Massachusetts Electric Company
Nantucket Electric Company
d/b/a National Grid
Electric Vehicle Program Factor Filing
D.P.U. 20-64
H.O. _____

Exhibit NG-5

Typical Bills – Nantucket Electric

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill- Index

Description	Reference
Calculation of Monthly Typical Bill- Index	Page 1 of 17
Impact on R-1 Basic Service Customers	Page 2 of 17
Impact on R-2 Basic Service Customers	Page 3 of 17
Impact on G-1 Basic Service Customers	Page 4 of 17
Impact on G-2 Basic Service Customers Hours of Use: 200	Page 5 of 17
Impact on G-2 Basic Service Customers Hours of Use: 250	Page 6 of 17
Impact on G-2 Basic Service Customers Hours of Use: 300	Page 7 of 17
Impact on G-2 Basic Service Customers Hours of Use: 350	Page 8 of 17
Impact on G-2 Basic Service Customers Hours of Use: 400	Page 9 of 17
Impact on G-2 Basic Service Customers Hours of Use: 450	Page 10 of 17
Impact on G-3 Basic Service Customers Hours of Use: 250	Page 11 of 17
Impact on G-3 Basic Service Customers Hours of Use: 300	Page 12 of 17
Impact on G-3 Basic Service Customers Hours of Use: 350	Page 13 of 17
Impact on G-3 Basic Service Customers Hours of Use: 400	Page 14 of 17
Impact on G-3 Basic Service Customers Hours of Use: 450	Page 15 of 17
Impact on G-3 Basic Service Customers Hours of Use: 500	Page 16 of 17
Impact on S-5 Basic Service Customers	Page 17 of 17

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on R-1 Basic Service Customers

Monthly kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
	Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
125	\$36.22	\$12.37	\$23.85	\$36.23	\$12.37	\$23.86	\$0.01	0.0%
250	\$65.47	\$24.75	\$40.72	\$65.50	\$24.75	\$40.75	\$0.03	0.0%
500	\$123.92	\$49.49	\$74.43	\$123.98	\$49.49	\$74.49	\$0.06	0.0%
600	\$147.30	\$59.39	\$87.91	\$147.37	\$59.39	\$87.98	\$0.07	0.0%
750	\$182.38	\$74.24	\$108.14	\$182.46	\$74.24	\$108.22	\$0.08	0.0%
1,000	\$240.82	\$98.98	\$141.84	\$240.93	\$98.98	\$141.95	\$0.11	0.0%
1,250	\$299.29	\$123.73	\$175.56	\$299.43	\$123.73	\$175.70	\$0.14	0.0%
1,500	\$357.74	\$148.47	\$209.27	\$357.91	\$148.47	\$209.44	\$0.17	0.0%
2,000	\$474.64	\$197.96	\$276.68	\$474.86	\$197.96	\$276.90	\$0.22	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$7.00	\$7.00
Distribution Charge - All kWh (1)	kWh x	\$0.07423	\$0.07423
Cable Facilities Surcharge (winter)	kWh x	\$0.00513	\$0.00513
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.03130	\$0.03130
SMART Charge	kWh x	\$0.00356	\$0.00356
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00011
Energy Efficiency Charge	kWh x	\$0.02098	\$0.02098
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	kWh x	\$0.09898	\$0.09898
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(1) Includes: Basic Service Adjustment Factor -0.033¢, Residential Assistance Adjustment Factor 0.614¢, Storm Fund Replenishment Adjustment Factor 0.301¢, Pension/PBOP Adjustment Factor 0.182¢, RDM Adjustment Factor 0.251¢, Attorney General Consultant Expense Factor 0.006¢, Solar Cost Adjustment Factor -0.005¢, Smart Grid Distribution Adjustment Factor 0.008¢, Net Metering Recovery Surcharge 1.061¢, CapEx Factor 0.41¢, 2017 Tax Act Credit Factor -0.067¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.024¢ and Grid Modernization Factor 0.032¢

(2) Includes: Basic Service Administrative Cost Factor 0.011¢, and Smart Grid Customer Cost Adjustment Factor 0.412¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on R-2 Basic Service Customers

Monthly kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
	Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
50	\$12.10	\$4.95	\$7.15	\$12.10	\$4.95	\$7.15	\$0.00	0.0%
100	\$19.43	\$9.90	\$9.53	\$19.43	\$9.90	\$9.53	\$0.00	0.0%
150	\$26.76	\$14.85	\$11.91	\$26.78	\$14.85	\$11.93	\$0.02	0.1%
250	\$41.44	\$24.75	\$16.69	\$41.46	\$24.75	\$16.71	\$0.02	0.0%
300	\$48.77	\$29.69	\$19.08	\$48.79	\$29.69	\$19.10	\$0.02	0.0%
500	\$78.12	\$49.49	\$28.63	\$78.15	\$49.49	\$28.66	\$0.03	0.0%
600	\$92.79	\$59.39	\$33.40	\$92.83	\$59.39	\$33.44	\$0.04	0.0%
750	\$114.79	\$74.24	\$40.55	\$114.85	\$74.24	\$40.61	\$0.06	0.1%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$7.00	\$7.00
Distribution Charge - All kWh (1)	kWh x	\$0.07423	\$0.07423
Cable Facilities Surcharge (winter)	kWh x	\$0.00317	\$0.00317
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.03130	\$0.03130
SMART Charge	kWh x	\$0.00356	\$0.00356
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00011
Energy Efficiency Charge	kWh x	\$0.00486	\$0.00486
Renewables Charge	kWh x	\$0.00050	\$0.00050
Discount		32.00%	32.00%

Supplier Services

Basic Service Charge (2)	kWh x	\$0.09898	\$0.09898
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(1) Includes: Basic Service Adjustment Factor -0.033¢, Residential Assistance Adjustment Factor 0.614¢, Storm Fund Replenishment Adjustment Factor 0.301¢, Pension/PBOP Adjustment Factor 0.182¢, RDM Adjustment Factor 0.251¢, Attorney General Consultant Expense Factor 0.006¢, Solar Cost Adjustment Factor -0.005¢, Smart Grid Distribution Adjustment Factor 0.008¢, Net Metering Recovery Surcharge 1.061¢, CapEx Factor 0.41¢, 2017 Tax Act Credit Factor -0.067¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.024¢ and Grid Modernization Factor 0.032¢

(2) Includes: Basic Service Administrative Cost Factor 0.011¢, and Smart Grid Customer Cost Adjustment Factor 0.412¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-1 Basic Service Customers

Monthly kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
	Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
50	\$19.63	\$4.21	\$15.42	\$19.63	\$4.21	\$15.42	\$0.00	0.0%
100	\$29.24	\$8.43	\$20.81	\$29.25	\$8.43	\$20.82	\$0.01	0.0%
250	\$58.12	\$21.07	\$37.05	\$58.14	\$21.07	\$37.07	\$0.02	0.0%
500	\$106.23	\$42.14	\$64.09	\$106.28	\$42.14	\$64.14	\$0.05	0.0%
1,500	\$298.67	\$126.42	\$172.25	\$298.81	\$126.42	\$172.39	\$0.14	0.0%
2,500	\$491.11	\$210.70	\$280.41	\$491.34	\$210.70	\$280.64	\$0.23	0.0%
5,000	\$972.20	\$421.40	\$550.80	\$972.65	\$421.40	\$551.25	\$0.45	0.0%
7,500	\$1,453.31	\$632.10	\$821.21	\$1,453.99	\$632.10	\$821.89	\$0.68	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$10.00	\$10.00
Distribution Charge - All kWh (1)	kWh x	\$0.06420	\$0.06420
Cable Facilities Surcharge (winter)	kWh x	\$0.00861	\$0.00861
Transition Charge	kWh x	(\$0.00087)	(\$0.00087)
Transmission Charge	kWh x	\$0.02311	\$0.02311
SMART Charge	kWh x	\$0.00294	\$0.00294
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00009
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services

Basic Service Charge (2)	kWh x	\$0.08428	\$0.08428
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(1) Includes: Basic Service Adjustment Factor -0.027¢, Residential Assistance Adjustment Factor 0.508¢, Storm Fund Replenishment Adjustment Factor 0.265¢, Pension/PBOP Adjustment Factor 0.157¢, RDM Adjustment Factor 0.207¢, Attorney General Consultant Expense Factor 0.005¢, Solar Cost Adjustment Factor -0.004¢, Smart Grid Distribution Adjustment Factor 0.007¢, Net Metering Recovery Surcharge 0.878¢, CapEx Factor 0.323¢, 2017 Tax Act Credit Factor -0.055¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.023¢, and Grid Modernization Factor 0.026¢

(2) Includes: Basic Service Administrative Cost Factor 0.01¢, and Smart Grid Customer Cost Adjustment Factor 0.209¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 200

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
kW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	3,000	\$635.13	\$251.79	\$383.34	\$635.31	\$251.79	\$383.52	\$0.18	0.0%
20	4,000	\$836.84	\$335.72	\$501.12	\$837.08	\$335.72	\$501.36	\$0.24	0.0%
40	8,000	\$1,643.68	\$671.44	\$972.24	\$1,644.16	\$671.44	\$972.72	\$0.48	0.0%
75	15,000	\$3,055.65	\$1,258.95	\$1,796.70	\$3,056.55	\$1,258.95	\$1,797.60	\$0.90	0.0%
150	30,000	\$6,081.30	\$2,517.90	\$3,563.40	\$6,083.10	\$2,517.90	\$3,565.20	\$1.80	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	kW x	\$10.60	\$10.60
Distribution Charge (1)	kWh x	\$0.01996	\$0.01996
Cable Facilities Surcharge (winter)	kWh x	\$0.01049	\$0.01049
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.02283	\$0.02283
SMART Charge	kWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
<u>Supplier Services (SEMA)</u>			
Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393

- (1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, 2017 Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.016¢.
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 250

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
kW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	3,750	\$746.66	\$314.74	\$431.92	\$746.89	\$314.74	\$432.15	\$0.23	0.0%
20	5,000	\$985.55	\$419.65	\$565.90	\$985.85	\$419.65	\$566.20	\$0.30	0.0%
40	10,000	\$1,941.10	\$839.30	\$1,101.80	\$1,941.70	\$839.30	\$1,102.40	\$0.60	0.0%
75	18,750	\$3,613.31	\$1,573.69	\$2,039.62	\$3,614.44	\$1,573.69	\$2,040.75	\$1.13	0.0%
150	37,500	\$7,196.65	\$3,147.38	\$4,049.27	\$7,198.90	\$3,147.38	\$4,051.52	\$2.25	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	kW x	\$10.60	\$10.60
Distribution Charge (1)	kWh x	\$0.01996	\$0.01996
Cable Facilities Surcharge (winter)	kWh x	\$0.01049	\$0.01049
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.02283	\$0.02283
SMART Charge	kWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
<u>Supplier Services (SEMA)</u>			
Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393

- (1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, 2017 Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
 Proposed July 1, 2020
 Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 300

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
kW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	4,500	\$858.22	\$377.69	\$480.53	\$858.49	\$377.69	\$480.80	\$0.27	0.0%
20	6,000	\$1,134.26	\$503.58	\$630.68	\$1,134.62	\$503.58	\$631.04	\$0.36	0.0%
40	12,000	\$2,238.52	\$1,007.16	\$1,231.36	\$2,239.24	\$1,007.16	\$1,232.08	\$0.72	0.0%
75	22,500	\$4,171.00	\$1,888.43	\$2,282.57	\$4,172.35	\$1,888.43	\$2,283.92	\$1.35	0.0%
150	45,000	\$8,311.95	\$3,776.85	\$4,535.10	\$8,314.65	\$3,776.85	\$4,537.80	\$2.70	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	kW x	\$10.60	\$10.60
Distribution Charge (1)	kWh x	\$0.01996	\$0.01996
Cable Facilities Surcharge (winter)	kWh x	\$0.01049	\$0.01049
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.02283	\$0.02283
SMART Charge	kWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
<u>Supplier Services (SEMA)</u>			
Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393

- (1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, 2017 Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.0104
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 350

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
kW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	5,250	\$969.73	\$440.63	\$529.10	\$970.05	\$440.63	\$529.42	\$0.32	0.0%
20	7,000	\$1,282.97	\$587.51	\$695.46	\$1,283.39	\$587.51	\$695.88	\$0.42	0.0%
40	14,000	\$2,535.94	\$1,175.02	\$1,360.92	\$2,536.78	\$1,175.02	\$1,361.76	\$0.84	0.0%
75	26,250	\$4,728.64	\$2,203.16	\$2,525.48	\$4,730.22	\$2,203.16	\$2,527.06	\$1.58	0.0%
150	52,500	\$9,427.30	\$4,406.33	\$5,020.97	\$9,430.45	\$4,406.33	\$5,024.12	\$3.15	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	kW x	\$10.60	\$10.60
Distribution Charge (1)	kWh x	\$0.01996	\$0.01996
Cable Facilities Surcharge (winter)	kWh x	\$0.01049	\$0.01049
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.02283	\$0.02283
SMART Charge	kWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
<u>Supplier Services (SEMA)</u>			
Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393

- (1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, 2017 Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.010¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 400

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
kW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	6,000	\$1,081.26	\$503.58	\$577.68	\$1,081.62	\$503.58	\$578.04	\$0.36	0.0%
20	8,000	\$1,431.68	\$671.44	\$760.24	\$1,432.16	\$671.44	\$760.72	\$0.48	0.0%
40	16,000	\$2,833.36	\$1,342.88	\$1,490.48	\$2,834.32	\$1,342.88	\$1,491.44	\$0.96	0.0%
75	30,000	\$5,286.30	\$2,517.90	\$2,768.40	\$5,288.10	\$2,517.90	\$2,770.20	\$1.80	0.0%
150	60,000	\$10,542.60	\$5,035.80	\$5,506.80	\$10,546.20	\$5,035.80	\$5,510.40	\$3.60	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	kW x	\$10.60	\$10.60
Distribution Charge (1)	kWh x	\$0.01996	\$0.01996
Cable Facilities Surcharge (winter)	kWh x	\$0.01049	\$0.01049
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.02283	\$0.02283
SMART Charge	kWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
<u>Supplier Services (SEMA)</u>			
Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393

(1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, 2017 Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢

(2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-2 Basic Service Customers

Hours Use: 450

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
kW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
15	6,750	\$1,192.79	\$566.53	\$626.26	\$1,193.20	\$566.53	\$626.67	\$0.41	0.0%
20	9,000	\$1,580.39	\$755.37	\$825.02	\$1,580.93	\$755.37	\$825.56	\$0.54	0.0%
40	18,000	\$3,130.78	\$1,510.74	\$1,620.04	\$3,131.86	\$1,510.74	\$1,621.12	\$1.08	0.0%
75	33,750	\$5,843.96	\$2,832.64	\$3,011.32	\$5,845.99	\$2,832.64	\$3,013.35	\$2.03	0.0%
150	67,500	\$11,657.95	\$5,665.28	\$5,992.67	\$11,662.00	\$5,665.28	\$5,996.72	\$4.05	0.0%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$30.00	\$30.00
Distribution Demand Charge	kW x	\$10.60	\$10.60
Distribution Charge (1)	kWh x	\$0.01996	\$0.01996
Cable Facilities Surcharge (winter)	kWh x	\$0.01049	\$0.01049
Transition Charge	kWh x	(\$0.00086)	(\$0.00086)
Transmission Charge	kWh x	\$0.02283	\$0.02283
SMART Charge	kWh x	\$0.00219	\$0.00219
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00006
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
<u>Supplier Services (SEMA)</u>			
Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393

- (1) Includes: Basic Service Adjustment Factor -0.02¢, Residential Assistance Adjustment Factor 0.377¢, Storm Fund Replenishment Adjustment Factor 0.19¢, Pension/PBOP Adjustment Factor 0.114¢, RDM Adjustment Factor 0.154¢, Attorney General Consultant Expense Factor 0.003¢, Solar Cost Adjustment Factor -0.003¢, Smart Grid Distribution Adjustment Factor 0.005¢, Net Metering Recovery Surcharge 0.653¢, CapEx Factor 0.27¢, 2017 Tax Act Credit Factor -0.041¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.02¢, and Grid Modernization Factor 0.019¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 250
kWh Split: - On-Peak 55%
- Off-Peak 45%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	150,000	\$25,107.63	\$12,589.50	\$12,518.13	\$25,113.63	\$12,589.50	\$12,524.13	\$6.00	0.0%
800	200,000	\$33,402.50	\$16,786.00	\$16,616.50	\$33,410.50	\$16,786.00	\$16,624.50	\$8.00	0.0%
1,000	250,000	\$41,697.38	\$20,982.50	\$20,714.88	\$41,707.38	\$20,982.50	\$20,724.88	\$10.00	0.0%
1,500	375,000	\$62,434.57	\$31,473.75	\$30,960.82	\$62,449.57	\$31,473.75	\$30,975.82	\$15.00	0.0%
3,000	750,000	\$124,646.13	\$62,947.50	\$61,698.63	\$124,676.13	\$62,947.50	\$61,728.63	\$30.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	kW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	kWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	kWh x	\$0.01097	\$0.01097
Cable Facilities Surcharge (winter)	kWh x	\$0.00702	\$0.00702
Transition Charge	kWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	kWh x	\$0.02204	\$0.02204
SMART Charge	kWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services (SEMA)

Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393
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- (1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, 2017 Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 300
kWh Split: - On-Peak 50%
- Off-Peak 50%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	180,000	\$29,157.70	\$15,107.40	\$14,050.30	\$29,164.90	\$15,107.40	\$14,057.50	\$7.20	0.0%
800	240,000	\$38,802.60	\$20,143.20	\$18,659.40	\$38,812.20	\$20,143.20	\$18,669.00	\$9.60	0.0%
1,000	300,000	\$48,447.50	\$25,179.00	\$23,268.50	\$48,459.50	\$25,179.00	\$23,280.50	\$12.00	0.0%
1,500	450,000	\$72,559.75	\$37,768.50	\$34,791.25	\$72,577.75	\$37,768.50	\$34,809.25	\$18.00	0.0%
3,000	900,000	\$144,896.50	\$75,537.00	\$69,359.50	\$144,932.50	\$75,537.00	\$69,395.50	\$36.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	kW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	kWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	kWh x	\$0.01097	\$0.01097
Cable Facilities Surcharge (winter)	kWh x	\$0.00702	\$0.00702
Transition Charge	kWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	kWh x	\$0.02204	\$0.02204
SMART Charge	kWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services (SEMA)

Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393
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- (1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, 2017 Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 350
kWh Split: - On-Peak 50%
- Off-Peak 50%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	210,000	\$33,220.15	\$17,625.30	\$15,594.85	\$33,228.55	\$17,625.30	\$15,603.25	\$8.40	0.0%
800	280,000	\$44,219.20	\$23,500.40	\$20,718.80	\$44,230.40	\$23,500.40	\$20,730.00	\$11.20	0.0%
1,000	350,000	\$55,218.25	\$29,375.50	\$25,842.75	\$55,232.25	\$29,375.50	\$25,856.75	\$14.00	0.0%
1,500	525,000	\$82,715.88	\$44,063.25	\$38,652.63	\$82,736.88	\$44,063.25	\$38,673.63	\$21.00	0.0%
3,000	1,050,000	\$165,208.75	\$88,126.50	\$77,082.25	\$165,250.75	\$88,126.50	\$77,124.25	\$42.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	kW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	kWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	kWh x	\$0.01097	\$0.01097
Cable Facilities Surcharge (winter)	kWh x	\$0.00702	\$0.00702
Transition Charge	kWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	kWh x	\$0.02204	\$0.02204
SMART Charge	kWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services (SEMA)

Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393
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- (1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, 2017 Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 400
kWh Split: - On-Peak 45%
- Off-Peak 55%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	240,000	\$37,262.80	\$20,143.20	\$17,119.60	\$37,272.40	\$20,143.20	\$17,129.20	\$9.60	0.0%
800	320,000	\$49,609.40	\$26,857.60	\$22,751.80	\$49,622.20	\$26,857.60	\$22,764.60	\$12.80	0.0%
1,000	400,000	\$61,956.00	\$33,572.00	\$28,384.00	\$61,972.00	\$33,572.00	\$28,400.00	\$16.00	0.0%
1,500	600,000	\$92,822.50	\$50,358.00	\$42,464.50	\$92,846.50	\$50,358.00	\$42,488.50	\$24.00	0.0%
3,000	1,200,000	\$185,422.00	\$100,716.00	\$84,706.00	\$185,470.00	\$100,716.00	\$84,754.00	\$48.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	kW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	kWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	kWh x	\$0.01097	\$0.01097
Cable Facilities Surcharge (winter)	kWh x	\$0.00702	\$0.00702
Transition Charge	kWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	kWh x	\$0.02204	\$0.02204
SMART Charge	kWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services (SEMA)

Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393
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- (1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, 2017 Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 450
kWh Split: - On-Peak 45%
- Off-Peak 55%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	270,000	\$41,322.78	\$22,661.10	\$18,661.68	\$41,333.58	\$22,661.10	\$18,672.48	\$10.80	0.0%
800	360,000	\$55,022.70	\$30,214.80	\$24,807.90	\$55,037.10	\$30,214.80	\$24,822.30	\$14.40	0.0%
1,000	450,000	\$68,722.63	\$37,768.50	\$30,954.13	\$68,740.63	\$37,768.50	\$30,972.13	\$18.00	0.0%
1,500	675,000	\$102,972.44	\$56,652.75	\$46,319.69	\$102,999.44	\$56,652.75	\$46,346.69	\$27.00	0.0%
3,000	1,350,000	\$205,721.88	\$113,305.50	\$92,416.38	\$205,775.88	\$113,305.50	\$92,470.38	\$54.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	kW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	kWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	kWh x	\$0.01097	\$0.01097
Cable Facilities Surcharge (winter)	kWh x	\$0.00702	\$0.00702
Transition Charge	kWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	kWh x	\$0.02204	\$0.02204
SMART Charge	kWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services (SEMA)

Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393
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- (1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, 2017 Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor 0.011¢
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Monthly Typical Bill

Impact on G-3 Basic Service Customers

Hours Use: 500
kWh Split: - On-Peak 45%
- Off-Peak 55%

Monthly Power		Present Rates			Proposed Rates			Overall Increase (Decrease)	
KW	kWh	Total SEMA	Basic Service SEMA	Retail Delivery	Total SEMA	Basic Service SEMA	Retail Delivery	Amount	%
600	300,000	\$45,382.75	\$25,179.00	\$20,203.75	\$45,394.75	\$25,179.00	\$20,215.75	\$12.00	0.0%
800	400,000	\$60,436.00	\$33,572.00	\$26,864.00	\$60,452.00	\$33,572.00	\$26,880.00	\$16.00	0.0%
1,000	500,000	\$75,489.25	\$41,965.00	\$33,524.25	\$75,509.25	\$41,965.00	\$33,544.25	\$20.00	0.0%
1,500	750,000	\$113,122.38	\$62,947.50	\$50,174.88	\$113,152.38	\$62,947.50	\$50,204.88	\$30.00	0.0%
3,000	1,500,000	\$226,021.75	\$125,895.00	\$100,126.75	\$226,081.75	\$125,895.00	\$100,186.75	\$60.00	0.0%

		Present Rates	Proposed Rates
Customer Charge		\$223.00	\$223.00
Distribution Demand Charge	kW x	\$7.60	\$7.60
Distribution Charge: On Peak (1)	kWh x	\$0.01262	\$0.01262
Distribution Charge: Off Peak (1)	kWh x	\$0.01097	\$0.01097
Cable Facilities Surcharge (winter)	kWh x	\$0.00702	\$0.00702
Transition Charge	kWh x	(\$0.00083)	(\$0.00083)
Transmission Charge	kWh x	\$0.02204	\$0.02204
SMART Charge	kWh x	\$0.00129	\$0.00129
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00004
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050

Supplier Services (SEMA)

Basic Service Charge (2)	kWh x	\$0.08393	\$0.08393
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- (1) Includes: Basic Service Adjustment Factor -0.012¢, Residential Assistance Adjustment Factor 0.223¢, Storm Fund Replenishment Adjustment Factor 0.11¢, Pension/PBOP Adjustment Factor 0.064¢, RDM Adjustment Factor 0.091¢, Attorney General Consultant Expense Factor 0.002¢, Solar Cost Adjustment Factor -0.002¢, Smart Grid Distribution Adjustment Factor 0.003¢, Net Metering Recovery Surcharge 0.386¢, CapEx Factor 0.18¢, 2017 Tax Act Credit Factor -0.024¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.009¢, and Grid Modernization Factor
- (2) Includes: Basic Service Administrative Cost Factor 0.015¢, and Smart Grid Customer Cost Adjustment Factor 0.092¢

Nantucket Electric Company
Proposed July 1, 2020
Calculation of Annual Typical Bill
Impact on S-5 Basic Service Customers
(Street & Area Lighting - Customer Owned Equipment)

Luminaire Type	Description	Annual kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Basic Service	Retail Delivery	Total	Basic Service	Retail Delivery	Amount	%
Incandescent	LUM INC RWY 105W	438	\$96.18	\$36.91	\$59.27	\$96.22	\$36.91	\$59.31	\$0.04	0.0%
Incandescent	LUM INC RWY 205W	856	\$187.98	\$72.14	\$115.84	\$188.05	\$72.14	\$115.91	\$0.07	0.0%
Mercury Vapor	LUM MV POST 100W	543	\$119.23	\$45.76	\$73.47	\$119.27	\$45.76	\$73.51	\$0.04	0.0%
Mercury Vapor	LUM MV POST 175W	881	\$193.47	\$74.25	\$119.22	\$193.54	\$74.25	\$119.29	\$0.07	0.0%
Mercury Vapor	LUM MV RWY 100W	543	\$119.23	\$45.76	\$73.47	\$119.27	\$45.76	\$73.51	\$0.04	0.0%
Mercury Vapor	LUM MV RWY 175W	881	\$193.47	\$74.25	\$119.22	\$193.54	\$74.25	\$119.29	\$0.07	0.0%
Mercury Vapor	LUM MV RWY 400W	1,991	\$437.23	\$167.80	\$269.43	\$437.39	\$167.80	\$269.59	\$0.16	0.0%
Mercury Vapor	LUM MV RWY 1000W	4,572	\$1,004.02	\$385.33	\$618.69	\$1,004.39	\$385.33	\$619.06	\$0.37	0.0%
Mercury Vapor	LUM MV RWY 250W	1,282	\$281.53	\$108.05	\$173.48	\$281.63	\$108.05	\$173.58	\$0.10	0.0%
Mercury Vapor	LUM MV FLD 400W	1,991	\$437.23	\$167.80	\$269.43	\$437.39	\$167.80	\$269.59	\$0.16	0.0%
Mercury Vapor	LUM MV FLD 1000W	4,572	\$1,004.02	\$385.33	\$618.69	\$1,004.39	\$385.33	\$619.06	\$0.37	0.0%
Sodium Vapor	LUM HPS POST 50W	255	\$56.01	\$21.49	\$34.52	\$56.03	\$21.49	\$34.54	\$0.02	0.0%
Sodium Vapor	LUM HPS POST 100W	359	\$78.84	\$30.26	\$48.58	\$78.87	\$30.26	\$48.61	\$0.03	0.0%
Sodium Vapor	LUM HPS RWY 50W	255	\$56.01	\$21.49	\$34.52	\$56.03	\$21.49	\$34.54	\$0.02	0.0%
Sodium Vapor	LUM HPS RWY 70W	359	\$78.84	\$30.26	\$48.58	\$78.87	\$30.26	\$48.61	\$0.03	0.0%
Sodium Vapor	LUM HPS RWY 100W	493	\$108.27	\$41.55	\$66.72	\$108.31	\$41.55	\$66.76	\$0.04	0.0%
Sodium Vapor	LUM HPS RWY 150W	722	\$158.54	\$60.85	\$97.69	\$158.60	\$60.85	\$97.75	\$0.06	0.0%
Sodium Vapor	LUM HPS RWY 250W	1,269	\$278.67	\$106.95	\$171.72	\$278.77	\$106.95	\$171.82	\$0.10	0.0%
Sodium Vapor	LUM HPS RWY 400W	1,962	\$430.85	\$165.36	\$265.49	\$431.01	\$165.36	\$265.65	\$0.16	0.0%
Sodium Vapor	LUM HPS RWY 1000W	4,618	\$1,014.12	\$389.21	\$624.91	\$1,014.49	\$389.21	\$625.28	\$0.37	0.0%
Sodium Vapor	LUM HPS FLD 250W	1,269	\$278.67	\$106.95	\$171.72	\$278.77	\$106.95	\$171.82	\$0.10	0.0%
Sodium Vapor	LUM HPS FLD 400W	1,962	\$430.85	\$165.36	\$265.49	\$431.01	\$165.36	\$265.65	\$0.16	0.0%
Sodium Vapor	WALL HPS 250W 12HR	1,332	\$292.50	\$112.26	\$180.24	\$292.61	\$112.26	\$180.35	\$0.11	0.0%
Sodium Vapor	WALL HPS 250W 24HR	2,663	\$584.80	\$224.44	\$360.36	\$585.01	\$224.44	\$360.57	\$0.21	0.0%
Metal Halide	LUM MH FLD 400W	1,883	\$413.52	\$158.70	\$254.82	\$413.67	\$158.70	\$254.97	\$0.15	0.0%
Light Emitting Diode (LED)	(LUM LED 25W)	104	\$22.85	\$8.77	\$14.08	\$22.86	\$8.77	\$14.09	\$0.01	0.0%
Light Emitting Diode (LED)	(LUM LED 75W)	313	\$68.74	\$26.38	\$42.36	\$68.77	\$26.38	\$42.39	\$0.03	0.0%
Light Emitting Diode (LED)	(LUM LED 125W)	522	\$114.62	\$43.99	\$70.63	\$114.66	\$43.99	\$70.67	\$0.04	0.0%
Light Emitting Diode (LED)	(LUM LED 175W)	731	\$160.53	\$61.61	\$98.92	\$160.59	\$61.61	\$98.98	\$0.06	0.0%
Light Emitting Diode (LED)	(LUM LED 225W)	939	\$206.21	\$79.14	\$127.07	\$206.29	\$79.14	\$127.15	\$0.08	0.0%
Light Emitting Diode (LED)	(LUM LED 275W)	1,148	\$252.09	\$96.75	\$155.34	\$252.18	\$96.75	\$155.43	\$0.09	0.0%

Present Rates

Proposed Rates

Distribution Charge (1)	kWh x	\$0.08884	\$0.08884
Transition Charge	kWh x	(\$0.00082)	(\$0.00082)
Transmission Charge	kWh x	\$0.03218	\$0.03218
SMART Charge	kWh x	\$0.00269	\$0.00269
Electric Vehical Program Charge	kWh x	\$0.00000	\$0.00008
Energy Efficiency Charge	kWh x	\$0.00967	\$0.00967
Renewables Charge	kWh x	\$0.00050	\$0.00050
Cable Facilities Surcharge (winter)	kWh x	\$0.00226	\$0.00226

Supplier Services

Basic Service Charge (2)	kWh x	\$0.08428	\$0.08428
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(1) Includes: Basic Service Adjustment Factor -0.025¢, Residential Assistance Adjustment Factor 0.464¢, Storm Fund Replenishment Adjustment Factor 0.26¢, Pension/PBOP Adjustment Factor 0.778¢, RDM Adjustment Factor 0.19¢, Attorney General Consultant Expense Factor 0.004¢, Solar Cost Adjustment Factor -0.004¢, Smart Grid Distribution Adjustment Factor 0.006¢, Net Metering Recovery Surcharge 0.803¢, CapEx Factor 2.05¢, 2017 Tax Act Credit Factor -0.05¢ Long-Term Renewable Energy Contract Adjustment Factor 0.056¢ Vegetation Management Factor 0.029¢, and Grid Modernization Factor 0.024¢

(2) Includes: Basic Service Administrative Cost Factor 0.01¢, and Smart Grid Customer Cost Adjustment Factor 0.209¢

Massachusetts Electric Company
Nantucket Electric Company
d/b/a National Grid
Electric Vehicle Program Factor Filing
D.P.U. 20-64
H.O. _____

Exhibit NG-6

Summary of Electric Delivery Service Rates Tariff - Mass Electric

MASSACHUSETTS ELECTRIC COMPANY
 SUMMARY OF ELECTRIC DELIVERY SERVICE RATES

Rate	Rate Component	MDPU No.	Net Dist. Rate (Sheet 2)	Base Transition Charge	Transition Charge Adjmt	Net Transition Charge	Energy Efficiency Recon. Factor	Energy Efficiency Charge	Net Energy Efficiency Charge	Renewables Charge	Distributed Solar (SMART) Charge	Electric Vehicle Program Charge	Base Transmission Charge	Transmission Charge Adjmt	Net Transmission Charge	Retail Delivery Price
R-1	Cust. Chge. All kWh Farm Discount <i>Last Change</i>	1424	\$7.00 \$0.07423 (10%) 5/1/20	(\$0.00080) 3/1/20	(\$0.00006) 3/1/20	(\$0.00086) 3/1/20	\$0.01848 5/1/20	\$0.00250 1/1/03	\$0.02098 5/1/20	\$0.00050 1/1/03	\$0.00356 1/1/20	\$0.00011 7/1/20	\$0.03397 3/1/20	(\$0.00267) 3/1/20	\$0.03130 3/1/20	\$7.00 \$0.12982 (10%) 7/1/20
R-2	Cust. Chge. All kWh Farm Discount Low Income Discount <i>Last Change</i>	1425	\$7.00 \$0.07423 (10%) (32%) 5/1/20	(\$0.00080) 3/1/20	(\$0.00006) 3/1/20	(\$0.00086) 3/1/20	\$0.00236 5/1/20	\$0.00250 1/1/03	\$0.00486 5/1/20	\$0.00050 1/1/03	\$0.00356 7/1/20	\$0.00011 7/1/20	\$0.03397 3/1/20	(\$0.00267) 3/1/20	\$0.03130 3/1/20	\$7.00 \$0.11370 (10%) (32%) 7/1/20
G-1	Cust. Chge. Unmetered All kWh Farm Discount Minimum Bill (kVA) <i>Last Change</i>	1426	\$10.00 \$7.50 \$0.06420 (10%) \$2.50 5/1/20	(\$0.00080) 3/1/20	(\$0.00007) 3/1/20	(\$0.00087) 3/1/20	\$0.00717 5/1/20	\$0.00250 1/1/03	\$0.00967 5/1/20	\$0.00050 1/1/03	\$0.00294 7/1/20	\$0.00009 7/1/20	\$0.02508 3/1/20	(\$0.00197) 3/1/20	\$0.02311 3/1/20	\$10.00 \$7.50 \$0.09964 (10%) \$2.50 7/1/20
G-2	Cust. Chge. Demand All kWh Farm Discount High Voltage Metering High Voltage Delivery <i>Last Change</i>	1427	\$30.00 \$10.60 \$0.01996 (10%) (1%) (\$0.57) 5/1/20	(\$0.00080) 3/1/20	(\$0.00006) 3/1/20	(\$0.00086) 3/1/20	\$0.00717 5/1/20	\$0.00250 1/1/03	\$0.00967 5/1/20	\$0.00050 1/1/03	\$0.00219 7/1/20	\$0.00006 7/1/20	\$0.02477 3/1/20	(\$0.00194) 3/1/20	\$0.02283 3/1/20	\$30.00 \$10.60 \$0.05435 (10%) (1%) (\$0.57) 7/1/20
G-3	Cust. Chge. Demand Peak kWh Off Peak kWh Farm Discount High Voltage Metering High Voltage Delivery High Voltage -115kV Delivery 2nd Feeder Service 2nd Feeder Service w/ Add'l Transformer <i>Last Change</i>	1428	\$223.00 \$7.60 \$0.01262 \$0.01097 (10%) (1%) (\$0.57) (\$7.48) \$6.91 \$7.48 5/1/20	(\$0.00080) 3/1/20	(\$0.00003) 3/1/20	(\$0.00083) 3/1/20	\$0.00717 5/1/20	\$0.00250 1/1/03	\$0.00967 5/1/20	\$0.00050 1/1/03	\$0.00129 7/1/20	\$0.00004 7/1/20	\$0.02392 3/1/20	(\$0.00188) 3/1/20	\$0.02204 3/1/20	\$223.00 \$7.60 \$0.04533 \$0.04368 (10%) (1%) (\$0.57) (\$7.48) \$6.91 \$7.48 7/1/20
S-5	All kWh Farm Discount <i>Last Change</i>	1432	\$0.08884 (10%) 5/1/20	(\$0.00080) 3/1/20	(\$0.00002) 3/1/20	(\$0.00082) 3/1/20	\$0.00717 5/1/20	\$0.00250 1/1/03	\$0.00967 5/1/20	\$0.00050 1/1/03	\$0.00269 7/1/20	\$0.00008 7/1/20	\$0.03492 3/1/20	(\$0.00274) 3/1/20	\$0.03218 3/1/20	\$0.13314 (10%) 7/1/20
S-1	for fixture prices see Individual Tariffs	1429	\$0.04585	(\$0.00080)	(\$0.00002)	(\$0.00082)	\$0.00717	\$0.00250	\$0.00967	\$0.00050	\$0.00269	\$0.00008	\$0.03492	(\$0.00274)	\$0.03218	\$0.09015
S-2		1430	\$0.04585	(\$0.00080)	(\$0.00002)	(\$0.00082)	\$0.00717	\$0.00250	\$0.00967	\$0.00050	\$0.00269	\$0.00008	\$0.03492	(\$0.00274)	\$0.03218	\$0.09015
S-3		1431	\$0.04585	(\$0.00080)	(\$0.00002)	(\$0.00082)	\$0.00717	\$0.00250	\$0.00967	\$0.00050	\$0.00269	\$0.00008	\$0.03492	(\$0.00274)	\$0.03218	\$0.09015
S-6		1433	\$0.04585 (10%) 5/1/20	(\$0.00080) 3/1/20	(\$0.00002) 3/1/20	(\$0.00082) 3/1/20	\$0.00717 5/1/20	\$0.00250 1/1/03	\$0.00967 5/1/20	\$0.00050 1/1/03	\$0.00269 1/1/20	\$0.00008 7/1/20	\$0.03492 3/1/20	(\$0.00274) 3/1/20	\$0.03218 3/1/20	\$0.09015 (10%) 7/1/20

Issued by: Marcy L. Reed
 President

Effective:
 Issued:

July 1, 2020
 May 15, 2020

MASSACHUSETTS ELECTRIC COMPANY
 SUMMARY OF ELECTRIC DELIVERY SERVICE RATES
 NET DISTRIBUTION RATE

Rate	Rate Component	MDPU No.	Base Distribution Charge	Net CapEx Factor	Basic Service Adjmt	Res Assist Adjmt	Storm Replenishment Adjmt	Pension PBOP Adjmt	Revenue Decoupling Mechanism	Attorney Gen'l Cons. Expenses	Solar Cost Adjmt	Smart Grid Distribution Adjmt	Net Metering Recovery Surcharge	Renewable Energy Recovery	Vegetation Management Factor	2017 Tax Act Credit Factor	Grid Mod Factor	Net Dist. Rate
R-1	Cust. Chge. All kWh Farm Discount <i>Last Change</i>	1424	\$7.00 \$0.04583 (10%) 11/1/19	\$0.00410 3/1/20	(\$0.00033) 3/1/20	\$0.00614 3/1/20	\$0.00301 11/1/19	\$0.00182 3/1/20	\$0.00251 3/1/20	\$0.00006 3/1/20	(\$0.00005) 3/1/20	\$0.00008 5/1/20	\$0.01061 3/1/20	\$0.00056 3/1/20	\$0.00024 3/1/20	(\$0.00067) 3/1/20	\$0.00032 5/1/20	\$7.00 \$0.07423 (10%) 5/1/20
R-2	Cust. Chge. All kWh Farm Discount Low Income Discount <i>Last Change</i>	1425	\$7.00 \$0.04583 (10%) (32%) 11/1/19	\$0.00410 3/1/20	(\$0.00033) 3/1/20	\$0.00614 3/1/20	\$0.00301 11/1/19	\$0.00182 3/1/20	\$0.00251 3/1/20	\$0.00006 3/1/20	(\$0.00005) 3/1/20	\$0.00008 5/1/20	\$0.01061 3/1/20	\$0.00056 3/1/20	\$0.00024 3/1/20	(\$0.00067) 3/1/20	\$0.00032 5/1/20	\$7.00 \$0.07423 (10%) (32%) 5/1/20
G-1	Cust. Chge. Unmetered All kWh Farm Discount Minimum Bill (kVA) <i>Last Change</i>	1426	\$10.00 \$7.50 \$0.04051 (10%) \$2.50 11/1/19	\$0.00323 3/1/20	(\$0.00027) 3/1/20	\$0.00508 3/1/20	\$0.00265 11/1/19	\$0.00157 3/1/20	\$0.00207 3/1/20	\$0.00005 3/1/20	(\$0.00004) 3/1/20	\$0.00007 5/1/20	\$0.00878 3/1/20	\$0.00056 3/1/20	\$0.00023 3/1/20	(\$0.00055) 3/1/20	\$0.00026 5/1/20	\$10.00 \$7.50 \$0.06420 (10%) \$2.50 5/1/20
G-2	Cust. Chge. Demand All kWh Farm Discount High Voltage Metering High Voltage Delivery <i>Last Change</i>	1427	\$30.00 \$10.60 \$0.00199 (10%) (1%) (\$0.57) 11/1/19	\$0.00270 3/1/20	(\$0.00020) 3/1/20	\$0.00377 3/1/20	\$0.00190 11/1/19	\$0.00114 3/1/20	\$0.00154 3/1/20	\$0.00003 3/1/20	(\$0.00003) 3/1/20	\$0.00005 5/1/20	\$0.00653 3/1/20	\$0.00056 3/1/20	\$0.00020 3/1/20	(\$0.00041) 3/1/20	\$0.00019 5/1/20	\$30.00 \$10.60 \$0.01996 (10%) (1%) (\$0.57) 5/1/20
G-3	Cust. Chge. Demand Peak kWh Off Peak kWh Farm Discount High Voltage Metering High Voltage Delivery High Voltage -115kV Delivery 2nd Feeder Service 2nd Feeder Service w/ Add'l Transformer <i>Last Change</i>	1428	\$223.00 \$7.60 \$0.00165 \$0.00000 (10%) (1%) (\$0.57) (\$7.48) \$6.91 \$7.48 11/1/19	\$0.00180 3/1/20	(\$0.00012) 3/1/20	\$0.00223 3/1/20	\$0.00110 11/1/19	\$0.00064 3/1/20	\$0.00091 3/1/20	\$0.00002 3/1/20	(\$0.00002) 3/1/20	\$0.00003 5/1/20	\$0.00386 3/1/20	\$0.00056 3/1/20	\$0.00009 3/1/20	(\$0.00024) 3/1/20	\$0.00011 5/1/20	\$223.00 \$7.60 \$0.01262 \$0.01097 (10%) (1%) (\$0.57) (\$7.48) \$6.91 \$7.48 5/1/20
S-5	All kWh Farm Discount <i>Last Change</i>	1432	\$0.04299 (10%) 11/1/19	\$0.02050 3/1/20	(\$0.00025) 3/1/20	\$0.00464 3/1/20	\$0.00260 11/1/19	\$0.00778 3/1/20	\$0.00190 3/1/20	\$0.00004 3/1/20	(\$0.00004) 3/1/20	\$0.00006 5/1/20	\$0.00803 3/1/20	\$0.00056 3/1/20	\$0.00029 3/1/20	(\$0.00050) 3/1/20	\$0.00024 5/1/20	\$0.08884 (10%) 5/1/20
S-1 S-2 S-3 S-6	for fixture prices see Individual Tariffs Farm Discount <i>Last Change</i>	1429 1430 1431 1433	\$0.00000 \$0.00000 \$0.00000 \$0.00000 11/1/19	\$0.02050 3/1/20	(\$0.00025) 3/1/20	\$0.00464 3/1/20	\$0.00260 11/1/19	\$0.00778 3/1/20	\$0.00190 3/1/20	\$0.00004 3/1/20	(\$0.00004) 3/1/20	\$0.00006 5/1/20	\$0.00803 3/1/20	\$0.00056 3/1/20	\$0.00029 3/1/20	(\$0.00050) 3/1/20	\$0.00024 5/1/20	\$0.04585 \$0.04585 \$0.04585 \$0.04585 (10%) 5/1/20

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 President

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July 1, 2020
 May 15, 2020

MASSACHUSETTS ELECTRIC COMPANY
 SUMMARY OF BASIC SERVICE RATES

Customer Group (Rate)	Component	Fixed Price Option	Variable Price Option						Last Change
			May	June	July	August	September	October	
Residential (R-1, R-2)	Base Basic Service Rate	\$0.09475	\$0.10512	\$0.09212	\$0.09037	\$0.09035	\$0.09589	\$0.09917	5/1/20
	Basic Service Admin Cost Adjmt	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	\$0.00412	5/1/20
	Smart Grid Customer Cost Adjmt	<u>\$0.00011</u>	<u>\$0.00011</u>	<u>\$0.00011</u>	<u>\$0.00011</u>	<u>\$0.00011</u>	<u>\$0.00011</u>	<u>\$0.00011</u>	5/1/20
	Total Billed Basic Service Rate	\$0.09898	\$0.10935	\$0.09635	\$0.09460	\$0.09458	\$0.10012	\$0.10340	5/1/20
Commercial (G-1, S-1, S-2, S-3, S-5, S-6)	Base Basic Service Rate	\$0.08209	\$0.09001	\$0.07760	\$0.08296	\$0.08214	\$0.08079	\$0.07954	5/1/20
	Basic Service Admin Cost Adjmt	\$0.00209	\$0.00209	\$0.00209	\$0.00209	\$0.00209	\$0.00209	\$0.00209	5/1/20
	Smart Grid Customer Cost Adjmt	<u>\$0.00010</u>	<u>\$0.00010</u>	<u>\$0.00010</u>	<u>\$0.00010</u>	<u>\$0.00010</u>	<u>\$0.00010</u>	<u>\$0.00010</u>	5/1/20
	Total Billed Basic Service Rate	\$0.08428	\$0.09220	\$0.07979	\$0.08515	\$0.08433	\$0.08298	\$0.08173	5/1/20
Industrial (SEMA) (G-2, G-3)	Base Basic Service Rate	\$0.08286	\$0.08847	\$0.07685	\$0.08341	n/a	n/a	n/a	5/1/20
	Basic Service Admin Cost Adjmt	\$0.00092	\$0.00092	\$0.00092	\$0.00092	n/a	n/a	n/a	5/1/20
	Smart Grid Customer Cost Adjmt	<u>\$0.00015</u>	<u>\$0.00015</u>	<u>\$0.00015</u>	<u>\$0.00015</u>	n/a	n/a	n/a	5/1/20
	Total Billed Basic Service Rate	\$0.08393	\$0.08954	\$0.07792	\$0.08448	n/a	n/a	n/a	5/1/20
Industrial (NEMA) (G-2, G-3)	Base Basic Service Rate	\$0.07888	\$0.08230	\$0.07425	\$0.08006	n/a	n/a	n/a	5/1/20
	Basic Service Admin Cost Adjmt	\$0.00092	\$0.00092	\$0.00092	\$0.00092	n/a	n/a	n/a	5/1/20
	Smart Grid Customer Cost Adjmt	<u>\$0.00015</u>	<u>\$0.00015</u>	<u>\$0.00015</u>	<u>\$0.00015</u>	n/a	n/a	n/a	5/1/20
	Total Billed Basic Service Rate	\$0.07995	\$0.08337	\$0.07532	\$0.08113	n/a	n/a	n/a	5/1/20
Industrial (WCMA) (G-2, G-3)	Base Basic Service Rate	\$0.07963	\$0.08442	\$0.07479	\$0.07985	n/a	n/a	n/a	5/1/20
	Basic Service Admin Cost Adjmt	\$0.00092	\$0.00092	\$0.00092	\$0.00092	n/a	n/a	n/a	5/1/20
	Smart Grid Customer Cost Adjmt	<u>\$0.00015</u>	<u>\$0.00015</u>	<u>\$0.00015</u>	<u>\$0.00015</u>	n/a	n/a	n/a	5/1/20
	Total Billed Basic Service Rate	\$0.08070	\$0.08549	\$0.07586	\$0.08092	n/a	n/a	n/a	5/1/20

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