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September 11, 2023

VIA ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

**RE: Docket No. 23-05-EL – The Narragansett Electric Company d/b/a Rhode Island Energy
Tariff Advice to Amend the Net Metering Provision - Proposal for Administration
of Excess Net Metering Credits
Responses to MassAmerican Energy's Data Requests – Set 2 (Complete Set)**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (the “Company”) enclosed are the Company’s complete set of responses to the MassAmerican Energy’s Second Set of Data Requests (“MAE Set 2”) in the above-referenced matter.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-784-4263.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew S. Marcaccio".

Andrew S. Marcaccio

Enclosures

cc: Docket No. 23-05-EL Service List

MAE 2-1

Request:

On page 9 of the tariff advice filing (the Filing) the witnesses address the question “What is the cost of net-metering to distribution customers as a whole?” Please respond to that question in light of the net cost benefit analysis required by PUC docket 4600 and the guiding principles therein and by Rhode Island energy policy.

Response:

Rhode Island Energy had stated the following in the Filing regarding the cost of net-metering to distribution customers as a whole:

Pursuant to the Company’s Net Metering Tariff, the Company recovers through a net metering charge the sum of the following: (1) all renewable net metering credits paid to eligible net metering customers, less any payments from Independent System Operator New England (“ISO-NE”) for the sale of excess generation; and (2) the difference between the payments made to qualifying facilities with renewable generation at the LRS rate and the net proceeds received from ISO-NE for market energy sold and any capacity payments. The net metering charge is a uniform per-kWh charge applicable to all customers and is included with the long-term contracting (“LTC”) recovery factor on customer bills, labeled as the renewable energy distribution charge.

The cost benefit analysis framework adopted by the Public Utilities Commission in Docket No. 4600 is a societal benefit-cost assessment that considers value to the power system, customers, and society. Rhode Island Energy respectfully notes prior work conducted by state agencies to understand the benefits and costs of various net metering policies, including but not limited to the most recent analysis conducted by Sustainable Energy Advantage on behalf of the Rhode Island Office of Energy Resources, available [here](https://energy.ri.gov/sites/g/files/xkgbur741/files/2023-06/Evaluation%20of%20Rhode%20Island%20Distributed%20Generation%20Policies%20-%20Final%20Benefit-Cost%20Analysis%20Results%5B27%5D.pdf).¹ Specifically, the benefit-cost assessment results presented on slide 45 suggest the costs outweigh the benefits for both net metering and virtual net metering.

Rhode Island Energy considers the Net Metering Statute to be the most relevant of Rhode Island’s energy policies for this particular proceeding. Rhode Island Energy maintains its proposal is consistent with the Net Metering Statute.

¹ <https://energy.ri.gov/sites/g/files/xkgbur741/files/2023-06/Evaluation%20of%20Rhode%20Island%20Distributed%20Generation%20Policies%20-%20Final%20Benefit-Cost%20Analysis%20Results%5B27%5D.pdf>

MAE 2-2

Request:

Please clarify how the capacity factor is used to calculate excess renewable net metering credits.

Response:

Per R.I.P.U.C. No. 2257, an Excess Renewable Net Metering Credit is a credit that applies to an Eligible Net Metering System for that portion of the production of electric energy beyond one hundred percent (100%) and no greater than one hundred twenty-five percent (125%) of the Net Metering Customer's own consumption at the Eligible Net Metering System Site or the aggregate consumption of the Net Metered Accounts during the applicable billing period. The Excess Renewable Net Metering Credit is equal to the Company's avoided cost rate, defined for this purpose as the Last Resort Service (LRS) kilowatt-hour (kWh) charge for the rate class and time-of-use billing period, if applicable, that is applicable to the Net Metering Customer for the Eligible Net Metering System.

Consequently, the calculation of the Excess Renewable Net Metering Credit for a given Eligible Net Metering System is a function of that system's generation, consumption, and the LRS rate during the applicable billing period.

For a behind-the-meter net metering system (i.e., where the load is onsite), the meter provides a reading that is equal to consumption net of generation. Consequently, although the net kWh value is known (and may indicate excess generation for a period) the actual consumption and generation remain unknown. Consequently, for purposes of the annual reconciliation, the Company must either estimate generation or consumption for purposes of establishing to what extent the excess generation exceeded 100% to 125% of consumption.

For behind-the-meter net metering systems, estimated annual consumption is calculated using up to thirty-six months of historical consumption data prior to the connection date of the net metering system (and so a capacity factor is not used).¹ Estimated annual generation is established during the application and interconnection process for the net metering system and utilizes the maximum annual output of the system and a capacity factor.

With respect to stand-alone net metering systems (i.e., Community Remote Net Metering Systems or Remote Net Metering Systems), an estimation of generation and consumption is not necessary for purposes of the annual reconciliation (and so a capacity factor is not used).

¹ Historical consumption data for a behind-the-meter net metering system is dependent on the availability of monthly consumption readings prior to the connection date of the net metering system.

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MAE 2-2, page 2

Assuming immaterial site consumption, the meter reading at the stand-alone site represents generation. The associated consumption is either the actual aggregate consumption of the associated Net Metering Accounts or the three-year average aggregate sum of the on-site consumption of the associated Net Metering Accounts (the latter of which is available via the Schedule B).

As the Company stated in response to Division 1-3, MAE 1-2, and clarified in PUC 2-8, the Company intends to use the estimated annual consumption for this calculation. Therefore, the capacity factor is not directly related to the calculation of excess renewable net metering credits. The Company currently expects, however, that it will be able to provide the reconciliation calculated using either methodology (i.e., estimated consumption or estimated generation).

MAE 2-3

Request:

On pages 10-11 of the Filing, RIE discusses the existing tariff language that authorizes annual reconciliation as follows:

establish a monthly billing plan that reflects the expected credits that would be applied to the net metered accounts over twelve (12) months. The billing plan would be designed to even out monthly billings over twelve (12) months, regardless of actual production and usage. If such election is made by the electric-distribution company, the electric-distribution company would reconcile payments and credits under the billing plan to actual production and consumption at the end of the twelve-month (12) period and apply any credits or charges to the net-metered accounts for any positive or negative difference, as applicable.

The company proposes to use annual reconciliation of production and consumption to assess a charge for any excess renewable net metering credits. What is the Company's explanation for not also assessing a net energy credit on an annual basis under such a 12 month billing plan?

Response:

The Company monetizes monthly for the net generation at the time of production. This is aligned with the "billing period" as described in the definition of a Renewable net-metering credit.¹ The Company's response to MAE 1-7 elaborates on the consistency of this approach with the Net Metering Statute and Docket 4600 principles.

Furthermore, at the August 16, 2023 Technical Conference in the instant proceeding the Company stated that it would use a "weighted average" billing charge for purposes of the annual reconciliation. Consequently, the Company would weight the Renewable Net Metering Credit and Excess Renewable Net Metering Credit used to calculate the billing charges based on a customer's monthly excess generation. The use of a "weighted average" billing charge is included in the calculations provided in the Company's response to MAE 2-7, MAE 2-8, and MAE 2-9.

¹ <http://webserver.rilin.state.ri.us/Statutes/TITLE39/39-26.4/39-26.4-2.htm>

MAE 2-4

Request:

On page 12, your testimony speaks of applying an average LRS rate to issue cash out credits.

Permit a cash out provision to cash out excess renewable net metering credits (credits for energy produced that is between 100% and 125% of the net metering customer's usage during the billing period) on an annual basis at the average annual LRS rate, after the reconciliation billing charges apply

On page 15 you add:

Specifically, the Company is proposing to apply an annual average of the LRS rate as the LRS rate fluctuates throughout the year.

Why would you not also reconcile the net pay out of total credits on the basis of an annual average LRS rate?

Response:

Following the PUC Technical Session on August 16, 2023 and as described in MAE 2-7 through 2-9, the Company will implement a weighted average to calculate and apply relevant billing charges for the annual reconciliation. The Company does not apply credits based on an annual average LRS rate for the reasons described in response to MAE 1-7.

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MAE 2-5

Request:

The Company responded to PUC 1-4 as follows:

Request: Please explain how, specifically, RIE would determine annual averages for the purpose of calculating Billing Charges as described in the proposed Schedule C load-sited net metering facilities. Response:

Response: The Company would utilize the monthly tariff rates as shown in R.I.P.U.C. Tariff No. 2095 and R.I.P.U.C. Tariff No. 2096 to calculate the annual average Renewable Net Metering Credit and Excess Renewable Net Metering Credit for purposes of calculating the Billing Charges. For an example utilizing A-16 for 2022, please refer to PUC 1-4 Attachment. The Company calculated the Renewable Net Metering Credit and the Excess Renewable Net Metering Credit for each month of 2022 based on their respective components (Last Resort Service, Distribution, Transmission, and Transition) and subsequently computed their yearly mean values

If averaging the LRS rate makes sense for reconciling billing charges, why does it not also make sense for reconciling the total value of the credits owed? How can averaging the rate for one purpose (charges) and not for the other (credits) be equitable to the customer?

Response:

Please refer to responses in MAE 2-3, 2-4, and 1-7.

MAE 2-6

Request:

In response to MAE 1-3 you state:

Request: Does NEC ever assess a net annual charge on a net metered electric account when that account generates more electricity than it consumes behind a single meter? If so, please explain how that can happen.

Response: Yes, the Company may assess a net annual charge on a net metered electric account for an account that generates more electricity than it consumes behind a single meter if the value of the net metering credits are not worth enough to offset the fixed charges on the electric account.

What do you mean by fixed charges? Do they include seasonal rate variations?

Response:

By “fixed charges,” the Company generally means those charges assessed to customers on a per customer basis as opposed to a per kilowatt-hour (i.e., volumetric) basis. A fixed charge does not vary with the level of the customer’s consumption during the billing period (whether that consumption is positive, zero, or negative).

The Company presently has three monthly charges that are assessed on a per customer basis:

1. The Billing Distribution Customer Charge
2. The Low Income Home Energy Assistance Enhancement Plan Charge (LIHEAP Charge)
3. The Renewable Energy (RE) Growth Factor

The Company’s Billing Distribution Customer Charge is presently fixed under the terms and conditions of the Company’s Rate Plan in Docket No. 4770 and is not seasonally differentiated.

The LIHEAP Charge is set annually, effective January 1, pursuant to R.I.P.U.C. No. 2220 and is not seasonally differentiated.

The RE Growth Factor is presently set annually, effective October 1, and is not seasonally differentiated. Please refer to R.I.P.U.C. No. 2262 for additional information.

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MAE 2-6, page 2

Please note that monthly charges other than “fixed charges” may also be assessed to net metering accounts even when that account generates more electricity than it consumes behind a single meter. For instance, a G-32 (Large Demand Rate) customer may incur a monthly Billing Distribution kW Charge (for kW in excess of 200 kW), a monthly CapEx Factor kW Infrastructure, Safety, and Reliability (ISR) Charge (for kW in excess of 200 kW), and a monthly Base Transmission kW Charge (per kW). These demand charges and other non-volumetric monthly charges are not seasonally differentiated.

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MAE 2-7

Request:

In additional response to MAE 1-8, please use last year's LRS rates to calculate the impact of an annual average LRS rate on a representative solar net metering residential customer and contrast to the current monthly LRS valuation method.

Response:

The Company does not have a “representative solar net metering residential customer.” For purposes of this response and for the sake of an example of the proposed annual reconciliation, the Company has used the following simplifying characteristics and assumptions for a “representative solar net metering residential customer”:

- Rate Class A-16
- Both generation and consumption are separately known (i.e., more information is available than the simple net consumption amount)
- Over the course of a year, the customer consumes more than they generate for the months of January through March and September through October, and generates more than they consume for the months of May through August:

Month	Generation	Consumption	Net Consumption (Net Generation)
January	950	1,000	50
February	950	1,000	50
March	950	1,000	50
April	975	1,000	25
May	1,238	1,000	(238)
June	1,238	1,000	(238)
July	1,238	1,000	(238)
August	1,238	1,000	(238)
September	975	1,000	25
October	950	1,000	50
November	950	1,000	50
December	950	1,000	50
Total	12,600	12,000	(600)

MAE 2-7, page 2

Per the above table, the customer's annual generation is 105% of the customer's annual consumption.

Using rates in effect for 2022 and before the application of the annual reconciliation, the customer's net annual bill is \$35.74.

The customer's net annual bill including the annual reconciliation is \$98.41.

- Consistent with the discussion at the August 16, 2023 Technical Conference, the billing charges applied to the customer's excess generation are calculated using the weighted average of the Renewable Net Metering Credit and Excess Renewable Net Metering Credit in effect during the month the excess generation took place (i.e., it is not using a straight average of the Renewable Net Metering Credit and Excess Renewable Net Metering Credit but instead a weighted average, with that weighting reflecting the timing of the excess generation).

If the Renewable Net Metering Credit and the Excess Renewable Net Metering Credit were instead applied on the basis of their annual averages (including an annual average Last Resort Service (LRS) rate), the customer's net annual bill before the application of the annual reconciliation is \$4.63.

The customer's net annual bill under the same scenario including the annual reconciliation is \$65.88.

- For purposes of the calculation of the annual reconciliation, the billing charges in this scenario are calculated using the annual average Renewable Net Metering Credit and Excess Renewable Net Metering Credit.

The Company's supporting calculations are provided in Attachment MAE 2-7.

Please note that a Renewable Net Metering Credit and an Excess Renewable Net Metering Credit calculated on the basis of an annual average LRS is not consistent with the Company's Commission-approved Net Metering Provision, R.I.P.U.C. 2257. The Company believes the approved Net Metering Provision is consistent with the guiding principles adopted in R.I.P.U.C. Docket No. 4600, with the purpose of Rhode Island's net metering law as set out in § 39-26.4-1, and with Rhode Island's energy and climate policies. Furthermore, please note that, in months where a customer's consumption exceeds their generation, they pay the monthly LRS rate in effect for that month (i.e., not an annual average LRS rate).

(1) Generation to Consumption Ratio 105%

	(A)	(B)	(C)	(D) = (C) - (B)	(E) = MIN((D),0)	(F)	(G)	(H) Net Consumption		(I) Net Generation		(L)	(M)	(N) = (L) + (M)	(O)	(P) = (N) + [(N) x (O)]
Month	Generation (kWh)	Consumption (kWh)	Net Consumption (Net Generation) (kWh)	Excess Generation (kWh)	Excess Generation (Monthly % of Annual Total)	Customer Count	Total Charges (Volumetric)	Total Charges (Fixed)	Total Credits (Volumetric)	Total Charges (Fixed)	Volumetric Charges (Credits)	Fixed Charges	Net Bill	Gross Earnings Tax (GET) (%)	Net Bill (Including GET)	
(2) January	950	1,000	50	-	0%	1	\$ 0.21879	\$ 9.25	\$ 0.19345	\$ 9.25	\$ 10.94	\$ 9.25	\$ 20.19	4.166667%	\$ 21.03	
(3) February	950	1,000	50	-	0%	1	\$ 0.21988	\$ 9.25	\$ 0.19345	\$ 9.25	\$ 10.99	\$ 9.25	\$ 20.24	4.166667%	\$ 21.09	
(4) March	950	1,000	50	-	0%	1	\$ 0.21988	\$ 9.25	\$ 0.19345	\$ 9.25	\$ 10.99	\$ 9.25	\$ 20.24	4.166667%	\$ 21.09	
(5) April	975	1,000	25	-	0%	1	\$ 0.19579	\$ 9.25	\$ 0.16884	\$ 9.25	\$ 4.89	\$ 9.25	\$ 14.14	4.166667%	\$ 14.73	
(6) May	1,238	1,000	(238)	(238)	25%	1	\$ 0.19579	\$ 9.25	\$ 0.16884	\$ 9.25	\$ (40.10)	\$ 9.25	\$ (30.85)	4.166667%	\$ (32.13)	
(7) June	1,238	1,000	(238)	(238)	25%	1	\$ 0.19579	\$ 9.25	\$ 0.16884	\$ 9.25	\$ (40.10)	\$ 9.25	\$ (30.85)	4.166667%	\$ (32.13)	
(8) July	1,238	1,000	(238)	(238)	25%	1	\$ 0.19244	\$ 9.25	\$ 0.16970	\$ 9.25	\$ (40.30)	\$ 9.25	\$ (31.05)	4.166667%	\$ (32.35)	
(9) August	1,238	1,000	(238)	(238)	25%	1	\$ 0.19244	\$ 9.25	\$ 0.16970	\$ 9.25	\$ (40.30)	\$ 9.25	\$ (31.05)	4.166667%	\$ (32.35)	
(10) September	975	1,000	25	-	0%	1	\$ 0.19244	\$ 9.25	\$ 0.16970	\$ 9.25	\$ 4.81	\$ 9.25	\$ 14.06	4.166667%	\$ 14.65	
(11) October	950	1,000	50	-	0%	1	\$ 0.29415	\$ 8.37	\$ 0.27085	\$ 8.37	\$ 14.71	\$ 8.37	\$ 23.08	4.166667%	\$ 24.04	
(12) November	950	1,000	50	-	0%	1	\$ 0.29415	\$ 8.37	\$ 0.27085	\$ 8.37	\$ 14.71	\$ 8.37	\$ 23.08	4.166667%	\$ 24.04	
(13) December	950	1,000	50	-	0%	1	\$ 0.29415	\$ 8.37	\$ 0.27085	\$ 8.37	\$ 14.71	\$ 8.37	\$ 23.08	4.166667%	\$ 24.04	
(14) Total	12,600	12,000	(600)	(950)	100%	12					\$ (74.05)	\$ 108.36	\$ 34.31		\$ 35.74	

(A)	(Q) = (I)	(R)	(S)	(T)
Month	Renewable Net Metering Credit	Excess Renewable Net Metering Credit	Tier 1 Billing Charge (\$/kWh)	Tier 2 Billing Charge (\$/kWh)
(15) January	\$ 0.19345	\$ 0.10217	\$ -	\$ -
(16) February	\$ 0.19345	\$ 0.10217	\$ -	\$ -
(17) March	\$ 0.19345	\$ 0.10217	\$ -	\$ -
(18) April	\$ 0.16884	\$ 0.06900	\$ -	\$ -
(19) May	\$ 0.16884	\$ 0.06900	\$ 0.02496	\$ 0.04221
(20) June	\$ 0.16884	\$ 0.06900	\$ 0.02496	\$ 0.04221
(21) July	\$ 0.16970	\$ 0.06900	\$ 0.02518	\$ 0.04243
(22) August	\$ 0.16970	\$ 0.06900	\$ 0.02518	\$ 0.04243
(23) September	\$ 0.16970	\$ 0.06900	\$ -	\$ -
(24) October	\$ 0.27085	\$ 0.17064	\$ -	\$ -
(25) November	\$ 0.27085	\$ 0.17064	\$ -	\$ -
(26) December	\$ 0.27085	\$ 0.17064	\$ -	\$ -
(27) Total			\$ 0.10027	\$ 0.16927

- (28) Tier 2 Billing Charge (> 125%) kWh - = MAX[Column (B), Line (14) - [Column (C), Line (14) x 1.25],0]
(29) Tier 1 Billing Charge (100% - 125%) kWh 600 = Column (B), Line (14) - Column (C), Line (14) - Line (28)
- (30) Tier 1 Billing Charge (\$/kWh) \$ 0.10027 = Column (S), Line (27)
(31) Tier 2 Billing Charge (\$/kWh) \$ 0.16927 = Column (T), Line (27)
- (32) Tier 1 Billing Charge \$ 60.16 = Line (29) x Line (30)
(33) Tier 2 Billing Charge \$ - = Line (28) x Line (31)
(34) Total Billing Charges \$ 60.16 = Line (32) + Line (33)
- (35) Gross Earnings Tax (GET) (%) 4.166667%
- (36) Total Billing Charges Including GET \$ 62.67 = Line (34) + [Line (34) x Line (35)]
- (37) Total Annual Bill \$ 98.41 = Column (P), Line (14) + Line (36)

Notes:
(F) For Column (F), Line (2): Column (E), Line (2) + Column (E), Line (14); and so on.
(H) See Page 5, Column (LL).
(I) See Page 5, Column (MM).
(J) See Page 6, Column (NN).
(K) See Page 6, Column (OO).
(L) If (D) >= 0, then (D) x (H); if D < 0, then (D) x (J).
(M) If (D) >= 0, then (G) x (I); if D < 0, then (G) x (K).
(R) See Page 5, Column (KK).
(S) = -(R) - (Q) x (F)
(T) = (Q) x (F)

(1) Generation to Consumption Ratio 105%

	(A)	(B)	(C)	(D) = (C) - (B)	(E) = MIN((D),0)	(F)	(G)	(H) Net Consumption		(I) Net Generation		(L)	(M)	(N) = (L) + (M)	(O)	(P) = (N) + [(N) x (O)]
	Month	Generation (kWh)	Consumption (kWh)	Net Consumption (Net Generation) (kWh)	Excess Generation (kWh)	Excess Generation (Monthly % of Annual Total)	Customer Count	Total Charges (Volumetric)	Total Charges (Fixed)	Total Credits (Volumetric)	Total Charges (Fixed)	Volumetric Charges (Credits)	Fixed Charges	Net Bill	Gross Earnings Tax (GET) (%)	Net Bill (Including GET)
(2)	January	950	1,000	50	-	0%	1	\$ 0.21879	\$ 9.25	\$ 0.20071	\$ 9.25	\$ 10.94	\$ 9.25	\$ 20.19	4.166667%	\$ 21.03
(3)	February	950	1,000	50	-	0%	1	\$ 0.21988	\$ 9.25	\$ 0.20071	\$ 9.25	\$ 10.99	\$ 9.25	\$ 20.24	4.166667%	\$ 21.09
(4)	March	950	1,000	50	-	0%	1	\$ 0.21988	\$ 9.25	\$ 0.20071	\$ 9.25	\$ 10.99	\$ 9.25	\$ 20.24	4.166667%	\$ 21.09
(5)	April	975	1,000	25	-	0%	1	\$ 0.19579	\$ 9.25	\$ 0.20071	\$ 9.25	\$ 4.89	\$ 9.25	\$ 14.14	4.166667%	\$ 14.73
(6)	May	1,238	1,000	(238)	(238)	25%	1	\$ 0.19579	\$ 9.25	\$ 0.20071	\$ 9.25	\$ (47.67)	\$ 9.25	\$ (38.42)	4.166667%	\$ (40.02)
(7)	June	1,238	1,000	(238)	(238)	25%	1	\$ 0.19579	\$ 9.25	\$ 0.20071	\$ 9.25	\$ (47.67)	\$ 9.25	\$ (38.42)	4.166667%	\$ (40.02)
(8)	July	1,238	1,000	(238)	(238)	25%	1	\$ 0.19244	\$ 9.25	\$ 0.20071	\$ 9.25	\$ (47.67)	\$ 9.25	\$ (38.42)	4.166667%	\$ (40.02)
(9)	August	1,238	1,000	(238)	(238)	25%	1	\$ 0.19244	\$ 9.25	\$ 0.20071	\$ 9.25	\$ (47.67)	\$ 9.25	\$ (38.42)	4.166667%	\$ (40.02)
(10)	September	975	1,000	25	-	0%	1	\$ 0.19244	\$ 9.25	\$ 0.20071	\$ 9.25	\$ 4.81	\$ 9.25	\$ 14.06	4.166667%	\$ 14.65
(11)	October	950	1,000	50	-	0%	1	\$ 0.29415	\$ 8.37	\$ 0.20071	\$ 8.37	\$ 14.71	\$ 8.37	\$ 23.08	4.166667%	\$ 24.04
(12)	November	950	1,000	50	-	0%	1	\$ 0.29415	\$ 8.37	\$ 0.20071	\$ 8.37	\$ 14.71	\$ 8.37	\$ 23.08	4.166667%	\$ 24.04
(13)	December	950	1,000	50	-	0%	1	\$ 0.29415	\$ 8.37	\$ 0.20071	\$ 8.37	\$ 14.71	\$ 8.37	\$ 23.08	4.166667%	\$ 24.04
(14)	Total	12,600	12,000	(600)	(950)	100%	12					\$ (103.92)	\$ 108.36	\$ 4.44		\$ 4.63

	(A)	(Q) = (I)	(R)	(S)	(T)
	Month	Renewable Net Metering Credit	Excess Renewable Net Metering Credit	Tier 1 Billing Charge (\$/kWh)	Tier 2 Billing Charge (\$/kWh)
(15)	January	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(16)	February	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(17)	March	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(18)	April	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(19)	May	\$ 0.20071	\$ 0.10270	\$ 0.02450	\$ 0.05018
(20)	June	\$ 0.20071	\$ 0.10270	\$ 0.02450	\$ 0.05018
(21)	July	\$ 0.20071	\$ 0.10270	\$ 0.02450	\$ 0.05018
(22)	August	\$ 0.20071	\$ 0.10270	\$ 0.02450	\$ 0.05018
(23)	September	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(24)	October	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(25)	November	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(26)	December	\$ 0.20071	\$ 0.10270	\$ -	\$ -
(27)	Total			\$ 0.09801	\$ 0.20071

- (28) Tier 2 Billing Charge (> 125%) kWh - = MAX[Column (B), Line (14) - [Column (C), Line (14) x 1.25],0]
(29) Tier 1 Billing Charge (100% - 125%) kWh 600 = Column (B), Line (14) - Column (C), Line (14) - Line (28)
- (30) Tier 1 Billing Charge (\$/kWh) \$ 0.09801 = Column (S), Line (27)
(31) Tier 2 Billing Charge (\$/kWh) \$ 0.20071 = Column (T), Line (27)
- (32) Tier 1 Billing Charge \$ 58.80 = Line (29) x Line (30)
(33) Tier 2 Billing Charge \$ - = Line (28) x Line (31)
(34) Total Billing Charges \$ 58.80 = Line (32) + Line (33)
- (35) Gross Earnings Tax (GET) (%) 4.166667%
- (36) Total Billing Charges Including GET \$ 61.25 = Line (34) + [Line (34) x Line (35)]
- (37) Total Annual Bill \$ 65.88 = Column (P), Line (14) + Line (36)

Notes:

- (F) For Column (F), Line (2): Column (E), Line (2) ÷ Column (E), Line (14); and so on.
(H) See Page 5, Column (LL).
(I) See Page 5, Column (MM).
(J) For all months: See Page 5, Column (JJ), Line (97).
(K) See Page 6, Column (OO).
(L) If (D) >= 0: then (D) x (H); if D < 0, then (D) x (I).
(M) If (D) >= 0: then (G) x (I); if D < 0, then (G) x (K).
(R) For all months: See Page 5, Column (KK), Line (97).
(S) = -(R) - (Q) x (F)
(T) = (Q) x (F)

Rate Class A-16: Rates in Effect (2022)

	(A) Month-Year	(B) Distribution Customer Charge	(C) Fixed Charges		RE Growth Charge
			LIHEAP Enhancement Charge		
(1)	Jan-22	\$ 6.00	\$ 0.79	\$ 2.46	
(2)	Feb-22	\$ 6.00	\$ 0.79	\$ 2.46	
(3)	Mar-22	\$ 6.00	\$ 0.79	\$ 2.46	
(4)	Apr-22	\$ 6.00	\$ 0.79	\$ 2.46	
(5)	May-22	\$ 6.00	\$ 0.79	\$ 2.46	
(6)	Jun-22	\$ 6.00	\$ 0.79	\$ 2.46	
(7)	Jul-22	\$ 6.00	\$ 0.79	\$ 2.46	
(8)	Aug-22	\$ 6.00	\$ 0.79	\$ 2.46	
(9)	Sep-22	\$ 6.00	\$ 0.79	\$ 2.46	
(10)	Oct-22	\$ 6.00	\$ 0.79	\$ 1.58	
(11)	Nov-22	\$ 6.00	\$ 0.79	\$ 1.58	
(12)	Dec-22	\$ 6.00	\$ 0.79	\$ 1.58	

	(D) Month-Year	(E) Last Resort Service Base Charge	(F) Last Resort Service Adjustment	(G) Last Resort Service Admin. Cost Factor	(H) Renewable Energy Standard Charge	(I) Last Resort Service Total
(13)	Jan-22	\$ 0.10491	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.10882
(14)	Feb-22	\$ 0.10491	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.10882
(15)	Mar-22	\$ 0.10491	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.10882
(16)	Apr-22	\$ 0.07174	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.07565
(17)	May-22	\$ 0.07174	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.07565
(18)	Jun-22	\$ 0.07174	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.07565
(19)	Jul-22	\$ 0.07174	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.07565
(20)	Aug-22	\$ 0.07174	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.07565
(21)	Sep-22	\$ 0.07174	\$ (0.00512)	\$ 0.00238	\$ 0.00665	\$ 0.07565
(22)	Oct-22	\$ 0.17149	\$ (0.00318)	\$ 0.00233	\$ 0.00721	\$ 0.17785
(23)	Nov-22	\$ 0.17149	\$ (0.00318)	\$ 0.00233	\$ 0.00721	\$ 0.17785
(24)	Dec-22	\$ 0.17149	\$ (0.00318)	\$ 0.00233	\$ 0.00721	\$ 0.17785

	(I) Month-Year	(J) Distribution Charge	(K) Operating and Maintenance Expense Charge	(L) O&M Reconciliation Factor	(M) CapEx Factor Charge	(N) CapEx Reconciliation Factor	(O) RDM Adj. Factor	(P) Pension Adjustment Factor	(Q) Storm Fund Replenishment Factor	(R) Arrearage Management Adjustment Factor	(S) Low-Income Discount Recovery Factor	(T) Performance Incentive Factor	(U) = SUM((I)-(S))
													Billing Distribution Charge
(25)	Jan-22	\$ 0.04580	\$ 0.00204	\$ (0.00010)	\$ 0.00544	\$ (0.00069)	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05699
(26)	Feb-22	\$ 0.04580	\$ 0.00204	\$ (0.00010)	\$ 0.00544	\$ (0.00069)	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05699
(27)	Mar-22	\$ 0.04580	\$ 0.00204	\$ (0.00010)	\$ 0.00544	\$ (0.00069)	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05699
(28)	Apr-22	\$ 0.04580	\$ 0.00211	\$ (0.00010)	\$ 0.00639	\$ (0.00069)	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06301
(29)	May-22	\$ 0.04580	\$ 0.00211	\$ (0.00010)	\$ 0.00639	\$ (0.00069)	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06301
(30)	Jun-22	\$ 0.04580	\$ 0.00211	\$ (0.00010)	\$ 0.00639	\$ (0.00069)	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06301
(31)	Jul-22	\$ 0.04580	\$ 0.00211	\$ (0.00010)	\$ 0.00639	\$ (0.00069)	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06387
(32)	Aug-22	\$ 0.04580	\$ 0.00211	\$ (0.00010)	\$ 0.00639	\$ (0.00069)	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06387
(33)	Sep-22	\$ 0.04580	\$ 0.00211	\$ (0.00010)	\$ 0.00639	\$ (0.00069)	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06387
(34)	Oct-22	\$ 0.04580	\$ 0.00211	\$ -	\$ 0.00639	\$ (0.00089)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06338
(35)	Nov-22	\$ 0.04580	\$ 0.00211	\$ -	\$ 0.00639	\$ (0.00089)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06338
(36)	Dec-22	\$ 0.04580	\$ 0.00211	\$ -	\$ 0.00639	\$ (0.00089)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06338

Rate Class A-16: Rates in Effect (2022)

Month-Year	(U)	(V)	(W)	(X) = (U) + (V) + (W)
	Base Transmission Charge	Transmission Adjustment	Transmission Uncollectible Factor	Transmission
(37) Jan-22	\$ 0.03454	\$ 0.00074	\$ 0.00046	\$ 0.03574
(38) Feb-22	\$ 0.03454	\$ 0.00074	\$ 0.00046	\$ 0.03574
(39) Mar-22	\$ 0.03454	\$ 0.00074	\$ 0.00046	\$ 0.03574
(40) Apr-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(41) May-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(42) Jun-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(43) Jul-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(44) Aug-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(45) Sep-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(46) Oct-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(47) Nov-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665
(48) Dec-22	\$ 0.03524	\$ 0.00095	\$ 0.00046	\$ 0.03665

Month-Year	(Y)	(Z)	(AA) = (Y) + (Z)
	Base Transition Charge	Transition Charge Adjustment	Transition
(49) Jan-22	\$ (0.00149)	\$ 0.00004	\$ (0.00145)
(50) Feb-22	\$ (0.00149)	\$ 0.00004	\$ (0.00145)
(51) Mar-22	\$ (0.00149)	\$ 0.00004	\$ (0.00145)
(52) Apr-22	\$ -	\$ 0.00018	\$ 0.00018
(53) May-22	\$ -	\$ 0.00018	\$ 0.00018
(54) Jun-22	\$ -	\$ 0.00018	\$ 0.00018
(55) Jul-22	\$ -	\$ 0.00018	\$ 0.00018
(56) Aug-22	\$ -	\$ 0.00018	\$ 0.00018
(57) Sep-22	\$ -	\$ 0.00018	\$ 0.00018
(58) Oct-22	\$ -	\$ 0.00018	\$ 0.00018
(59) Nov-22	\$ -	\$ 0.00018	\$ 0.00018
(60) Dec-22	\$ -	\$ 0.00018	\$ 0.00018

Month-Year	(BB)	(CC)	(DD) = (BB) + (CC)
	Net Metering Charge	Long-Term Contracting	Renewable Energy Distribution Charge
(61) Jan-22	\$ 0.00436	\$ 0.00290	\$ 0.00726
(62) Feb-22	\$ 0.00436	\$ 0.00290	\$ 0.00726
(63) Mar-22	\$ 0.00436	\$ 0.00290	\$ 0.00726
(64) Apr-22	\$ 0.00488	\$ 0.00290	\$ 0.00778
(65) May-22	\$ 0.00488	\$ 0.00290	\$ 0.00778
(66) Jun-22	\$ 0.00488	\$ 0.00290	\$ 0.00778
(67) Jul-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(68) Aug-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(69) Sep-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(70) Oct-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(71) Nov-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(72) Dec-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357

Rate Class A-16: Rates in Effect (2022)

	(EE)	(FF)	(GG)	(HH)	(II) = SUM[(EE):(HH)]
	Energy Efficiency				
Month-Year	Energy Efficiency Program Charge	System Reliability Plan Charge	Renewables Charge	EE & SRP Uncollectible Charge	Total Energy Efficiency Charge
(73) Jan-22	\$ 0.01099	\$ -	\$ 0.00030	\$ 0.00014	\$ 0.01143
(74) Feb-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(75) Mar-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(76) Apr-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(77) May-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(78) Jun-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(79) Jul-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(80) Aug-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(81) Sep-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(82) Oct-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(83) Nov-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(84) Dec-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252

(JJ) = (D) + (E) + (F) + (T) +
(X) + (AA) (KK) = (D) + (E) + (F)

Month-Year	Renewable Net Metering Credit	Excess Renewable Net Metering Credit
(85) Jan-22	\$ 0.19345	\$ 0.10217
(86) Feb-22	\$ 0.19345	\$ 0.10217
(87) Mar-22	\$ 0.19345	\$ 0.10217
(88) Apr-22	\$ 0.16884	\$ 0.06900
(89) May-22	\$ 0.16884	\$ 0.06900
(90) Jun-22	\$ 0.16884	\$ 0.06900
(91) Jul-22	\$ 0.16970	\$ 0.06900
(92) Aug-22	\$ 0.16970	\$ 0.06900
(93) Sep-22	\$ 0.16970	\$ 0.06900
(94) Oct-22	\$ 0.27085	\$ 0.17064
(95) Nov-22	\$ 0.27085	\$ 0.17064
(96) Dec-22	\$ 0.27085	\$ 0.17064
(97) Average	\$ 0.20071	\$ 0.10270

(LL) = (H) + (T) + (AA) +
(DD) + (II) (MM) = (A) + (B) + (C)

Month-Year	Net Consumption	
	Total Charges (Volumetric)	Total Charges (Fixed)
(98) Jan-22	\$ 0.21879	\$ 9.25
(99) Feb-22	\$ 0.21988	\$ 9.25
(100) Mar-22	\$ 0.21988	\$ 9.25
(101) Apr-22	\$ 0.19579	\$ 9.25
(102) May-22	\$ 0.19579	\$ 9.25
(103) Jun-22	\$ 0.19579	\$ 9.25
(104) Jul-22	\$ 0.19244	\$ 9.25
(105) Aug-22	\$ 0.19244	\$ 9.25
(106) Sep-22	\$ 0.19244	\$ 9.25
(107) Oct-22	\$ 0.29415	\$ 8.37
(108) Nov-22	\$ 0.29415	\$ 8.37
(109) Dec-22	\$ 0.29415	\$ 8.37

Rate Class A-16: Rates in Effect (2022)

(NN) = (JJ) (OO) = (MM)

		Net Generation	
Month-Year	Total Credits (Volumetric)	Total Charges (Fixed)	
(110) Jan-22	\$ 0.19345	\$ 9.25	
(111) Feb-22	\$ 0.19345	\$ 9.25	
(112) Mar-22	\$ 0.19345	\$ 9.25	
(113) Apr-22	\$ 0.16884	\$ 9.25	
(114) May-22	\$ 0.16884	\$ 9.25	
(115) Jun-22	\$ 0.16884	\$ 9.25	
(116) Jul-22	\$ 0.16970	\$ 9.25	
(117) Aug-22	\$ 0.16970	\$ 9.25	
(118) Sep-22	\$ 0.16970	\$ 9.25	
(119) Oct-22	\$ 0.27085	\$ 8.37	
(120) Nov-22	\$ 0.27085	\$ 8.37	
(121) Dec-22	\$ 0.27085	\$ 8.37	

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 23-05-EL
In Re: Net Metering Excess Credits Tariff Advice 2023
Responses to MassAmerican Energy's Second Set of Data Requests
Issued on August 22, 2023

MAE 2-8

Request:

In additional response to MAE 1-9, please use last year's LRS rates calculate the impact of an annual average LRS rate on a representative solar net metering commercial customer based on last year's rates, and contrast that to the current monthly LRS valuation method.

Response:

The Company does not have a "representative solar net metering commercial customer." For purposes of this response and for the sake of an example of the proposed annual reconciliation, the Company has used the following simplifying characteristics and assumptions for a "representative solar net metering commercial customer":

- Rate Class C-06
- Both generation and consumption are separately known (i.e., more information is available than the simple net consumption amount)
- Over the course of a year, the customer consumes more than they generate for the months of January through March and September through October, and generates more than they consume for the months of May through August:

Month	Generation	Consumption	Net Consumption (Net Generation)
January	950	1,000	50
February	950	1,000	50
March	950	1,000	50
April	975	1,000	25
May	1,238	1,000	(238)
June	1,238	1,000	(238)
July	1,238	1,000	(238)
August	1,238	1,000	(238)
September	975	1,000	25
October	950	1,000	50
November	950	1,000	50
December	950	1,000	50
Total	12,600	12,000	(600)

Per the above table, the customer's annual generation is 105% of the customer's annual consumption.

MAE 2-8, page 2

Using rates in effect for 2022 and before the application of the annual reconciliation, the customer's net annual bill is \$224.24.

The customer's net annual bill including the annual reconciliation is \$284.28.

- Consistent with the discussion at the August 16, 2023 Technical Conference, the billing charges applied to the customer's excess generation are calculated using the weighted average of the Renewable Net Metering Credit and Excess Renewable Net Metering Credit in effect during the month the excess generation took place (i.e., it is not using a straight average of the Renewable Net Metering Credit and Excess Renewable Net Metering Credit but instead a weighted average, with that weighting reflecting the timing of the excess generation).

If the Renewable Net Metering Credit and the Excess Renewable Net Metering Credit were instead applied on the basis of their annual averages (including an annual average Last Resort Service (LRS) rate), the customer's net annual bill before the application of the annual reconciliation is \$195.59.

The customer's net annual bill under the same scenario including the annual reconciliation is \$254.33.

- For purposes of the calculation of the annual reconciliation, the billing charges in this scenario are calculated using the annual average Renewable Net Metering Credit and Excess Renewable Net Metering Credit.

The Company's supporting calculations are provided in Attachment MAE 2-8.

Please note that a Renewable Net Metering Credit and an Excess Renewable Net Metering Credit calculated on the basis of an annual average LRS rate is not consistent with the Company's Commission-approved Net Metering Provision, R.I.P.U.C. 2257. The Company believes the approved Net Metering Provision is consistent with the guiding principles adopted in R.I.P.U.C. Docket No. 4600, with the purpose of Rhode Island's net metering law as set out in § 39-26.4-1, and with Rhode Island's energy and climate policies. Furthermore, please note that, in months where a customer's consumption exceeds their generation, they pay the monthly LRS rate in effect for that month (i.e., not an annual average LRS rate).

(1) Generation to Consumption Ratio 105%

	(A)	(B)	(C)	(D) = (C) - (B)	(E) = MIN((D),0)	(F)	(G)	(H) Net Consumption		(I) Net Generation		(L)	(M)	(N) = (L) + (M)	(O)	(P) = (N) + [(N) x (O)]
Month	Generation (kWh)	Consumption (kWh)	Net Consumption (Net Generation) (kWh)	Excess Generation (kWh)	Excess Generation (Monthly % of Annual Total)	Customer Count	Total Charges (Volumetric)	Total Charges (Fixed)	Total Credits (Volumetric)	Total Charges (Fixed)	Volumetric Charges (Credits)	Fixed Charges	Net Bill	Gross Earnings Tax (GET) (%)	Net Bill (Including GET)	
(2) January	950	1,000	50	-	0%	1	\$ 0.20820	\$ 24.57	\$ 0.18286	\$ 24.57	\$ 10.41	\$ 24.57	\$ 34.98	4.166667%	\$ 36.44	
(3) February	950	1,000	50	-	0%	1	\$ 0.20929	\$ 24.57	\$ 0.18286	\$ 24.57	\$ 10.46	\$ 24.57	\$ 35.03	4.166667%	\$ 36.49	
(4) March	950	1,000	50	-	0%	1	\$ 0.20929	\$ 24.57	\$ 0.18286	\$ 24.57	\$ 10.46	\$ 24.57	\$ 35.03	4.166667%	\$ 36.49	
(5) April	975	1,000	25	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.16890	\$ 24.57	\$ 4.91	\$ 24.57	\$ 29.48	4.166667%	\$ 30.71	
(6) May	1,238	1,000	(238)	(238)	25%	1	\$ 0.19641	\$ 24.57	\$ 0.16890	\$ 24.57	\$ (40.11)	\$ 24.57	\$ (15.54)	4.166667%	\$ (16.19)	
(7) June	1,238	1,000	(238)	(238)	25%	1	\$ 0.19641	\$ 24.57	\$ 0.16890	\$ 24.57	\$ (40.11)	\$ 24.57	\$ (15.54)	4.166667%	\$ (16.19)	
(8) July	1,238	1,000	(238)	(238)	25%	1	\$ 0.19306	\$ 24.57	\$ 0.16976	\$ 24.57	\$ (40.32)	\$ 24.57	\$ (15.75)	4.166667%	\$ (16.40)	
(9) August	1,238	1,000	(238)	(238)	25%	1	\$ 0.19306	\$ 24.57	\$ 0.16976	\$ 24.57	\$ (40.32)	\$ 24.57	\$ (15.75)	4.166667%	\$ (16.40)	
(10) September	975	1,000	25	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.16976	\$ 24.57	\$ 4.83	\$ 24.57	\$ 29.40	4.166667%	\$ 30.62	
(11) October	950	1,000	50	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.27159	\$ 23.23	\$ 14.74	\$ 23.23	\$ 37.97	4.166667%	\$ 39.56	
(12) November	950	1,000	50	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.27159	\$ 23.23	\$ 14.74	\$ 23.23	\$ 37.97	4.166667%	\$ 39.56	
(13) December	950	1,000	50	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.27159	\$ 23.23	\$ 14.74	\$ 23.23	\$ 37.97	4.166667%	\$ 39.56	
(14) Total	12,600	12,000	(600)	(950)	100%	12					\$ (75.55)	\$ 290.82	\$ 215.27		\$ 224.24	

(A)	(Q) = (I)	(R)	(S)	(T)
Month	Renewable Net Metering Credit	Excess Renewable Net Metering Credit	Tier 1 Billing Charge (\$/kWh)	Tier 2 Billing Charge (\$/kWh)
(15) January	\$ 0.18286	\$ 0.09509	\$ -	\$ -
(16) February	\$ 0.18286	\$ 0.09509	\$ -	\$ -
(17) March	\$ 0.18286	\$ 0.09509	\$ -	\$ -
(18) April	\$ 0.16890	\$ 0.07326	\$ -	\$ -
(19) May	\$ 0.16890	\$ 0.07326	\$ 0.02391	\$ 0.04223
(20) June	\$ 0.16890	\$ 0.07326	\$ 0.02391	\$ 0.04223
(21) July	\$ 0.16976	\$ 0.07326	\$ 0.02413	\$ 0.04244
(22) August	\$ 0.16976	\$ 0.07326	\$ 0.02413	\$ 0.04244
(23) September	\$ 0.16976	\$ 0.07326	\$ -	\$ -
(24) October	\$ 0.27159	\$ 0.17558	\$ -	\$ -
(25) November	\$ 0.27159	\$ 0.17558	\$ -	\$ -
(26) December	\$ 0.27159	\$ 0.17558	\$ -	\$ -
(27) Total			\$ 0.09607	\$ 0.16933

- (28) Tier 2 Billing Charge (> 125%) kWh - = MAX[Column (B), Line (14) - [Column (C), Line (14) x 1.25],0]
(29) Tier 1 Billing Charge (100% - 125%) kWh 600 = Column (B), Line (14) - Column (C), Line (14) - Line (28)
- (30) Tier 1 Billing Charge (\$/kWh) \$ 0.09607 = Column (S), Line (27)
(31) Tier 2 Billing Charge (\$/kWh) \$ 0.16933 = Column (T), Line (27)
- (32) Tier 1 Billing Charge \$ 57.64 = Line (29) x Line (30)
(33) Tier 2 Billing Charge \$ - = Line (28) x Line (31)
(34) Total Billing Charges \$ 57.64 = Line (32) + Line (33)
- (35) Gross Earnings Tax (GET) (%) 4.166667%
- (36) Total Billing Charges Including GET \$ 60.04 = Line (34) + [Line (34) x Line (35)]
- (37) Total Annual Bill \$ 284.28 = Column (P), Line (14) + Line (36)

Notes:
(F) For Column (F), Line (2): Column (E), Line (2) + Column (E), Line (14); and so on.
(H) See Page 5, Column (LL).
(I) See Page 5, Column (MM).
(J) See Page 6, Column (NN).
(K) See Page 6, Column (OO).
(L) If (D) >= 0, then (D) x (H); if D < 0, then (D) x (J).
(M) If (D) >= 0, then (G) x (I); if D < 0, then (G) x (K).
(R) See Page 5, Column (KK).
(S) = -(R) - (Q) x (F)
(T) = (Q) x (F)

(1) Generation to Consumption Ratio 105%

	(A)	(B)	(C)	(D) = (C) - (B)	(E) = MIN((D),0)	(F)	(G)	(H) Net Consumption		(I) Net Generation		(L)	(M)	(N) = (L) + (M)	(O)	(P) = (N) + [(N) x (O)]
Month	Generation (kWh)	Consumption (kWh)	Net Consumption (Net Generation) (kWh)	Excess Generation (kWh)	Excess Generation (Monthly % of Annual Total)	Customer Count	Total Charges (Volumetric)	Total Charges (Fixed)	Total Credits (Volumetric)	Total Charges (Fixed)	Volumetric Charges (Credits)	Fixed Charges	Net Bill	Gross Earnings Tax (GET) (%)	Net Bill (Including GET)	
(2) January	950	1,000	50	-	0%	1	\$ 0.20820	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 10.41	\$ 24.57	\$ 34.98	4.166667%	\$ 36.44	
(3) February	950	1,000	50	-	0%	1	\$ 0.20929	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 10.46	\$ 24.57	\$ 35.03	4.166667%	\$ 36.49	
(4) March	950	1,000	50	-	0%	1	\$ 0.20929	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 10.46	\$ 24.57	\$ 35.03	4.166667%	\$ 36.49	
(5) April	975	1,000	25	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 4.91	\$ 24.57	\$ 29.48	4.166667%	\$ 30.71	
(6) May	1,238	1,000	(238)	(238)	25%	1	\$ 0.19641	\$ 24.57	\$ 0.19828	\$ 24.57	\$ (47.09)	\$ 24.57	\$ (22.52)	4.166667%	\$ (23.46)	
(7) June	1,238	1,000	(238)	(238)	25%	1	\$ 0.19641	\$ 24.57	\$ 0.19828	\$ 24.57	\$ (47.09)	\$ 24.57	\$ (22.52)	4.166667%	\$ (23.46)	
(8) July	1,238	1,000	(238)	(238)	25%	1	\$ 0.19306	\$ 24.57	\$ 0.19828	\$ 24.57	\$ (47.09)	\$ 24.57	\$ (22.52)	4.166667%	\$ (23.46)	
(9) August	1,238	1,000	(238)	(238)	25%	1	\$ 0.19306	\$ 24.57	\$ 0.19828	\$ 24.57	\$ (47.09)	\$ 24.57	\$ (22.52)	4.166667%	\$ (23.46)	
(10) September	975	1,000	25	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 4.83	\$ 24.57	\$ 29.40	4.166667%	\$ 30.62	
(11) October	950	1,000	50	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.19828	\$ 23.23	\$ 14.74	\$ 23.23	\$ 37.97	4.166667%	\$ 39.56	
(12) November	950	1,000	50	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.19828	\$ 23.23	\$ 14.74	\$ 23.23	\$ 37.97	4.166667%	\$ 39.56	
(13) December	950	1,000	50	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.19828	\$ 23.23	\$ 14.74	\$ 23.23	\$ 37.97	4.166667%	\$ 39.56	
(14) Total	12,600	12,000	(600)	(950)	100%	12					\$ (103.05)	\$ 290.82	\$ 187.77		\$ 195.59	

(A)	(Q) = (I)	(R)	(S)	(T)
Month	Renewable Net Metering Credit	Excess Renewable Net Metering Credit	Tier 1 Billing Charge (\$/kWh)	Tier 2 Billing Charge (\$/kWh)
(15) January	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(16) February	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(17) March	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(18) April	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(19) May	\$ 0.19828	\$ 0.10430	\$ 0.02350	\$ 0.04957
(20) June	\$ 0.19828	\$ 0.10430	\$ 0.02350	\$ 0.04957
(21) July	\$ 0.19828	\$ 0.10430	\$ 0.02350	\$ 0.04957
(22) August	\$ 0.19828	\$ 0.10430	\$ 0.02350	\$ 0.04957
(23) September	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(24) October	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(25) November	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(26) December	\$ 0.19828	\$ 0.10430	\$ -	\$ -
(27) Total			\$ 0.09398	\$ 0.19828

- (28) Tier 2 Billing Charge (> 125%) kWh - = MAX[Column (B), Line (14) - [Column (C), Line (14) x 1.25],0]
(29) Tier 1 Billing Charge (100% - 125%) kWh 600 = Column (B), Line (14) - Column (C), Line (14) - Line (28)
- (30) Tier 1 Billing Charge (\$/kWh) \$ 0.09398 = Column (S), Line (27)
(31) Tier 2 Billing Charge (\$/kWh) \$ 0.19828 = Column (T), Line (27)
- (32) Tier 1 Billing Charge \$ 56.39 = Line (29) x Line (30)
(33) Tier 2 Billing Charge \$ - = Line (28) x Line (31)
(34) Total Billing Charges \$ 56.39 = Line (32) + Line (33)
- (35) Gross Earnings Tax (GET) (%) 4.166667%
- (36) Total Billing Charges Including GET \$ 58.74 = Line (34) + [Line (34) x Line (35)]
- (37) Total Annual Bill \$ 254.33 = Column (P), Line (14) + Line (36)

Notes:
(F) For Column (F), Line (2): Column (E), Line (2) ÷ Column (E), Line (14); and so on.
(H) See Page 5, Column (LL).
(I) See Page 5, Column (MM).
(J) For all months: See Page 5, Column (JJ), Line (97).
(K) See Page 6, Column (OO).
(L) If (D) >= 0: then (D) x (H); if D < 0, then (D) x (I).
(M) If (D) >= 0: then (G) x (I); if D < 0, then (G) x (K).
(R) For all months: See Page 5, Column (KK), Line (97).
(S) = -(R) - (Q) x (F)
(T) = (Q) x (F)

Rate Class C-06: Rates in Effect (2022)

Month-Year	(A)	(B)		(C)
	Distribution Customer Charge	Fixed Charges		RE Growth Charge
		LIHEAP Enhancement Charge		
(1) Jan-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(2) Feb-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(3) Mar-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(4) Apr-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(5) May-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(6) Jun-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(7) Jul-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(8) Aug-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(9) Sep-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(10) Oct-22	\$ 20.00	\$ 0.79	\$	\$ 2.44
(11) Nov-22	\$ 20.00	\$ 0.79	\$	\$ 2.44
(12) Dec-22	\$ 20.00	\$ 0.79	\$	\$ 2.44

Month-Year	(D)	(E)	(F)	(G)	(H) = (D) + (E) + (F)
	Last Resort Service Base Charge	Last Resort Service Adjustment	Last Resort Service Admin. Cost Factor	Renewable Energy Standard Charge	Last Resort Service Total
(13) Jan-22	\$ 0.08730	\$ 0.00568	\$ 0.00211	\$ 0.00665	\$ 0.10174
(14) Feb-22	\$ 0.08730	\$ 0.00568	\$ 0.00211	\$ 0.00665	\$ 0.10174
(15) Mar-22	\$ 0.08730	\$ 0.00568	\$ 0.00211	\$ 0.00665	\$ 0.10174
(16) Apr-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(17) May-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(18) Jun-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(19) Jul-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(20) Aug-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(21) Sep-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(22) Oct-22	\$ 0.16683	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.18279
(23) Nov-22	\$ 0.16683	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.18279
(24) Dec-22	\$ 0.16683	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.18279

Month-Year	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T) = SUM((I)-(S))
	Distribution Charge	Operating and Maintenance Expense Charge	O&M Reconciliation Factor	CapEx Factor Charge	CapEx Reconciliation Factor	RDM Adj. Factor	Pension Adjustment Factor	Storm Fund Replenishment Factor	Arrearage Management Adjustment Factor	Low-Income Discount Recovery Factor	Performance Incentive Factor	Billing Distribution Charge
(25) Jan-22	\$ 0.04482	\$ 0.00201	\$ (0.00010)	\$ 0.00456	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05592
(26) Feb-22	\$ 0.04482	\$ 0.00201	\$ (0.00010)	\$ 0.00456	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05592
(27) Mar-22	\$ 0.04482	\$ 0.00201	\$ (0.00010)	\$ 0.00456	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05592
(28) Apr-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06189
(29) May-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06189
(30) Jun-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06189
(31) Jul-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06275
(32) Aug-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06275
(33) Sep-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06275
(34) Oct-22	\$ 0.04482	\$ 0.00211	\$ -	\$ 0.00543	\$ (0.00007)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06226
(35) Nov-22	\$ 0.04482	\$ 0.00211	\$ -	\$ 0.00543	\$ (0.00007)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06226
(36) Dec-22	\$ 0.04482	\$ 0.00211	\$ -	\$ 0.00543	\$ (0.00007)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06226

Rate Class C-06: Rates in Effect (2022)

		(U)	(V)	(W)	(X) = (U) + (V) + (W)	
		Transmission				
Month-Year	Base Transmission Charge	Transmission Adjustment	Transmission Uncollectible Factor	Transmission		
(37)	Jan-22	\$ 0.03470	\$ (0.00179)	\$ 0.00039	\$	0.03330
(38)	Feb-22	\$ 0.03470	\$ (0.00179)	\$ 0.00039	\$	0.03330
(39)	Mar-22	\$ 0.03470	\$ (0.00179)	\$ 0.00039	\$	0.03330
(40)	Apr-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(41)	May-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(42)	Jun-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(43)	Jul-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(44)	Aug-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(45)	Sep-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(46)	Oct-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(47)	Nov-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357
(48)	Dec-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$	0.03357

		(Y)	(Z)	(AA) = (Y) + (Z)	
		Transition			
Month-Year	Base Transition Charge	Transition Charge Adjustment	Transition		
(49)	Jan-22	\$ (0.00149)	\$ 0.00004	\$	(0.00145)
(50)	Feb-22	\$ (0.00149)	\$ 0.00004	\$	(0.00145)
(51)	Mar-22	\$ (0.00149)	\$ 0.00004	\$	(0.00145)
(52)	Apr-22	\$ -	\$ 0.00018	\$	0.00018
(53)	May-22	\$ -	\$ 0.00018	\$	0.00018
(54)	Jun-22	\$ -	\$ 0.00018	\$	0.00018
(55)	Jul-22	\$ -	\$ 0.00018	\$	0.00018
(56)	Aug-22	\$ -	\$ 0.00018	\$	0.00018
(57)	Sep-22	\$ -	\$ 0.00018	\$	0.00018
(58)	Oct-22	\$ -	\$ 0.00018	\$	0.00018
(59)	Nov-22	\$ -	\$ 0.00018	\$	0.00018
(60)	Dec-22	\$ -	\$ 0.00018	\$	0.00018

		(BB)	(CC)	(DD) = (BB) + (CC)	
		Renewable Energy Distribution			
Month-Year	Net Metering Charge	Long-Term Contracting	Renewable Energy Distribution Charge		
(61)	Jan-22	\$ 0.00436	\$ 0.00290	\$	0.00726
(62)	Feb-22	\$ 0.00436	\$ 0.00290	\$	0.00726
(63)	Mar-22	\$ 0.00436	\$ 0.00290	\$	0.00726
(64)	Apr-22	\$ 0.00488	\$ 0.00290	\$	0.00778
(65)	May-22	\$ 0.00488	\$ 0.00290	\$	0.00778
(66)	Jun-22	\$ 0.00488	\$ 0.00290	\$	0.00778
(67)	Jul-22	\$ 0.00488	\$ (0.00131)	\$	0.00357
(68)	Aug-22	\$ 0.00488	\$ (0.00131)	\$	0.00357
(69)	Sep-22	\$ 0.00488	\$ (0.00131)	\$	0.00357
(70)	Oct-22	\$ 0.00488	\$ (0.00131)	\$	0.00357
(71)	Nov-22	\$ 0.00488	\$ (0.00131)	\$	0.00357
(72)	Dec-22	\$ 0.00488	\$ (0.00131)	\$	0.00357

Rate Class C-06: Rates in Effect (2022)

Month-Year	(EE)	(FF)	(GG)	(HH)	(II) = SUM[(EE):(HH)]
	Energy Efficiency Program Charge	System Reliability Plan Charge	Renewables Charge	EE & SRP Uncollectible Charge	Total Energy Efficiency Charge
(73) Jan-22	\$ 0.01099	\$ -	\$ 0.00030	\$ 0.00014	\$ 0.01143
(74) Feb-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(75) Mar-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(76) Apr-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(77) May-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(78) Jun-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(79) Jul-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(80) Aug-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(81) Sep-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(82) Oct-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(83) Nov-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(84) Dec-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252

(JJ) = (D) + (E) + (F) + (T) +
(X) + (AA) (KK) = (D) + (E) + (F)

Month-Year	Renewable Net Metering Credit	Excess Renewable Net Metering Credit
(85) Jan-22	\$ 0.18286	\$ 0.09509
(86) Feb-22	\$ 0.18286	\$ 0.09509
(87) Mar-22	\$ 0.18286	\$ 0.09509
(88) Apr-22	\$ 0.16890	\$ 0.07326
(89) May-22	\$ 0.16890	\$ 0.07326
(90) Jun-22	\$ 0.16890	\$ 0.07326
(91) Jul-22	\$ 0.16976	\$ 0.07326
(92) Aug-22	\$ 0.16976	\$ 0.07326
(93) Sep-22	\$ 0.16976	\$ 0.07326
(94) Oct-22	\$ 0.27159	\$ 0.17558
(95) Nov-22	\$ 0.27159	\$ 0.17558
(96) Dec-22	\$ 0.27159	\$ 0.17558
(97) Average	\$ 0.19828	\$ 0.10430

(LL) = (H) + (T) + (AA) +
(DD) + (II) (MM) = (A) + (B) + (C)

Month-Year	Net Consumption	
	Total Charges (Volumetric)	Total Charges (Fixed)
(98) Jan-22	\$ 0.20820	\$ 24.57
(99) Feb-22	\$ 0.20929	\$ 24.57
(100) Mar-22	\$ 0.20929	\$ 24.57
(101) Apr-22	\$ 0.19641	\$ 24.57
(102) May-22	\$ 0.19641	\$ 24.57
(103) Jun-22	\$ 0.19641	\$ 24.57
(104) Jul-22	\$ 0.19306	\$ 24.57
(105) Aug-22	\$ 0.19306	\$ 24.57
(106) Sep-22	\$ 0.19306	\$ 24.57
(107) Oct-22	\$ 0.29489	\$ 23.23
(108) Nov-22	\$ 0.29489	\$ 23.23
(109) Dec-22	\$ 0.29489	\$ 23.23

Rate Class C-06: Rates in Effect (2022)

(NN) = (JJ) (OO) = (MM)

Month-Year	Net Generation	
	Total Credits (Volumetric)	Total Charges (Fixed)
(110) Jan-22	\$ 0.18286	\$ 24.57
(111) Feb-22	\$ 0.18286	\$ 24.57
(112) Mar-22	\$ 0.18286	\$ 24.57
(113) Apr-22	\$ 0.16890	\$ 24.57
(114) May-22	\$ 0.16890	\$ 24.57
(115) Jun-22	\$ 0.16890	\$ 24.57
(116) Jul-22	\$ 0.16976	\$ 24.57
(117) Aug-22	\$ 0.16976	\$ 24.57
(118) Sep-22	\$ 0.16976	\$ 24.57
(119) Oct-22	\$ 0.27159	\$ 23.23
(120) Nov-22	\$ 0.27159	\$ 23.23
(121) Dec-22	\$ 0.27159	\$ 23.23

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 23-05-EL
In Re: Net Metering Excess Credits Tariff Advice 2023
Responses to MassAmerican Energy's Second Set of Data Requests
Issued on August 22, 2023

MAE 2-9

Request:

In additional response to MAE 1-9, please use last year's LRS rates to calculate the impact of an annual average LRS rate on a representative wind energy net metering commercial customer, and contrast that to the current monthly LRS valuation method.

Response:

The Company does not have a “representative solar wind energy metering commercial customer.” For purposes of this response and for the sake of an example of the proposed annual reconciliation, the Company has used the following simplifying characteristics and assumptions for a “representative wind energy net metering commercial customer”:

- Rate Class C-06
- Both generation and consumption are separately known (i.e., more information is available than the simple net consumption amount)
- Over the course of a year, the customer consumes more than they generate for the months of March through October, and generates more than they consume for the months of November through February:

Month	Generation (kWh)	Consumption (kWh)
January	1,238	1,000
February	1,238	1,000
March	975	1,000
April	950	1,000
May	950	1,000
June	950	1,000
July	950	1,000
August	950	1,000
September	950	1,000
October	975	1,000
November	1,238	1,000
December	1,238	1,000
Total	12,600	12,000

MAE 2-9, page 2

Per the above table, the customer's annual generation is 105% of the customer's annual consumption.

Using rates in effect for 2022 and before the application of the annual reconciliation, the customer's net annual bill is \$152.06.

The customer's net annual bill including the annual reconciliation is \$209.50.

- Consistent with the discussion at the August 16, 2023 Technical Conference, the billing charges applied to the customer's excess generation are calculated using the weighted average of the Renewable Net Metering Credit and Excess Renewable Net Metering Credit in effect during the month the excess generation took place (i.e., it is not using a straight average of the Renewable Net Metering Credit and Excess Renewable Net Metering Credit but instead a weighted average, with that weighting reflecting the timing of the excess generation).

If the Renewable Net Metering Credit and the Excess Renewable Net Metering Credit were instead applied on the basis of their annual averages (including an annual average Last Resort Service (LRS) rate), the customer's net annual bill before the application of the annual reconciliation is \$180.71.

The customer's net annual bill under the same scenario including the annual reconciliation is \$239.45.

- For purposes of the calculation of the annual reconciliation, the billing charges in this scenario are calculated using the annual average Renewable Net Metering Credit and Excess Renewable Net Metering Credit.

The Company's supporting calculations are provided in Attachment MAE 2-9.

Please note that a Renewable Net Metering Credit and an Excess Renewable Net Metering Credit calculated on the basis of an annual average LRS rate is not consistent with the Company's Commission-approved Net Metering Provision, R.I.P.U.C. 2257. The Company believes the approved Net Metering Provision is consistent with the guiding principles adopted in R.I.P.U.C. Docket No. 4600, with the purpose of Rhode Island's net metering law as set out in § 39-26.4-1, and with Rhode Island's energy and climate policies. Furthermore, please note that, in months where a customer's consumption exceeds their generation, they pay the monthly LRS rate in effect for that month (i.e., not an annual average LRS rate).

(1) Generation to Consumption Ratio 105%

	(A)	(B)	(C)	(D) = (C) - (B)	(E) = MIN((D),0)	(F)	(G)	(H) Net Consumption		(I) Net Generation		(L)	(M)	(N) = (L) + (M)	(O)	(P) = (N) + [(N) x (O)]
	Month	Generation (kWh)	Consumption (kWh)	Net Consumption (Net Generation) (kWh)	Excess Generation (kWh)	Excess Generation (Monthly % of Annual Total)	Customer Count	Total Charges (Volumetric)	Total Charges (Fixed)	Total Credits (Volumetric)	Total Charges (Fixed)	Volumetric Charges (Credits)	Fixed Charges	Net Bill	Gross Earnings Tax (GET) (%)	Net Bill (Including GET)
(2)	January	1,238	1,000	(238)	(238)	25%	1	\$ 0.20820	\$ 24.57	\$ 0.18286	\$ 24.57	\$ (43.43)	\$ 24.57	\$ (18.86)	4.166667%	\$ (19.65)
(3)	February	1,238	1,000	(238)	(238)	25%	1	\$ 0.20929	\$ 24.57	\$ 0.18286	\$ 24.57	\$ (43.43)	\$ 24.57	\$ (18.86)	4.166667%	\$ (19.65)
(4)	March	975	1,000	25	-	0%	1	\$ 0.20929	\$ 24.57	\$ 0.18286	\$ 24.57	\$ 5.23	\$ 24.57	\$ 29.80	4.166667%	\$ 31.04
(5)	April	950	1,000	50	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.16890	\$ 24.57	\$ 9.82	\$ 24.57	\$ 34.39	4.166667%	\$ 35.82
(6)	May	950	1,000	50	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.16890	\$ 24.57	\$ 9.82	\$ 24.57	\$ 34.39	4.166667%	\$ 35.82
(7)	June	950	1,000	50	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.16890	\$ 24.57	\$ 9.82	\$ 24.57	\$ 34.39	4.166667%	\$ 35.82
(8)	July	950	1,000	50	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.16976	\$ 24.57	\$ 9.65	\$ 24.57	\$ 34.22	4.166667%	\$ 35.65
(9)	August	950	1,000	50	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.16976	\$ 24.57	\$ 9.65	\$ 24.57	\$ 34.22	4.166667%	\$ 35.65
(10)	September	950	1,000	50	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.16976	\$ 24.57	\$ 9.65	\$ 24.57	\$ 34.22	4.166667%	\$ 35.65
(11)	October	975	1,000	25	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.27159	\$ 23.23	\$ 7.37	\$ 23.23	\$ 30.60	4.166667%	\$ 31.88
(12)	November	1,238	1,000	(238)	(238)	25%	1	\$ 0.29489	\$ 23.23	\$ 0.27159	\$ 23.23	\$ (64.50)	\$ 23.23	\$ (41.27)	4.166667%	\$ (42.99)
(13)	December	1,238	1,000	(238)	(238)	25%	1	\$ 0.29489	\$ 23.23	\$ 0.27159	\$ 23.23	\$ (64.50)	\$ 23.23	\$ (41.27)	4.166667%	\$ (42.99)
(14)	Total	12,600	12,000	(600)	(950)	100%	12					\$ (144.84)	\$ 290.82	\$ 145.98		\$ 152.06

	(A)	(Q) = (I)	(R)
	Month	Renewable Net Metering Credit	Excess Renewable Net Metering Credit
(15)	January	\$ 0.18286	\$ 0.09509
(16)	February	\$ 0.18286	\$ 0.09509
(17)	March	\$ 0.18286	\$ 0.09509
(18)	April	\$ 0.16890	\$ 0.07326
(19)	May	\$ 0.16890	\$ 0.07326
(20)	June	\$ 0.16890	\$ 0.07326
(21)	July	\$ 0.16976	\$ 0.07326
(22)	August	\$ 0.16976	\$ 0.07326
(23)	September	\$ 0.16976	\$ 0.07326
(24)	October	\$ 0.27159	\$ 0.17558
(25)	November	\$ 0.27159	\$ 0.17558
(26)	December	\$ 0.27159	\$ 0.17558
(27)	Total		

	(S)	(T)
	Tier 1 Billing Charge (\$/kWh)	Tier 2 Billing Charge (\$/kWh)
(15)	\$ 0.02194	\$ 0.04572
(16)	\$ 0.02194	\$ 0.04572
(17)	\$ -	\$ -
(18)	\$ -	\$ -
(19)	\$ -	\$ -
(20)	\$ -	\$ -
(21)	\$ -	\$ -
(22)	\$ -	\$ -
(23)	\$ -	\$ -
(24)	\$ -	\$ -
(25)	\$ 0.02400	\$ 0.06790
(26)	\$ 0.02400	\$ 0.06790
(27)	\$ 0.09189	\$ 0.22723

- (28) Tier 2 Billing Charge (> 125%) kWh - = MAX[Column (B), Line (14) - [Column (C), Line (14) x 1.25],0]
(29) Tier 1 Billing Charge (100% - 125%) kWh 600 = Column (B), Line (14) - Column (C), Line (14) - Line (28)
- (30) Tier 1 Billing Charge (\$/kWh) \$ 0.09189 = Column (S), Line (27)
(31) Tier 2 Billing Charge (\$/kWh) \$ 0.22723 = Column (T), Line (27)
- (32) Tier 1 Billing Charge \$ 55.13 = Line (29) x Line (30)
(33) Tier 2 Billing Charge \$ - = Line (28) x Line (31)
(34) Total Billing Charges \$ 55.13 = Line (32) + Line (33)
- (35) Gross Earnings Tax (GET) (%) 4.166667%
- (36) Total Billing Charges Including GET \$ 57.43 = Line (34) + [Line (34) x Line (35)]
- (37) Total Annual Bill \$ 209.50 = Column (P), Line (14) + Line (36)

Notes:
(F) For Column (F), Line (2): Column (E), Line (2) ÷ Column (E), Line (14); and so on.
(H) See Page 5, Column (LL).
(I) See Page 5, Column (MM).
(J) See Page 6, Column (NN).
(K) See Page 6, Column (OO).
(L) If (D) >= 0, then (D) x (H); if D < 0, then (D) x (J).
(M) If (D) >= 0, then (G) x (I); if D < 0, then (G) x (K).
(R) See Page 5, Column (KK).
(S) = -(R) - (Q) x (F)
(T) = (Q) x (F)

(1) Generation to Consumption Ratio 105%

	(A)	(B)	(C)	(D) = (C) - (B)	(E) = MIN((D),0)	(F)	(G)	(H) Net Consumption		(J) Net Generation		(L)	(M)	(N) = (L) + (M)	(O)	(P) = (N) + [(N) x (O)]
	Month	Generation (kWh)	Consumption (kWh)	Net Consumption (Net Generation) (kWh)	Excess Generation (kWh)	Excess Generation (Monthly % of Annual Total)	Customer Count	Total Charges (Volumetric)	Total Charges (Fixed)	Total Credits (Volumetric)	Total Charges (Fixed)	Volumetric Charges (Credits)	Fixed Charges	Net Bill	Gross Earnings Tax (GET) (%)	Net Bill (Including GET)
(2)	January	1,238	1,000	(238)	(238)	25%	1	\$ 0.20820	\$ 24.57	\$ 0.19828	\$ 24.57	\$ (47.09)	\$ 24.57	\$ (22.52)	4.166667%	\$ (23.46)
(3)	February	1,238	1,000	(238)	(238)	25%	1	\$ 0.20929	\$ 24.57	\$ 0.19828	\$ 24.57	\$ (47.09)	\$ 24.57	\$ (22.52)	4.166667%	\$ (23.46)
(4)	March	975	1,000	25	-	0%	1	\$ 0.20929	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 5.23	\$ 24.57	\$ 29.80	4.166667%	\$ 31.04
(5)	April	950	1,000	50	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 9.82	\$ 24.57	\$ 34.39	4.166667%	\$ 35.82
(6)	May	950	1,000	50	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 9.82	\$ 24.57	\$ 34.39	4.166667%	\$ 35.82
(7)	June	950	1,000	50	-	0%	1	\$ 0.19641	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 9.82	\$ 24.57	\$ 34.39	4.166667%	\$ 35.82
(8)	July	950	1,000	50	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 9.65	\$ 24.57	\$ 34.22	4.166667%	\$ 35.65
(9)	August	950	1,000	50	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 9.65	\$ 24.57	\$ 34.22	4.166667%	\$ 35.65
(10)	September	950	1,000	50	-	0%	1	\$ 0.19306	\$ 24.57	\$ 0.19828	\$ 24.57	\$ 9.65	\$ 24.57	\$ 34.22	4.166667%	\$ 35.65
(11)	October	975	1,000	25	-	0%	1	\$ 0.29489	\$ 23.23	\$ 0.19828	\$ 23.23	\$ 7.37	\$ 23.23	\$ 30.60	4.166667%	\$ 31.88
(12)	November	1,238	1,000	(238)	(238)	25%	1	\$ 0.29489	\$ 23.23	\$ 0.19828	\$ 23.23	\$ (47.09)	\$ 23.23	\$ (23.86)	4.166667%	\$ (24.86)
(13)	December	1,238	1,000	(238)	(238)	25%	1	\$ 0.29489	\$ 23.23	\$ 0.19828	\$ 23.23	\$ (47.09)	\$ 23.23	\$ (23.86)	4.166667%	\$ (24.86)
(14)	Total	12,600	12,000	(600)	(950)	100%	12					\$ (117.34)	\$ 290.82	\$ 173.48		\$ 180.71

	(A)	(Q) = (I)	(R)
	Month	Renewable Net Metering Credit	Excess Renewable Net Metering Credit
(15)	January	\$ 0.19828	\$ 0.10430
(16)	February	\$ 0.19828	\$ 0.10430
(17)	March	\$ 0.19828	\$ 0.10430
(18)	April	\$ 0.19828	\$ 0.10430
(19)	May	\$ 0.19828	\$ 0.10430
(20)	June	\$ 0.19828	\$ 0.10430
(21)	July	\$ 0.19828	\$ 0.10430
(22)	August	\$ 0.19828	\$ 0.10430
(23)	September	\$ 0.19828	\$ 0.10430
(24)	October	\$ 0.19828	\$ 0.10430
(25)	November	\$ 0.19828	\$ 0.10430
(26)	December	\$ 0.19828	\$ 0.10430
(27)	Total		

	(S)	(T)
	Tier 1 Billing Charge (\$/kWh)	Tier 2 Billing Charge (\$/kWh)
(15)	\$ 0.02350	\$ 0.04957
(16)	\$ 0.02350	\$ 0.04957
(17)	\$ -	\$ -
(18)	\$ -	\$ -
(19)	\$ -	\$ -
(20)	\$ -	\$ -
(21)	\$ -	\$ -
(22)	\$ -	\$ -
(23)	\$ -	\$ -
(24)	\$ -	\$ -
(25)	\$ 0.02350	\$ 0.04957
(26)	\$ 0.02350	\$ 0.04957
(27)	\$ 0.09398	\$ 0.19828

(28)	Tier 2 Billing Charge (> 125%) kWh	-	= MAX[Column (B), Line (14) - [Column (C), Line (14) x 1.25],0]
(29)	Tier 1 Billing Charge (100% - 125%) kWh	600	= Column (B), Line (14) - Column (C), Line (14) - Line (28)
(30)	Tier 1 Billing Charge (\$/kWh)	\$ 0.09398	= Column (S), Line (27)
(31)	Tier 2 Billing Charge (\$/kWh)	\$ 0.19828	= Column (T), Line (27)
(32)	Tier 1 Billing Charge	\$ 56.39	= Line (29) x Line (30)
(33)	Tier 2 Billing Charge	\$ -	= Line (28) x Line (31)
(34)	Total Billing Charges	\$ 56.39	= Line (32) + Line (33)
(35)	Gross Earnings Tax (GET) (%)	4.166667%	
(36)	Total Billing Charges Including GET	\$ 58.74	= Line (34) + [Line (34) x Line (35)]
(37)	Total Annual Bill	\$ 239.45	= Column (P), Line (14) + Line (36)

Notes:

- (F) For Column (F), Line (2): Column (E), Line (2) + Column (E), Line (14); and so on.
- (H) See Page 5, Column (LL).
- (I) See Page 5, Column (MM).
- (J) For all months: See Page 5, Column (JJ), Line (97).
- (K) See Page 6, Column (OO).
- (L) If (D) >= 0: then (D) x (H); if D < 0, then (D) x (J).
- (M) If (D) >= 0: then (G) x (I); if D < 0, then (G) x (K).
- (R) For all months: See Page 5, Column (KK), Line (97).
- (S) = -(R) - (Q) x (F)
- (T) = (Q) x (F)

Rate Class C-06: Rates in Effect (2022)

Month-Year	(A)	(B)		(C)
	Distribution Customer Charge	Fixed Charges		RE Growth Charge
		LIHEAP Enhancement Charge		
(1) Jan-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(2) Feb-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(3) Mar-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(4) Apr-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(5) May-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(6) Jun-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(7) Jul-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(8) Aug-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(9) Sep-22	\$ 20.00	\$ 0.79	\$	\$ 3.78
(10) Oct-22	\$ 20.00	\$ 0.79	\$	\$ 2.44
(11) Nov-22	\$ 20.00	\$ 0.79	\$	\$ 2.44
(12) Dec-22	\$ 20.00	\$ 0.79	\$	\$ 2.44

Month-Year	(D)	(E)	(F)	(G)	(H) = (D) + (E) + (F)
	Last Resort Service Base Charge	Last Resort Service Adjustment	Last Resort Service Admin. Cost Factor	Renewable Energy Standard Charge	Last Resort Service Total
(13) Jan-22	\$ 0.08730	\$ 0.00568	\$ 0.00211	\$ 0.00665	\$ 0.10174
(14) Feb-22	\$ 0.08730	\$ 0.00568	\$ 0.00211	\$ 0.00665	\$ 0.10174
(15) Mar-22	\$ 0.08730	\$ 0.00568	\$ 0.00211	\$ 0.00665	\$ 0.10174
(16) Apr-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(17) May-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(18) Jun-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(19) Jul-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(20) Aug-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(21) Sep-22	\$ 0.06451	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.08047
(22) Oct-22	\$ 0.16683	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.18279
(23) Nov-22	\$ 0.16683	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.18279
(24) Dec-22	\$ 0.16683	\$ 0.00665	\$ 0.00210	\$ 0.00721	\$ 0.18279

Month-Year	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T) = SUM((I)-(S))
	Distribution Charge	Operating and Maintenance Expense Charge	O&M Reconciliation Factor	CapEx Factor Charge	CapEx Reconciliation Factor	RDM Adj. Factor	Pension Adjustment Factor	Storm Fund Replenishment Factor	Arrearage Management Adjustment Factor	Low-Income Discount Recovery Factor	Performance Incentive Factor	Billing Distribution Charge
(25) Jan-22	\$ 0.04482	\$ 0.00201	\$ (0.00010)	\$ 0.00456	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05592
(26) Feb-22	\$ 0.04482	\$ 0.00201	\$ (0.00010)	\$ 0.00456	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05592
(27) Mar-22	\$ 0.04482	\$ 0.00201	\$ (0.00010)	\$ 0.00456	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00288	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.05592
(28) Apr-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06189
(29) May-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06189
(30) Jun-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00042)	\$ (0.00006)	\$ 0.00788	\$ 0.00006	\$ 0.00196	\$ 0.00008	\$ 0.06189
(31) Jul-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06275
(32) Aug-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06275
(33) Sep-22	\$ 0.04482	\$ 0.00211	\$ (0.00010)	\$ 0.00543	\$ 0.00013	\$ (0.00003)	\$ (0.00006)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06275
(34) Oct-22	\$ 0.04482	\$ 0.00211	\$ -	\$ 0.00543	\$ (0.00007)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06226
(35) Nov-22	\$ 0.04482	\$ 0.00211	\$ -	\$ 0.00543	\$ (0.00007)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06226
(36) Dec-22	\$ 0.04482	\$ 0.00211	\$ -	\$ 0.00543	\$ (0.00007)	\$ (0.00003)	\$ (0.00045)	\$ 0.00788	\$ 0.00007	\$ 0.00238	\$ 0.00012	\$ 0.06226

Rate Class C-06: Rates in Effect (2022)

		(U)	(V)	(W)	(X) = (U) + (V) + (W)
		Transmission			
Month-Year	Base Transmission Charge	Transmission Adjustment	Transmission Uncollectible Factor	Transmission	
(37)	Jan-22	\$ 0.03470	\$ (0.00179)	\$ 0.00039	\$ 0.03330
(38)	Feb-22	\$ 0.03470	\$ (0.00179)	\$ 0.00039	\$ 0.03330
(39)	Mar-22	\$ 0.03470	\$ (0.00179)	\$ 0.00039	\$ 0.03330
(40)	Apr-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(41)	May-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(42)	Jun-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(43)	Jul-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(44)	Aug-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(45)	Sep-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(46)	Oct-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(47)	Nov-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357
(48)	Dec-22	\$ 0.03540	\$ (0.00219)	\$ 0.00036	\$ 0.03357

		(Y)	(Z)	(AA) = (Y) + (Z)
		Transition		
Month-Year	Base Transition Charge	Transition Charge Adjustment	Transition	
(49)	Jan-22	\$ (0.00149)	\$ 0.00004	\$ (0.00145)
(50)	Feb-22	\$ (0.00149)	\$ 0.00004	\$ (0.00145)
(51)	Mar-22	\$ (0.00149)	\$ 0.00004	\$ (0.00145)
(52)	Apr-22	\$ -	\$ 0.00018	\$ 0.00018
(53)	May-22	\$ -	\$ 0.00018	\$ 0.00018
(54)	Jun-22	\$ -	\$ 0.00018	\$ 0.00018
(55)	Jul-22	\$ -	\$ 0.00018	\$ 0.00018
(56)	Aug-22	\$ -	\$ 0.00018	\$ 0.00018
(57)	Sep-22	\$ -	\$ 0.00018	\$ 0.00018
(58)	Oct-22	\$ -	\$ 0.00018	\$ 0.00018
(59)	Nov-22	\$ -	\$ 0.00018	\$ 0.00018
(60)	Dec-22	\$ -	\$ 0.00018	\$ 0.00018

		(BB)	(CC)	(DD) = (BB) + (CC)
		Renewable Energy Distribution		
Month-Year	Net Metering Charge	Long-Term Contracting	Renewable Energy Distribution Charge	
(61)	Jan-22	\$ 0.00436	\$ 0.00290	\$ 0.00726
(62)	Feb-22	\$ 0.00436	\$ 0.00290	\$ 0.00726
(63)	Mar-22	\$ 0.00436	\$ 0.00290	\$ 0.00726
(64)	Apr-22	\$ 0.00488	\$ 0.00290	\$ 0.00778
(65)	May-22	\$ 0.00488	\$ 0.00290	\$ 0.00778
(66)	Jun-22	\$ 0.00488	\$ 0.00290	\$ 0.00778
(67)	Jul-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(68)	Aug-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(69)	Sep-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(70)	Oct-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(71)	Nov-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357
(72)	Dec-22	\$ 0.00488	\$ (0.00131)	\$ 0.00357

Rate Class C-06: Rates in Effect (2022)

Month-Year	(EE)	(FF)	(GG)	(HH)	(II) = SUM[(EE):(HH)]
	Energy Efficiency Program Charge	System Reliability Plan Charge	Renewables Charge	EE & SRP Uncollectible Charge	Total Energy Efficiency Charge
(73) Jan-22	\$ 0.01099	\$ -	\$ 0.00030	\$ 0.00014	\$ 0.01143
(74) Feb-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(75) Mar-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(76) Apr-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(77) May-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(78) Jun-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(79) Jul-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(80) Aug-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(81) Sep-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(82) Oct-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(83) Nov-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252
(84) Dec-22	\$ 0.01207	\$ -	\$ 0.00030	\$ 0.00015	\$ 0.01252

(JJ) = (D) + (E) + (F) + (T) +
(X) + (AA) (KK) = (D) + (E) + (F)

Month-Year	Renewable Net Metering Credit	Excess Renewable Net Metering Credit
(85) Jan-22	\$ 0.18286	\$ 0.09509
(86) Feb-22	\$ 0.18286	\$ 0.09509
(87) Mar-22	\$ 0.18286	\$ 0.09509
(88) Apr-22	\$ 0.16890	\$ 0.07326
(89) May-22	\$ 0.16890	\$ 0.07326
(90) Jun-22	\$ 0.16890	\$ 0.07326
(91) Jul-22	\$ 0.16976	\$ 0.07326
(92) Aug-22	\$ 0.16976	\$ 0.07326
(93) Sep-22	\$ 0.16976	\$ 0.07326
(94) Oct-22	\$ 0.27159	\$ 0.17558
(95) Nov-22	\$ 0.27159	\$ 0.17558
(96) Dec-22	\$ 0.27159	\$ 0.17558
(97) Average	\$ 0.19828	\$ 0.10430

(LL) = (H) + (T) + (AA) +
(DD) + (II) (MM) = (A) + (B) + (C)

Month-Year	Net Consumption	
	Total Charges (Volumetric)	Total Charges (Fixed)
(98) Jan-22	\$ 0.20820	\$ 24.57
(99) Feb-22	\$ 0.20929	\$ 24.57
(100) Mar-22	\$ 0.20929	\$ 24.57
(101) Apr-22	\$ 0.19641	\$ 24.57
(102) May-22	\$ 0.19641	\$ 24.57
(103) Jun-22	\$ 0.19641	\$ 24.57
(104) Jul-22	\$ 0.19306	\$ 24.57
(105) Aug-22	\$ 0.19306	\$ 24.57
(106) Sep-22	\$ 0.19306	\$ 24.57
(107) Oct-22	\$ 0.29489	\$ 23.23
(108) Nov-22	\$ 0.29489	\$ 23.23
(109) Dec-22	\$ 0.29489	\$ 23.23

Rate Class C-06: Rates in Effect (2022)
(NN) = (JJ) (OO) = (MM)

	Month-Year	Net Generation	
		Total Credits (Volumetric)	Total Charges (Fixed)
(110)	Jan-22	\$ 0.18286	\$ 24.57
(111)	Feb-22	\$ 0.18286	\$ 24.57
(112)	Mar-22	\$ 0.18286	\$ 24.57
(113)	Apr-22	\$ 0.16890	\$ 24.57
(114)	May-22	\$ 0.16890	\$ 24.57
(115)	Jun-22	\$ 0.16890	\$ 24.57
(116)	Jul-22	\$ 0.16976	\$ 24.57
(117)	Aug-22	\$ 0.16976	\$ 24.57
(118)	Sep-22	\$ 0.16976	\$ 24.57
(119)	Oct-22	\$ 0.27159	\$ 23.23
(120)	Nov-22	\$ 0.27159	\$ 23.23
(121)	Dec-22	\$ 0.27159	\$ 23.23

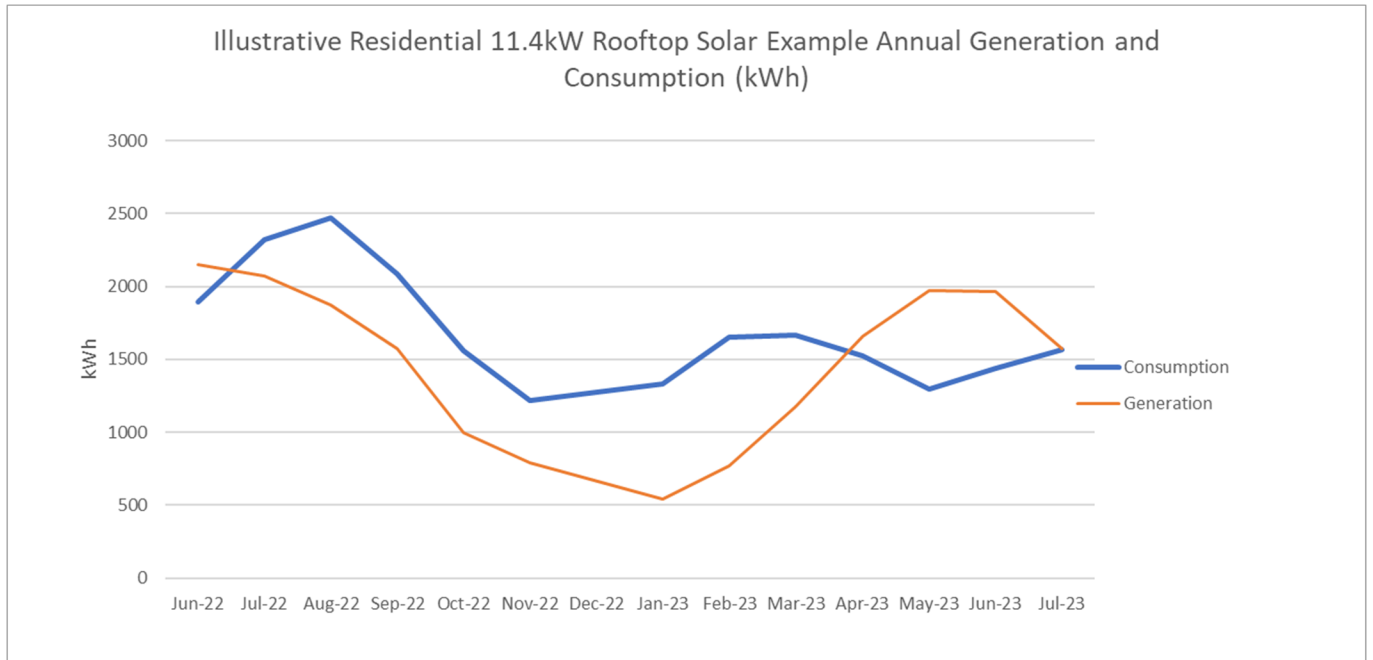
MAE 2-10

Request:

Please reproduce the graph responding to MAE 1-4 with a horizontal axis starting in July and running to June.

Response:

Please see the graph below.



MAE 2-11

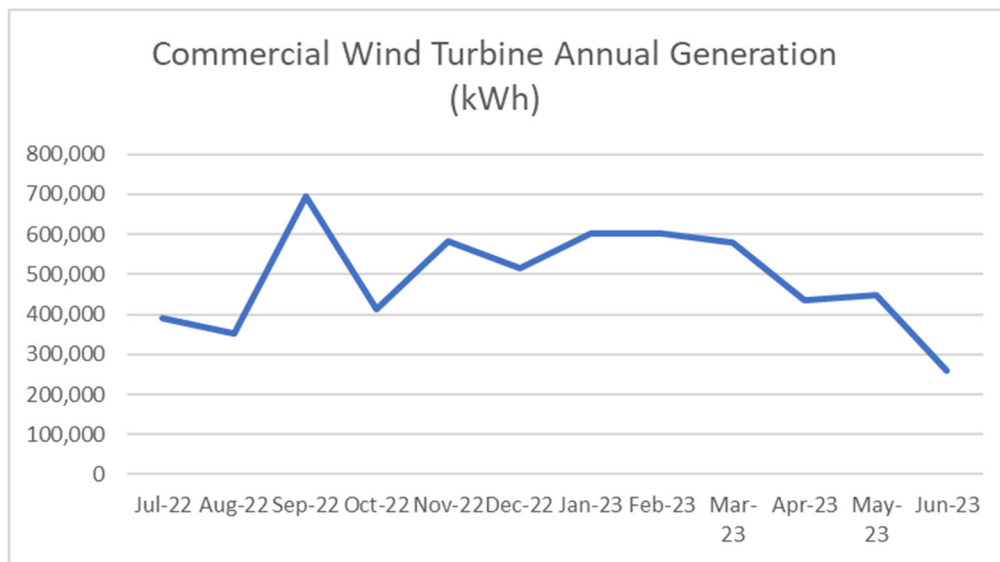
Request:

Please reproduce the graph responding to MAE 1-4 for a representative wind net metering customer with a horizontal axis starting in July and running to June.

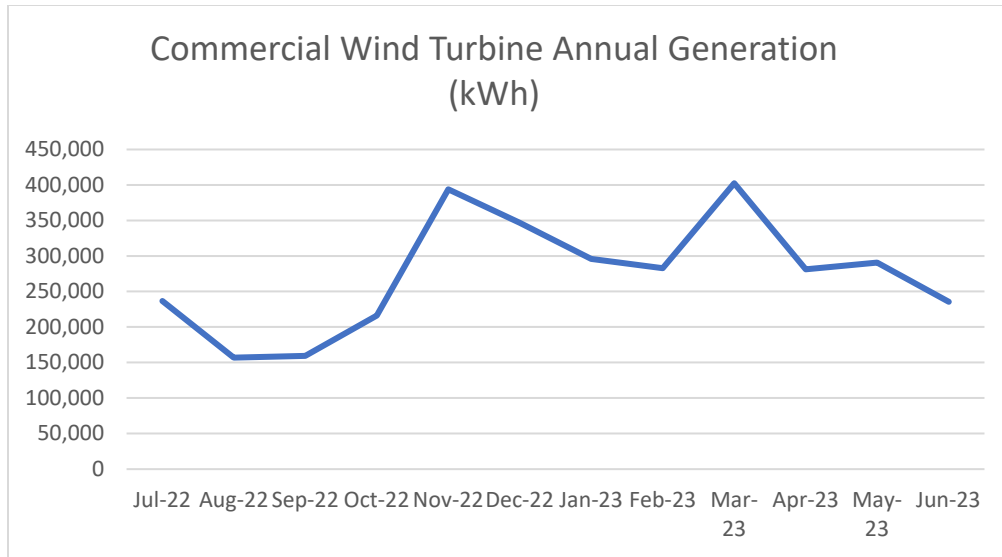
Response:

The Company has limited data for a “wind net metering customer”. There are 15 wind net metering interconnections on the A-16 rate from 2003 through 2023 with system sizes ranging from 1.2 kW to 14,994 kW. Because these are net metering customers, we know the net value but not the actual generation or consumption.

The following graphs display two random wind Renewable Energy Growth customers for which we know the total value of the generation. There is no accompanying consumption as these are stand-alone sites.



MAE 2-11, page 2



The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 23-05-EL
In Re: Net Metering Excess Credits Tariff Advice 2023
Responses to MassAmerican Energy's Second Set of Data Requests
Issued on August 22, 2023

MAE 2-12

Request:

Please explain how it is equitable or consistent with the principles of Docket 4600 for net metering customers to receive devalued credits based on the impact of demand for natural gas for thermal energy?

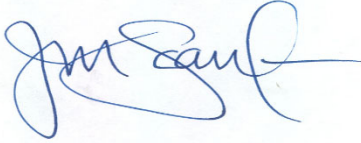
Response:

As a societal benefit-cost framework, Docket 4600 suggests the holistic consideration of all fuels and the relevant benefits and costs associated with all fuels. Rhode Island Energy's proposed method of reconciliation is consistent with Docket 4600 for the reasons described in the Company's response to MAE 1-7(d).

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.



Joanne M. Scanlon

September 11, 2023

Date

**Docket No. 23-05-EL Rhode Island Energy – Net Metering Provision, RIPUC No. 2268
Service List updated 8/25/2023**

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