

The Narragansett Electric Company
d/b/a National Grid

**2020 REVISED ANNUAL RETAIL
RATE FILING**

Consisting of the
Revised Testimony and Schedules of
Robin E. Pieri

February 21, 2020

Submitted to:
Rhode Island Public Utilities Commission
RIPUC Docket No. 5005

Submitted by:

nationalgrid

February 21, 2020

VIA HAND DELIVERY AND ELECTRONIC MAIL

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

RE: Docket No. 5005 – Revised 2020 Annual Retail Rate Filing

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a National Grid (National Grid or the Company), enclosed, please find ten (10) copies of revised pre-filed direct testimony (red-lined from the initial filing) and revised schedules of Robin E. Pieri in support of certain revisions and corrections to National Grid's 2020 Annual Retail Rate Filing, which the Company submitted to the Rhode Island Public Utilities Commission (PUC) on February 14, 2020.

The revised documents include:

- 1) **Revised Pre-Filed Direct Testimony of Robin E. Pieri:** Reflects a revised Long-Term Contracting for Renewable Energy Recovery (LTCRER) Charge, as a result of a change to the LTCRER Reconciliation Factor as described in item (3) below;
- 2) **REP-1 Revised (Summary of Proposed Rate Changes):** Reflects a revised LTCRER Charge, column (k), as a result of a change to the LTCRER Reconciliation Factor as described in item (3) below;
- 3) **REP-18 Revised (Long Term Contracting for Renewable Energy Recovery Reconciliation):** Corrects the calculation of the portion of January 2019 revenue associated with December 2018 kWh deliveries billed in January 2019, the correction of which increase the LTC base revenue credited in the 2019 reconciliation by approximately \$250 thousand; and
- 4) **REP-19 Revised (Typical Bill Analysis):** Reflects anticipated customer bill impacts as a result of the proposed rates.

Robin E. Pieri's schedules REP-2 through REP-17 and Michael V. Artuso's pre-filed direct testimony and schedules, which were submitted as part of the Company's initial filing on February 14, 2020, are not impacted by this revised filing and remain in effect.

Luly E. Massaro, Commission Clerk
Docket 5005 - 2020 Annual Retail Rate Filing
February 21, 2020
Page 2 of 2

If the proposed rate adjustments are approved as presented in this revised filing, the net monthly bill impact for a typical residential electric customer¹ would be an increase of \$2.13, from \$118.05 to \$120.18, or 1.8%. The bill impact presented in the Company's initial filing was an increase of \$2.15 or 1.8%.

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 5005 Service List
John Bell, Division
Al Mancini, Division
John R. Harrington, Esq.

¹ For purposes of this calculation, a typical residential customer is an SOS customer who uses 500 kWh per month.

REDLINED

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 5005
2020 REVISED ANNUAL RETAIL RATE FILING
WITNESS: ROBIN E. PIERI

PRE-FILED DIRECT TESTIMONY

OF

ROBIN E. PIERI

February 14~~21~~, 2020

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1 **I. Introduction and Qualifications**

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

3 A. My name is Robin E. Pieri, and my business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

5

6 **Q. Please state your position.**

7 A. I am a Senior Analyst for Electric Pricing, New England in the Strategy and Regulation
8 Department of National Grid USA Service Company, Inc. This department provides
9 rate-related support to The Narragansett Electric Company d/b/a National Grid
10 (National Grid or Company).

11

12 **Q. Please describe your educational background and training.**

13 A. In 1998, I graduated from the University of Massachusetts in Lowell, Massachusetts with
14 a Bachelor of Science degree in Psychology.

15

16 **Q. Please describe your professional experience.**

17 A. For approximately 15 years before joining National Grid, I was employed by Advantage
18 Resourcing America (Advantage) as a Senior Financial Analyst, where I was responsible
19 for budgeting, forecasting, and analysis for numerous Advantage business units around
20 the world, as well Advantage's Corporate Division. Prior to working at Advantage, I
21 held various positions in accounting and finance. In March 2015, I began my

1 employment with National Grid as a Senior Analyst in the New England Electric Pricing
2 department.

3
4 **Q. Have you previously testified before Rhode Island Public Utilities Commission**
5 **(PUC)?**

6 A. Yes. I testified in last year's Annual Retail Rate Filing, RIPUC Docket No. 4930 as well
7 as the last Company's last four Revenue Decoupling Mechanism (RDM) filings in
8 Docket Nos. 4617, 4699, 4824 and 4953. I also submitted pre-filed testimony in the
9 Company-Owned LED Streetlighting Offering in Docket No. 4628. Additionally, I have
10 appeared before the PUC at the evidentiary hearings regarding the Arrearage Management
11 Program (Docket No. 4651) and the Storm Fund Recovery Factor (Docket No. 4686), and
12 most recently in the 2020 Renewable Energy Growth Program (Docket No. 4983).

13
14 **II. Purpose of Testimony**

15 **Q. What is the purpose of the Company's Annual Retail Rate Filing?**

16 A. In the Annual Retail Rate Filing, the Company is requesting PUC approval of the
17 following:

18 (1) Standard Offer Service (SOS) Adjustment Factors for each SOS customer group
19 designed to recover a net over-recovery of SOS expense for the 12-month period
20 ending December 31, 2019;

21

- 1 (2) SOS Administrative Cost Factors for each SOS customer group designed to recover
2 the projected SOS administrative expense for the period April 1, 2020 through
3 March 31, 2021 and to recover the under-recovery of SOS administrative expense for
4 the 12-month period ending December 31, 2019;
- 5 (3) an adjustment to the SOS base reconciliation and a corresponding adjustment to the
6 Revenue Decoupling Mechanism to reflect the PUC's decision in RIPUC Docket No.
7 4556 that, as of July 1, 2015, the unbilled SOS Billing Adjustment must be recovered
8 from or credited to all delivery service customers;
- 9 (4) a base Non-Bypassable Transition Charge (Transition Charge) that is proposed as a
10 credit of 0.074¢ per kWh based upon New England Power Company's (NEP) annual
11 Contract Termination Charge (CTC) for 2020 to Narragansett Electric Company, the
12 former Blackstone Valley Electric Company (BVE), and the former Newport Electric
13 Corporation (Newport);
- 14 (5) a Transition Charge Adjustment Factor that is proposed as a credit of 0.008¢ per kWh
15 resulting from an over-recovery of CTC expense during the 12-month period ending
16 December 31, 2019;
- 17 (6) base Transmission Service Charges based upon an estimate of 2020 transmission
18 expense to be billed to the Company;
- 19 (7) Transmission Service Cost Adjustment Factors (TSCAF) designed to (1) credit the net
20 over-recovery of transmission expense incurred during the 12-month period ending
21 December 31, 2019; and (2) recover the projected transmission-related uncollectible

1 expense allowance for the period April 1, 2020 through March 31, 2021 and the net
2 under-recovery of transmission-related uncollectible expense incurred during the
3 12-month period ending December 31, 2019;

4 (8) a Net Metering Charge of 0.266¢ per kWh, which is designed to recover Renewable
5 Net Metering Credits paid to eligible net metering customers and the payments made
6 to renewable Qualifying Facilities that are in excess of proceeds that the Company
7 receives from ISO New England (ISO-NE) from the sale of the energy purchased
8 from the Qualifying Facilities for the 12-month period ending December 31, 2019;
9 and

10 (9) a Long-Term Contracting for Renewable Energy (LTC) Reconciliation Factor of
11 ~~0.227~~0.223¢ per kWh, designed to recover the under-recovery of expense during the
12 12-month period ending December 31, 2019 that would be combined and billed with
13 the currently-effective LTC Recovery Factor of 0.481¢ per kWh for the period
14 January 1, 2020 through June 30, 2020, approved by the PUC in RIPUC Docket No.
15 4992 at its December 17, 2019 open meeting.

16
17 In support of the above requests, the Company is presenting its annual reconciliations for
18 SOS, SOS administrative costs, the non-bypassable transition charge, the transmission
19 service charge, the transmission-related uncollectible expense, the Net Metering charge,
20 and the LTC Recovery Factor. The reconciliation period for the various costs in this
21 filing is January 1, 2019 through December 31, 2019.

1 The net effect of all rate changes proposed in this filing for a typical residential SOS
2 customer using 500 kWh per month is an increase of ~~\$2.15~~ \$2.13 from \$118.05 to
3 ~~\$120.20~~ \$120.18, or 1.8%. Schedule REP-1 Revised includes a summary of the proposed
4 rates.

5
6 The Company is proposing that the rate and tariff changes identified above be effective
7 for usage on and after April 1, 2020.
8

9 **Q. Is the Company requesting approval from the PUC for the Renewable Energy**
10 **Standard (RES) Charge in this filing?**

11 A. No. The Company will submit its proposed 2020 RES Charge and reconciliation in a
12 separate filing before March 1, 2020.
13

14 **III. SOS Adjustment Factors and Reconciliation**

15 SOS Adjustment Factors

16 **Q. Is the Company proposing SOS Adjustment Factors for April 1, 2020?**

17 A. Yes. The Company is proposing separate SOS Adjustment Factors for the Residential,
18 Commercial, and Industrial Customer Groups, which are designed to recover from or
19 credit customers, as appropriate, a net over-recovery of approximately \$5.0 million
20 incurred during the 12-month period ending December 2019. For billing purposes, the
21 Company includes the SOS Adjustment Factors with the SOS Charge on customers' bills.

1 **Q. Please describe the Company's SOS customer classes.**

2 A. Pursuant to its Tariff for Standard Offer Service, RIPUC No. 2202, the Company
3 provides SOS to three separate SOS customer groups: the Residential Group, the
4 Commercial Group, and the Industrial Group. The Residential Group consists of
5 customers taking service on Basic Residential Rate A-16 and Low-Income Rate A-60.
6 The Commercial Group consists of customers receiving service pursuant to Small C&I
7 Rate C-06, General C&I Rate G-02, and outdoor lighting Rates S-05, S-06, S-10,
8 and S-14. Finally, the Industrial Group consists of the Company's large C&I classes,
9 Large Demand Rate G-32, Backup Service Rate B-32, and Electric Propulsion Rate
10 X-01. The Company procures and prices SOS separately for each of these customer
11 groups and tracks revenue and expenses separately for each group.

12

13 SOS Reconciliation

14 **Q. Please describe the Company's SOS reconciliation for the period January 2019**
15 **through December 2019.**

16 A. This reconciliation is included as Schedule REP-2. Page 1 of Schedule REP-2 reflects a
17 total net over-recovery of approximately \$5.0 million for the period January 2019
18 through December 2019.

19

1 **Q. Please describe the SOS reconciliation process in more detail.**

2 A. The Company is required to reconcile SOS revenue and expense in accordance with the
3 SOS Adjustment Provision, RIPUC No. 2157. This provision requires the Company to
4 reconcile, on an annual basis, its total cost of purchased power for SOS supply against its
5 total SOS revenue, and to credit the excess to or recover the deficiency from customers
6 through a rate recovery/refund methodology approved by the PUC when the Company
7 files its annual reconciliation.

8

9 Total revenue is generated from charges billed to SOS customers through the SOS rates
10 for the applicable reconciliation period. Since the Company procures and prices SOS
11 separately for the Residential Group, the Commercial Group, and the Industrial Group,
12 the Company has performed separate reconciliations for each group. The SOS
13 reconciliations for each procurement group and a total Company consolidated
14 reconciliation are included in Schedule REP-2.

15

16 **Q. Please describe the Capacity Risk Premium and Estimated and Actual Capacity**
17 **costs shown in the SOS reconciliation, Schedule REP-2, Page 7.**

18 A. Pursuant to Order 23366 in Docket No. 4809, the Company began removing capacity
19 costs from the full requirements service contracts used to procure power for the three
20 customer groups and included estimates of capacity payments in its SOS rates beginning
21 in April 2019. Page 7 of Schedule REP-2 shows the estimated capacity costs the

1 Company reflected in the SOS rates (Column (e)), the actual capacity costs settled
2 (Column (f)), and the over- or under- estimate of capacity costs charged to customers
3 (Columns (g) and (h)). For example, on Line (1), the Company estimated and included in
4 the residential SOS rate capacity cost of \$63.80 per MWh (Column (e)), and the actual
5 capacity cost was \$63.09 per MWh (Column (f)). This resulted in the Company over-
6 estimating capacity cost by \$0.71 per MWh (Column (g)), or \$19,406 (Column (h)). In
7 other months, the Company under-estimated capacity costs and the differences in
8 Columns (g) and (h) are negative. These amounts by Customer Group are included in the
9 total Base Reconciliation on Page 1 of Schedule REP-2, as well as the Base
10 Reconciliation by Customer Group on pages 2 through 4. A positive amount (over-
11 estimate of costs) is reflected as a credit to customers and a negative amount (under-
12 estimate of costs) is reflected as a charge to customers.

13
14 **Q. Please describe the adjustment shown in the SOS reconciliation, Schedule REP-2,**
15 **Page 1, Line (14).**

16 A. The adjustment of (\$279,469) shown on Line (14) of Page 1 of the reconciliation reflects
17 the remaining balance of the 2017 net over-recovery of SOS expense for the period
18 January 1, 2017 through December 31, 2017 that was credited to customers during the
19 period April 1, 2018 through March 31, 2019.

1 **Q. Has the Company included a schedule showing the final balance of the 2017 net**
2 **over-recovery incurred in January 2017 through December 2017?**

3 A. Yes. Pages 8-10, Section 1 of Schedule REP-2 present the final status of each Customer
4 Group's over or under-recovery incurred during the period January 2017 through
5 December 2017. The refund of the combined beginning net over-recovery balance for
6 the three Customer Groups of \$2,247,343 was approved through the respective SOS
7 Adjustment Factors in RIPUC Docket No. 4805, effective April 1, 2018 through
8 March 31, 2019. As shown in Schedule REP-2, Pages 8, 9, and 10, the remaining net
9 balance due to be refunded to SOS customers totals \$279,469 as of March 31, 2019. This
10 remaining balance is included as an adjustment to the current base reconciliation on
11 Schedule REP-2, Page 1, Line (14).

12

13 **Q. Please describe the adjustment shown in the SOS reconciliation, Schedule REP-2,**
14 **Line (15).**

15 A. The adjustment of \$218,926 shown on Line (15) of Page 1 of the reconciliation reflects
16 the net unbilled SOS Billing Adjustments for the period January 1, 2019 through
17 December 31, 2019. This adjustment is described in further detail later in my testimony.

18

1 **Q. Has the Company included a status of the recovery or refund of the 2018 SOS net**
2 **over-recovery incurred during the period January 2018 through December 2018**
3 **that the Company is crediting/recovering during the 12 months ending March 31,**
4 **2020?**

5 A. Yes. Pages 8-10, Section 2, of Schedule REP-2 present the status of each Customer
6 Group's over-recovery or under-recovery incurred during the January 2018 through
7 December 2018 reconciliation period. The PUC approved the SOS Adjustment Factors
8 based upon the combined beginning net over-recovery balance of \$3,696,226 in RIPUC
9 Docket No. 4930. The class specific over-recovery and under-recovery amounts are
10 being credited or charged through the SOS Adjustment Factors implemented on April 1,
11 2019. The Company will continue to apply the currently effective adjustment factors
12 through March 31, 2020. Any balance remaining at that time, positive or negative, will
13 be reflected in next year's SOS reconciliation as an adjustment.

14
15 Calculation of the SOS Adjustment Factors

16 **Q. How are the SOS Adjustment Factors developed?**

17 A. The proposed SOS Adjustment Factors are developed in Schedule REP-3. The SOS
18 Adjustment Factors are calculated by dividing the ending balance of the SOS
19 reconciliation for each Customer Group plus estimated interest during the period during
20 which the factors will be in effect by the forecasted SOS kWh deliveries for each
21 Customer Group during the period April 2020 through March 2021.

1 **IV. Standard Offer Service Administrative Cost Factors**

2 **Q. Please describe the SOS Administrative Cost Factors.**

3 A. Pursuant to the Company's Standard Offer Adjustment Provision, the SOS
4 Administrative Cost Factors, which are applicable to customers receiving SOS, recover
5 administrative costs associated with arranging, administering, and providing SOS. In
6 accordance with the Standard Offer Adjustment Provision, on an annual basis, the
7 Company reconciles its administrative cost of providing SOS with its SOS revenue
8 associated with the recovery of administrative costs and the excess or deficiency,
9 including interest at the interest rate paid on customer deposits, is credited to, or
10 recovered from, SOS customers in the subsequent year's SOS Administrative Cost
11 Factors.

12

13 **Q. What costs are included for recovery in the SOS Administrative Cost Factors?**

14 A. The Company is allowed to recover administrative costs associated with the following:
15 working capital; complying with the requirements of Renewable Energy Standard
16 established in R.I. Gen. Laws § 39-26-1; creating the environmental disclosure label; the
17 costs associated with the New England Power Pool (NEPOOL) Generation Information
18 System (GIS) attributable to SOS; procurement of SOS, including requests for bids,
19 contract negotiation, and execution and contract administration; notifying SOS customers
20 of the rates for SOS; updating rate changes in the Company's billing system; and an
21 allowance for SOS-related uncollectible expense associated with amounts billed through

1 SOS rates and the SOS Administrative Cost Factors at the uncollectible rate approved by
2 the PUC.¹

3
4 **Q. Has the Company proposed SOS Administrative Cost Factors to be effective**
5 **April 1, 2020?**

6 A. Yes. The proposed factors are developed in Schedule REP-4.

7
8 **Q. How are the proposed factors calculated?**

9 A. Pursuant to the Standard Offer Adjustment Provision, the proposed SOS Administrative
10 Cost Factors are designed to collect the following: (1) an allowance for SOS-related
11 uncollectible expense based upon estimated SOS base revenue, estimated SOS
12 Adjustment Factor revenue, and estimated RES revenue associated with each customer
13 group for the upcoming year; (2) administrative costs associated with arranging SOS for
14 the upcoming year, and; (3) any over- or under-recoveries of SOS administrative costs
15 from the prior year.

16
17 **Q. How does the Company estimate the SOS revenue and associated uncollectible**
18 **expense for the period April 1, 2020 through March 31, 2021?**

19 A. Uncollectible expense is based upon estimated SOS base revenue, SOS Adjustment

¹ As approved in the Company's general rate case in RIPUC Docket No. 4770, the current allowed uncollectible rate of 1.30% became effective on September 1, 2018.

1 Factor revenue, and RES revenue for the period April 1, 2020 through March 31, 2021.

2 The revenue is calculated as each Customer Group's estimated SOS kWh deliveries for
3 the 12 months ending March 31, 2021, multiplied by the sum of the SOS base rates
4 proposed in RIPUC Docket No. 4935, the current RES rate, and the proposed SOS
5 Adjustment Factors. The estimated revenue is then multiplied by the uncollectible rate to
6 determine the estimated commodity-related uncollectible expense. Estimated
7 commodity-related uncollectible expense is shown on Line (1) of Schedule REP-4,
8 Page 1. The details of this estimate are included on Page 2 of Schedule REP-4.

9
10 **Q. How does the Company estimate other SOS administrative expenses?**

11 A. SOS administrative expense is categorized into three components: GIS costs, other
12 administrative costs, and cash working capital. The estimated GIS and other
13 administrative costs are based upon the actual expense incurred in 2019 and are allocated
14 to each customer group based on each customer group's percentage share of SOS
15 expense during the 12-month period ending December 31, 2019. The Company bases its
16 2020 SOS cash working capital estimate on the prior year's actual SOS cash working
17 capital cost and allocates the estimate to each customer group based upon each group's
18 actual SOS revenue as a percentage of total SOS revenue. The total estimated SOS
19 administrative expense for 2020 is shown on Line (3) of Schedule REP-4, Page 1.

20

1 SOS Administrative Cost Reconciliation

2 **Q. Did the Company prepare a reconciliation of the recovery of actual SOS**
3 **administrative costs for the period ending December 31, 2019?**

4 A. Yes. The SOS administrative cost reconciliation for the period January 1, 2019 through
5 December 31, 2019 is presented in Schedule REP-5. Page 1 shows that the SOS
6 administrative cost reconciliation is under-recovered by approximately \$1.6 million.
7 Consistent with the reconciliation of base SOS costs, the Company has prepared separate
8 reconciliations for the Residential Group, the Commercial Group, and the Industrial
9 Group.

10
11 **Q. Please describe the amounts on Pages 6, 7, and 8, Column (h), labeled Cash**
12 **Working Capital.**

13 A. The amounts on Schedule REP-5, Pages 6, 7, and 8, Column (h) labeled Cash Working
14 Capital, are the commodity-related working capital requirements during 2019 for each
15 Customer Group. The Cash Working Capital calculation is presented in Schedule REP-6.

16
17 **Q. How is the Company proposing to recover each Customer Group's under-recovery**
18 **of SOS administrative costs?**

19 A. The Company is proposing to recover each Customer Group's under-recovery of SOS
20 administrative costs through group-specific adjustment factors. The proposed factors are
21 developed in Schedule REP-7. Each Customer Group's factor is developed by dividing

1 the Customer Group's under-recovery, including interest during the recovery period, by
2 the Customer Group's forecasted SOS kWh deliveries. These factors are included in the
3 proposed SOS Administrative Cost Factors, as shown in Schedule REP-4, Page 1,
4 Line (6).

5
6 **V. Unbilled Standard Offer Service Billing Adjustment**

7 **Q. Please describe Schedule REP-8.**

8 A. Schedule REP-8, Page 1 identifies the monthly unbilled SOS Billing Adjustments by
9 SOS Customer Group. These amounts form the basis for an adjustment to the SOS
10 reconciliation for the same period.

11
12 **Q. Why is the Company proposing this adjustment to the SOS reconciliation balance?**

13 A. In RIPUC Docket No. 4556, the PUC approved the termination of the SOS Billing
14 Adjustment, effective July 1, 2015. The SOS Billing Adjustment was a one-time billing
15 adjustment applied to Residential and Commercial customers' bills when they switched
16 to a competitive energy supplier from SOS and were billed a fixed SOS rate (fixed SOS
17 rates are an option only for Commercial customers – all Residential customers are billed
18 a fixed SOS rate). This adjustment accounted for the difference between the fixed SOS
19 rate for a SOS pricing period and the monthly contract prices at which the Company
20 procured SOS from its SOS suppliers. This one-time adjustment could result in either a
21 credit or charge to the customer.

1 The PUC further directed the Company to track the unbilled SOS Billing Adjustments
2 beginning July 1, 2015 through the end of the reconciliation period and to recover from
3 or credit to all retail delivery service customers the net amount of the adjustments.
4

5 **Q. How is the adjustment applied to the SOS base reconciliation?**

6 A. As required by the SOS Adjustment Provision, the Company must apply a Revenue
7 Adjustment (defined as an increase to SOS revenue in the SOS reconciliation) if the
8 variable rate billing less fixed rate billing is positive (i.e., the Company paid more to SOS
9 suppliers than it billed SOS customers), and a decrease to SOS revenue in the SOS
10 reconciliation if the variable rate billing less the fixed rate billing is negative (i.e., the
11 Company paid less to SOS suppliers than it billed SOS customers). This adjustment to
12 SOS revenue in the SOS reconciliation results in the SOS revenue being at a level it
13 would have been had the Company continued to bill these SOS Billing Adjustments. In
14 this way, SOS customers are not harmed by the termination of the SOS Billing
15 Adjustment. In addition, they also do not benefit from the termination of the adjustment.
16

17 **Q. What do the amounts in Schedule REP-8 indicate?**

18 A. Schedule REP-8 quantifies the total net unbilled SOS Billing Adjustments for 2019 for
19 the Residential and Commercial Groups, which was a net debit of \$218,926. This
20 amount is shown as an adjustment to the Residential and Commercial customer group
21 SOS base reconciliations in Schedule REP-2, pages 2 and 3. The net amount of the

1 unbilled SOS Billing Adjustment is positive, or a debit of \$218,926, meaning that, in the
2 aggregate, for all of the SOS customers who are billed a fixed SOS rate and who left SOS
3 to take their electric supply from a non-regulated power producer, the Company paid
4 more for their SOS supply than what it billed those customers. Therefore, the Company
5 is adjusting the Residential and Commercial SOS reconciliations, that, effectively,
6 increases the revenue in each reconciliation to match SOS costs.

7
8 **Q. How does the Company propose to recover the value it has provided to SOS**
9 **customers in the SOS reconciliation as a result of increasing SOS revenue in the**
10 **amount of the 2019 net SOS Billing Adjustment?**

11 A. The Company is proposing to reflect the net debit (i.e., the revenue shortfall of the cost to
12 provide SOS) of the SOS Billing Adjustment as an adjustment to the Revenue
13 Decoupling Mechanism (RDM) reconciliation, which will be filed by May 15, 2020. The
14 RDM Adjustment Factor is a uniform per kWh factor applicable to all retail delivery
15 service customers. By making this adjustment to the RDM reconciliation, which will be
16 an amount to be recovered from all customers to offset the credit provided to SOS
17 customers in the SOS reconciliation, all customers will be assessed a portion of the net
18 SOS Billing Adjustment debit through application of the RDM Adjustment Factor.

19

1 **VI. Transition Charge**

2 Base Transition Charge

3 **Q. Please describe the Company's Transition Charge.**

4 A. The purpose of the Transition Charge is to recover from all retail delivery service
5 customers the CTC billed to the Company by NEP, including charges in effect under the
6 former Montaup Electric Company's CTC. In addition, the Company reconciles the
7 revenue it bills its customers through the Transition Charge against the CTC billed to it
8 by NEP and can propose to implement a Transition Charge adjustment factor to credit
9 customers for an over-recovery of CTC costs or recover an under-recovery of CTC costs.

10

11 **Q. What is the Company's proposal in this filing?**

12 A. In this filing, the Company is proposing a Transition Charge for the 12-month period
13 ending March 31, 2021 that is a credit of 0.082¢ per kWh, as shown in Schedule REP-1
14 Revised, Page 1. The credit represents (1) the weighted average CTC credit of 0.074¢
15 per kWh and (2) a Transition Charge Adjustment Factor credit of 0.008¢ per kWh
16 designed to credit all customers the over-recovery of CTC costs for the period
17 January 2019 through December 2019.

18

19 **Q. How is the weighted average CTC calculated?**

20 A. Schedule REP-9 shows the calculation of the weighted average CTC for 2020. The
21 individual CTC rates, estimated GWhs, and costs for Narragansett Electric, BVE, and

1 Newport, shown in Section 1 of Page 1, are based upon NEP's 2020 CTC. The
2 individual company CTC costs in Section 1 are aggregated in Section 2 and divided by
3 the total GWh deliveries to arrive at a weighted average credit CTC of 0.074¢ per kWh.
4 This is the basis for the proposed base Transition Charge credit factor of 0.074¢ per kWh
5 effective April 1, 2020.

6
7 Transition Charge Reconciliation

8 **Q. Please describe how the Company reconciles its Transition Charge.**

9 A. The Company reconciles Transition Charge revenue and CTC expense in accordance
10 with its Non-Bypassable Transition Charge Adjustment Provision. The excess or
11 deficiency must be credited to or recovered from customers with interest accruing at the
12 rate in effect for customer deposits. The reconciliation covers the period January 2019
13 through December 2019, as reflected in Schedule REP-10. Page 1 of Schedule REP-10
14 presents the reconciliation.

15
16 **Q. What is the Transition Charge reconciliation balance for the 12 months ending**
17 **December 31, 2019?**

18 A. The balance for the period January 2019 through December 2019, shown in Schedule
19 REP-10, Page 1, reflects an over-recovery of approximately \$0.6 million.

20

1 **Q. What is shown in Column (i) of Page 1, labeled “Adjustments”?**

2 A. Column (i), Page 1, contains a \$76,196 adjustment in the month of April 2019, which
3 represents the final balance of the over-recovery incurred during the period January 2017
4 through December 2017 that has been credited to customers during April 2018 through
5 March 2019, as shown on Schedule REP-10, Page 2, Section 1, and described below.
6

7 **Q. How is the Company proposing to reflect the over-recovery for the period**
8 **January 2019 through December 2019 in rates?**

9 A. As previously noted, the Company is proposing to combine the proposed base Transition
10 Charge credit factor of 0.074¢ per kWh, calculated on Schedule REP-9, Page 1, and the
11 proposed Transition Charge Adjustment Factor credit of 0.008¢ per kWh, as calculated in
12 Schedule REP-10, Page 3. The Transition Charge over-recovery balance, including
13 estimated interest during the recovery period, is divided by the forecasted kWh deliveries
14 for the period April 1, 2020 through March 31, 2021, resulting in a credit of 0.008¢ per
15 kWh. This credit, when added to the base Transition Charge credit factor of 0.074¢ per
16 kWh, produces a total Transition Charge credit factor of 0.082¢ per kWh, as shown on
17 Column (e) of Schedule REP-1 Revised.
18

19 **Q. What does Page 2 of Schedule REP-10 reflect?**

20 A. Page 2, Section 1 of Schedule REP-10 presents the final balance associated with the over-
21 recovery incurred during the period January 2017 through December 2017 that was

1 credited to customers during the 12-month period ending March 31, 2019. Page 2 of
2 Schedule REP-10 shows that, as of March 31, 2019, there was a remaining balance to be
3 credited to customers of \$76,196. This ending balance is included in the base Transition
4 Charge reconciliation as an adjustment in the month of April 2019, as shown on Page 1
5 of Schedule REP-10.

6
7 Page 2, Section 2 of Schedule REP-10 also presents the status of the refund associated
8 with the over-recovery of CTC expense incurred during the period January 2018 through
9 December 2018 that is being credited to customers during the 12-month period ending
10 March 31, 2020. Page 2, Section 2, of Schedule REP-10 shows that as of January 31,
11 2020, there remains a balance owed to customers of \$378,736. The Company will
12 continue to credit the over-recovery to customers through March 31, 2020, at which
13 point, the remaining balance, positive or negative, will be reflected in next year's base
14 Transition Charge reconciliation as an adjustment in the month of April 2020.

15
16 **VII. Transmission Charges**

17 Transmission Charges and Reconciliation

18 **Q. Please describe the Company's Transmission Service Cost Adjustment Provision**
19 **(TSCAP).**

20 A. The Company recovers its transmission-related expenses pursuant to the TSCAP,
21 RIPUC No. 2198, which allows the Company to recover costs billed to it by ISO-NE,

1 NEP, and any other transmission service provider that is authorized to bill the Company
2 directly for transmission services. In addition, the provision allows for the recovery of an
3 allowance for transmission-related uncollectible expense.

4
5 Transmission charges are determined annually based upon a forecast of transmission
6 expense for the upcoming year and a transmission adjustment factor which is designed to
7 recover from or credit to customers under- or over-recoveries of expense from the prior
8 year.

9
10 **Q. Has the Company prepared a forecast of transmission costs for 2020?**

11 A. Yes, it has. This forecast is included in the testimony and schedules of Michael V.
12 Artuso, who explains the forecast and how it was derived. The transmission forecast for
13 2020 is approximately \$200.4 million, an increase of approximately \$2.6 million from the
14 2019 forecast.

15
16 **Q. How does the Company propose to recover the \$200.4 million of forecasted
17 transmission expense for 2020?**

18 A. The Company is proposing to recover the \$200.4 million of 2020 estimated expense
19 through class specific base transmission demand and energy charges.

20

1 Base Transmission Charges

2 **Q. Please describe the design of the Company's proposed base transmission charges.**

3 A. Schedule REP-11 shows the design of the proposed base transmission charges. The first
4 step in designing the base transmission charges is to allocate the forecasted transmission
5 expense to each rate class. The total estimated 2020 transmission expense is allocated to
6 each class based on a coincident peak demand² allocation factor.

7
8 **Q. How is the coincident peak allocation factor developed?**

9 A. The allocation factor is developed from rate class weighted average load factors that were
10 developed from coincident peak data for the calendar years 2008 and 2011 and the 12
11 months ending June 30, 2017, as described below. The Company used a similar
12 methodology in its most recent general rate case in RIPUC Docket No. 4770 in the
13 development of the non-coincident peak allocators used to allocate demand-related costs
14 in the allocated cost of service study.

15
16 The coincident peak allocators are shown on Schedule REP-11, Page 1, Line (2) and are
17 calculated on Schedule REP-11, Page 2. Each class's monthly coincident peak data for
18 the years 2008, 2011, and 12 months ending June 2017 (used in the last three rate cases)
19 are used to develop class load factors. These load factors are then multiplied by each
20 class's weather-normalized forecasted kWh for the period April 1, 2020 through

² Coincident peak demand is the demand of each rate class at the time of NEP's system peak demand, determined monthly.

1 March 31, 2021, resulting in a coincident peak allocator that reflects more stable,
2 weather-normalized demand. Schedule REP-11, Page 2 demonstrates the development of
3 the coincident peak allocators.

4
5 **Q. Once the forecasted transmission expense has been allocated to each rate class, how**
6 **are the individual class charges developed?**

7 A. The proposed base transmission charges are calculated in Schedule REP-11. For rate
8 classes with demand (per kW) charges, the proposed demand charges have been designed
9 to reflect the higher of (1) the current demand charge or (2) a demand charge based upon
10 the percentage increase in 2020 transmission expense allocated to the rate class as
11 compared to that rate class's share of 2019 expense. The amount recovered through the
12 proposed demand charges is calculated as the proposed demand charge multiplied by a
13 forecast of billing demand. The difference between the total allocated transmission
14 expense and the transmission expenses to be recovered through the proposed demand
15 charges results in the transmission expense to be recovered through energy charges. The
16 proposed transmission kWh charges are calculated by dividing the total transmission
17 expense to be recovered on a kWh basis by the forecasted kWh for each rate class.

18

1 Transmission Service Reconciliation

2 **Q. Please explain the Company's transmission service reconciliation for the period**
3 **January 1, 2019 through December 31, 2019.**

4 A. The Company's transmission service reconciliation is shown in Schedule REP-12. The
5 reconciliation reflects actual transmission revenue for the period January 2019 through
6 December 2019, actual transmission expenses for the period January 2019 through
7 November 2019, and estimated expenses for December 2019.³ This reconciliation is
8 provided in accordance with the Company's TSCAP, which allows for the reconciliation,
9 along with interest on any balance, and the recovery or credit of any under- or over-
10 recovery, respectively.

11
12 **Q. Please explain the beginning balance.**

13 A. The beginning balance is the "true-up" of estimated 2018 transmission expenses included
14 in RIPUC Docket No. 4930, Schedule REP-12, to the final expenses for 2018. The total
15 2018 transmission expense presented in RIPUC Docket No. 4930 was \$191,754,842 and
16 included an estimate for December 2018. The final actual 2018 transmission expense
17 was \$188,745,608, resulting in transmission expense to be refunded to customers of
18 \$3,009,234. This amount is reflected in the beginning balance at January 2019.

19

³ The Company has estimated transmission expense for December 2019 because this information was not available at the time of this filing. As explained below, the Company will true up this estimate to actual transmission expense for December 2019 in next year's Annual Retail Rate Filing.

1 **Q. What is the balance of the transmission service reconciliation as of December 2019?**

2 A. Page 1 of Schedule REP-12 presents the reconciliation of transmission service revenue
3 and expense through December 2019. This reconciliation shows that the estimated
4 balance of the transmission reconciliation as of December 2019 is a net over-recovery of
5 approximately \$14.7 million before interest during the recovery period. Page 2 of
6 Schedule REP-12 presents the results of the annual reconciliation for each rate class.

7
8 **Q. Please explain the adjustments shown on Schedule REP-12, Page 1.**

9 A. Page 1 of Schedule REP-12 includes a \$61,498 adjustment that represents the remaining
10 balance of the net over-recovery of transmission expense incurred during the period
11 January 2017 through December 2017, which was credited to or recovered from
12 customers during the 12 months ending March 31, 2019. This amount represents a credit
13 to customers.

14
15 **Q. How does the Company propose to reflect in rates the balance in the transmission
16 service reconciliation as of December 2019?**

17 A. The Company proposes to implement class-specific adjustment factors to credit to or
18 recover from customers each class's share of the net over-recovery of \$14.4 million, plus
19 estimated interest during the recovery period. The calculations of the factors are shown
20 in Schedule REP-13 and are described in more detail below.

21

1 **Q. How does the Company plan to reconcile estimated expenses for December 2019 to**
2 **actual expenses?**

3 A. Actual expenses for December 2019 will be compared to the estimated expenses included
4 in the 2019 reconciliation. The difference will be reflected as the beginning balance of
5 the transmission reconciliation for the period January 2020 through December 2020,
6 which will be filed with the PUC in early 2021.

7
8 **Q. What is the status of the balance associated with the transmission service net over-**
9 **recovery incurred during the period January 2017 through December 2017?**

10 A. Page 6 of Schedule REP-12 presents the final balance of the net over-recovery incurred
11 during the period January 2017 through December 2017. Of the approximately \$3.9
12 million net over-recovery, the Company has a net balance due to customers of \$61,498.
13 This remaining balance is reflected in the current transmission service reconciliation as
14 an adjustment to the amount to be recovered by the Company, as mentioned previously.

15
16 **Q. What is the status of the balance associated with the transmission service net over-**
17 **recovery incurred during the period January 2018 through December 2018?**

18 A. Page 7 of Schedule REP-12 presents the status of the transmission expense net over-
19 recovery incurred during the period January 2018 through December 2018. The
20 Company is currently crediting/recovering this amount during the 12 months ending
21 March 31, 2020. Page 7 of Schedule REP-12 shows the net over-recovery of

1 \$20.8 million approved to be credited to or recovered from customers, as appropriate, by
2 rate class. As of January 31, 2020, there is a net balance remaining of approximately
3 \$4.4 million to be credited to or recovered from customers. The Company will continue
4 to recover or credit the under/over-recovery, as appropriate, through March 31, 2020.
5 The ending balance, positive or negative, will be included as an adjustment to the
6 transmission service reconciliation for the period January 2020 through December 2020,
7 which will be filed with the PUC in early 2021.

8
9 Transmission Service Cost Adjustment Factors (TSCAF)

10 **Q. What are the Company's proposed TSCAFs?**

11 A. The proposed TSCAFs for the period April 1, 2020 through March 31, 2021 are
12 presented in Schedule REP-13. As shown on Schedule REP-13, Page 1, Line (3), the
13 cumulative transmission service net over-recovery as of December 31, 2019, including
14 estimated interest during the credit/recovery period, is approximately \$15.0 million, and
15 the proposed factors are designed on each rate class's share of this amount. For billing
16 purposes, the TSCAFs are included with the base transmission kWh charge on
17 customers' bills.

18
19 **Q. How were the proposed factors developed?**

20 A. The proposed TSCAFs are calculated by taking each class's over/under-recovery of
21 expense determined in Schedule REP-12, plus interest during the recovery period, and

1 dividing the total by the forecasted kWh deliveries for that class for the period April 1,
2 2020 through March 31, 2021 to determine the individual class adjustment factors, as
3 shown in Schedule REP-13.

4
5 Transmission-Related Uncollectible Expense

6 **Q. Please describe the recovery of transmission-related uncollectible expense.**

7 A. Pursuant to the Company's TSCAP, the Company is allowed to recover an allowance for
8 the Company's uncollectible expense associated with amounts billed through
9 transmission charges at the uncollectible rate approved by the PUC. Transmission-
10 related uncollectible expense is estimated to set the Transmission Service Uncollectible
11 Factors for the upcoming year as the approved uncollectible percentage applied to the
12 sum of: (1) the forecast of base transmission expense, (2) any over- or under-recovery of
13 transmission expense during the prior year, and (3) any over- or under-recovery of
14 transmission uncollectible expense allowance during the prior year.

15
16 This amount is subject to an annual reconciliation based on actual transmission revenue
17 billed by the Company during the applicable period.

18
19 **Q. How are the proposed transmission-related uncollectible factors calculated?**

20 A. The calculation of the Transmission Uncollectible Factors is shown in Schedule REP-14.
21 The estimated transmission uncollectible expense for 2020 is calculated by multiplying

1 the allowable uncollectible rate of 1.30% by the sum of: (1) the estimated base
2 transmission revenue for the period April 1, 2020 through March 31, 2021; (2) the
3 transmission service net over-recovery balance including interest for 2019; and (3) the
4 under-recovery including interest of transmission-related uncollectible expense during the
5 period January 1, 2019 through December 31, 2019. The total transmission uncollectible
6 expense for 2020 is shown by rate class on Line (6) of Schedule REP-14. This estimate
7 is divided by the forecasted kWh deliveries for each rate class during April 1, 2020
8 through March 31, 2021, resulting in per kWh charges for each rate class. The final
9 Transmission Uncollectible Factors include the 2020 Transmission Uncollectible
10 Reconciliation Factors, shown on Line (9) of Schedule REP-14, that are developed in
11 Schedule REP-15. For billing purposes, the Transmission Uncollectible and
12 Transmission Uncollectible Reconciliation Factors are included with the Transmission
13 Service kWh charges on customers' bills.

14
15 **Q. Did the Company prepare a reconciliation of the transmission-related uncollectible**
16 **expense for the period ending December 31, 2019?**

17 A. Yes. As explained above, on an annual basis, the Company reconciles the revenue billed
18 through the Transmission Uncollectible Factors to the Transmission Uncollectible
19 Expense allowance based on actual transmission service revenue billed during the
20 reconciliation period. This reconciliation is shown in Schedule REP-15, Page 1. The
21 actual revenue billed through the Transmission Uncollectible Factors is shown on Line

1 (1) of Schedule REP-15, Page 1. Transmission Uncollectible Expense allowance is
2 calculated on Lines (2) through (7) as the actual Transmission Service revenue billed
3 during the period January 2019 through December 2019 multiplied by the uncollectible
4 percentage of 1.30%. As indicated on Line (8), an under-recovery of (\$84,730) of the
5 transmission uncollectible allowance was incurred during the reconciliation period. As
6 indicated on Line (9), the net ending balance of the recovery of the prior period under-
7 collection from calendar year 2017 is (\$13,069), representing a recovery due from
8 customers. Line (8) and Line (9) are then summed, resulting in a net under-recovery of
9 (\$97,799), as shown on Line (10). The Transmission Uncollectible Reconciliation
10 Factors are calculated on Line (17) as the transmission uncollectible over/under-recovery
11 per rate class, including interest, divided by the forecasted kWh deliveries during the
12 period April 1, 2020 through March 31, 2021.

13
14 Page 2 of Schedule REP-15 shows the detail of the Transmission Uncollectible Factor
15 Revenue. The total revenue billed through the factors is calculated in Column (c) for
16 each rate class. The revenue associated with the recovery or refund of the prior
17 reconciliation period's over/under-recovery, shown in Column (d), is subtracted from the
18 total revenue to determine the base revenue for the current reconciliation period.

19

1 **Q. What is the status of the recovery associated with the transmission service**
2 **uncollectible under-recovery incurred during the period January 2017 through**
3 **December 2017?**

4 A. Page 4 of Schedule REP-15 presents the status of the under-recovery incurred during the
5 period January 2017 through December 2017 for each rate class. The remaining balance
6 due to be recovered from customers of \$13,069 has been included as adjustment to the
7 transmission uncollectible reconciliation for the period January 2019 through December
8 2019, as shown on Schedule REP-15, Page 1, Line (9).

9
10 **Q. What is the status of the recovery associated with the transmission service**
11 **uncollectible under-recovery incurred during the period January 2018 through**
12 **December 2018?**

13 A. Page 5 of Schedule REP-15 presents the status of the under-recovery incurred during the
14 period January 2018 through December 2018 for each rate class. The Company will
15 continue to recover the under-recovery through March 31, 2020. The ending balance,
16 positive or negative, will be included as adjustments to the transmission uncollectible
17 reconciliation for the period January 2020 through December 2020.

18

1 **VIII. Net Metering Charge and Reconciliation of Renewable Net Metering Credits and**
2 **Payments to Qualifying Facilities with Renewable Generation**

3 **Q. Please describe the costs that the Company is incurring pursuant to the Net**
4 **Metering Provision, RIPUC No. 2207.**

5 A. Pursuant to the Company’s Net Metering Provision, RIPUC No. 2207, the Company pays
6 Renewable Net Metering Credits to an Eligible Net Metering System (Host Customer) for
7 up to one hundred percent (100%) of the Host Customer’s usage at the Eligible Net
8 Metering System site over the applicable billing period.⁴ The Renewable Net Metering
9 Credit is equal to the total kWh of electricity generated in excess of that consumed on-
10 site during the billing period multiplied by the sum of the following:

- 11 1) SOS kWh charge for the rate class applicable to the net metering customer;
- 12 2) Distribution kWh charge;
- 13 3) Transmission kWh charge; and
- 14 4) Transition kWh charge.

15
16 For kWh generation between 100 percent and 125 percent of the Host Customer’s on-site
17 usage, the Company pays the SOS rate applicable to the Host Customer for all kWh
18 generated.

19
20

⁴ Additionally, municipal delivery service accounts designated by the municipality or multi-municipal collaborative are eligible for net metering at an Eligible Net Metering System site.

1 **Q. Please describe the costs that the Company is incurring pursuant the Qualifying**
2 **Facility Power Purchase Rate, RIPUC No. 2098.**

3 A. Pursuant to the provisions of the Qualifying Facility Power Purchase Rate, RIPUC No.
4 2098, for facilities meeting the definition of renewable energy resources, as defined in
5 R.I. Gen. Laws § 39-26-5, the Company pays the SOS rate applicable to that customer for
6 each kWh generated in excess of the facility's requirements.

7
8 **Q. Does the Company receive payments from ISO-NE for energy generated by net**
9 **metered customers and renewable Qualifying Facilities?**

10 A. Yes. For kWh generated and exported onto the distribution system by both eligible
11 renewable net metering customers and renewable Qualifying Facilities that are registered
12 with ISO-NE as generating assets, the Company receives payments from ISO-NE for the
13 sale of this energy in the market, as well as capacity payments, if any. These payments
14 are used to offset the Renewable Net Metering Credits and payments to renewable
15 Qualifying Facilities.

16
17 **Q. How does the Company recover the cost of the Renewable Net Metering Credits and**
18 **the payments to renewable Qualifying Facilities?**

19 A. Pursuant to the Company's tariffs, the Company recovers through a Net Metering Charge
20 the sum of the following: (1) all Renewable Net Metering Credits paid to eligible net
21 metering customers, less any payments from ISO-NE for the sale of excess generation;

1 and (2) the difference between the payments made to Qualifying Facilities with
2 renewable generation at the SOS rate and the net proceeds received from ISO-NE for
3 market energy sold and any capacity payments. The Net Metering Charge is a uniform
4 per-kWh charge applicable to all customers and is included with the LTC Recovery
5 Factor on customer bills, labeled as the Renewable Energy Distribution charge.
6

7 **Q. What is the total cost that the Company is proposing to recover through the Net**
8 **Metering Charge?**

9 A. The Net Metering reconciliation is shown in Schedule REP-16. The total amount of
10 Renewable Net Metering Credits during 2019 totaled \$21,183,499, as shown in Column
11 (a) of Page 1. The net proceeds received during 2019 from ISO-NE for exported
12 generation totaled \$3,264,064, as shown in Column (b). The difference between the
13 payments made to Qualifying Facilities with renewable generation at the SOS rate and
14 the net proceeds received from ISO-NE for market energy sold and capacity payments
15 totaled \$972,911 as shown in Column (c). The total costs incurred during the period
16 January 1, 2019 through December 31, 2019 including adjustments is \$18,822,783, as
17 shown in Column (e).
18

1 **Q. Please describe the adjustments shown in the Net Metering reconciliation, Schedule**
2 **REP-16, Column (d).**

3 A. Column (d) includes an April 2019 adjustment of \$69,563, which is a credit due to
4 customers and the remaining balance of the costs incurred during 2017 and recovered
5 from customers during the period ending March 31, 2019, as shown on Page 3.
6

7 **Q. Is the Company proposing a Net Metering Charge for April 1, 2020?**

8 A. Yes. As shown on Schedule REP-16, Page 1, item (2), the Company is proposing a Net
9 Metering Charge of 0.266¢ per kWh.
10

11 **Q. What is the status of the recovery of net metering costs incurred during 2017?**

12 A. Schedule REP-16, Page 2, presents the final balance of the costs incurred during the
13 period January 2017 through December 2017. Of the approximately \$3.1
14 million under-recovery, the Company over-recovered a net of \$69,563. This remaining
15 balance is reflected in the current reconciliation as an adjustment to the amount to be
16 recovered by the Company.
17

18 **Q. What is the status of the recovery of net metering costs incurred during 2018?**

19 A. Schedule REP-16, Page 3, contains the status of the recovery of costs incurred during the
20 period January 2018 through December 2018. This balance is currently being recovered
21 from customers during the period April 1, 2019 through March 31, 2020. The Company

1 will continue to recover the costs through March 31, 2020. The ending balances, positive
2 or negative, will be included as an adjustment to the Net Metering reconciliation for the
3 period January 2020 through December 2020, which will be filed with the PUC in early
4 2021.

5
6 **Q. Please describe Schedule REP-17.**

7 A. Schedule REP-17 is the Company's Net Metering report. This schedule includes a listing
8 of all eligible net metering facilities in the Company's service territory, along with a
9 description of each unit, including fuel type, capacity, and interconnection date. An
10 estimate of each unit's annual kWh production is also included in the report.

11
12 **IX. LTC Recovery Factor and Reconciliation**

13 **Q. Please describe the LTC Recovery Provision.**

14 A. Pursuant to LTC Recovery Provision, RIPUC No. 2174, the Company is allowed to
15 recover the costs incurred in accordance with the provisions of R.I. Gen. Laws § 39-26.1,
16 Long-Term Contracting Standard for Renewable Energy, and R.I. Gen. Laws § 39-26.2,
17 Distributed Generation Standard Contracts. Pursuant to Rhode Island law, the Company
18 is required to enter into contracts with eligible renewable energy resources at fixed prices
19 for the purchase of energy, capacity, and Renewable Energy Certificates (RECs)
20 (collectively, the Contract Products). The Company will sell the energy purchased
21 through the contracts into the ISO-NE energy market and will use the RECs to satisfy the

1 Company's REC obligation associated with SOS. The difference between the cost
2 incurred under each contract, equal to the fixed contract price multiplied by the
3 generation of the facility, and the net proceeds that the Company receives for the sale of
4 the Contract Products, is referred to as the above market contract cost. Pursuant to R.I.
5 Gen. Laws § 39-26.1-5(f), the above market contract costs must be recovered from all
6 retail delivery service customers through a uniform per-kWh factor. In addition, R.I.
7 Gen. Laws § 39-26.1-4 authorizes the Company to recover 2.75 percent of the total
8 payments made under each contract as remuneration. Finally, certain administrative and
9 other costs authorized through various sections of the statutes will be tracked and
10 recovered annually.

11
12 On an annual basis, the Company is required to reconcile the revenue billed through the
13 LTC Recovery Factor and the expenses incurred pursuant to the LTCRER Reconciliation
14 Provision, RIPUC No. 2175.

15
16 **Q. Has the Company prepared a reconciliation of the LTC Recovery Factor?**

17 A. Yes. The reconciliation of the LTC Recovery Factor is included in Schedule REP-18
18 Revised. Page 1 contains a summary of revenue and expenses while pages 3 and 4
19 contain detailed revenue and expense information, respectively. Page 5 contains the
20 status of the under-recovered balance incurred through December 2017 that was
21 recovered from customers during the period April 1, 2018 through March 31, 2019. The

1 ending balance is included as an adjustment on Page 1, Column (d). Page 6 contains the
2 status of the under-recovered balance incurred in from January 2018 to December 2018.

3
4 **Q. Please summarize the results of the Company's LTC Recovery Factor reconciliation**
5 **for the period January 1, 2019 through December 31, 2019.**

6 A. The LTC Recovery Factor reconciliation for the 12 months ending December 31, 2019 is
7 presented similar to the other reconciliations presented in this filing and results in an
8 under-recovery of approximately ~~15.9~~\$15.7 million, inclusive of interest during the
9 recovery period.

10
11 **Q. What is the LTC Recovery Factor the Company is proposing to be effective April 1,**
12 **2020?**

13 A. The Company is proposing a LTC Recovery Reconciliation Factor effective April 1,
14 2020 of ~~0.2270~~0.223¢ per kWh. The calculation of the factor is shown on Schedule REP-
15 18 Revised, Page 1. The under-recovery of ~~\$15.9~~\$15.7 million, including interest, is
16 divided by the forecasted kWh delivery during the recovery period, resulting in a charge
17 of ~~0.2250~~0.221¢ per kWh. Line (21) provides for an adjustment to the LTC Recovery
18 Factor for uncollectible revenue, which results in an incremental factor of 0.002¢ per
19 kWh. Line (23) shows the currently effective base LTC Recovery Factor charge of
20 0.481¢ per kWh, effective January 1, 2020 through June 30, 2020 associated with long-
21 term contracts. This factor will terminate on June 30, 2020 at which time a new charge

1 or credit factor will become effective to either recover or credit the estimated above or
2 below market value of Contract Products during the period July 1, 2020 through
3 December 31, 2020. Line (24) shows the net LTC Recovery Factor of ~~0.708~~0.704¢ per
4 kWh to be effective April 1, 2020 through June 30, 2020.

5
6 **Q. Please describe the revenue billed through the LTC Recovery Factor and reflected**
7 **in Column (b) of the LTC reconciliation shown on Schedule REP-18 Revised, Page**
8 **1.**

9 A. Page 3 contains the derivation of the LTC Recovery Factor revenue billed during the
10 reconciliation period. For billing purposes, the LTC Recovery Factor and the Net
11 Metering Charge are combined and shown on customers' bills as the Renewable Energy
12 Distribution Charge. Column (a) on Page 3 shows the monthly Renewable Energy
13 Distribution Charge. The LTC Recovery Factor revenue reflected in the LTC
14 reconciliation is the result of disaggregating the revenue billed through the Renewable
15 Energy Distribution Charge. The first step is to remove the revenue related to the Net
16 Metering Charge portion of the Renewable Energy Distribution Charge revenue, which is
17 shown in Column (b). The LTC Recovery Factor revenue is shown in Column (c) and is
18 the difference between the Renewable Energy Distribution Charge revenue shown in
19 Column (a) and the Net Metering Charge revenue shown in Column (b). Column (d)
20 represents the revenue associated with the prior year's under-recovery. The revenue
21 supporting the uncollectible expense allowance is shown in Column (f). The remaining

1
2 LTC Recovery Factor revenue shown in Column (g) represents the base revenue
3 available to offset LTC expenses incurred during the reconciliation period.
4

5 **Q. Please describe the expenses included in the LTC Recovery Factor reconciliation**
6 **and shown in Column (c) of Schedule REP-18 Revised, Page 1.**

7 A. Page 4 shows a summary of monthly expenses associated with the Company's long term
8 and distributed generation standard contracts. The total contract cost shown in Column
9 (a) less capacity revenue in Column (b) results in net contract payments shown in
10 Column (c) for the 12-month period. The Contract Products, consisting of the energy
11 market proceeds resulting from the sale of the purchased energy into the ISO-NE energy
12 market is shown in Columns (d). The total Forward Capacity Market proceeds are shown
13 in Column (e), with the Customer Share of the Forward Capacity Market proceeds in
14 Column (f). Column (g) shows the REC Proceeds, and Column (h) shows the total
15 monthly Above/(Below) Market Costs which consists of Column (c) less Columns (d),
16 (f), and (g). Column (i) shows Other Charges and Credits. Column (j) shows the
17 contract remuneration. Column (k) shows the administrative costs incurred in relation to
18 bidding capacity on behalf of qualified DG projects into the ISO New England Forward
19 Capacity Market (FCM), as was approved in RIPUC Docket No. 4676, Proposal to Bid
20 Capacity of Customer-Owned DG Facilities into the Forward Capacity Market. Column
21 (l) shows the total costs to be recovered for the year.

1 **Q. Please describe the contract costs in more detail.**

2 A. As described above, the Company executes contracts with eligible renewable resources to
3 purchase energy, capacity, and RECs at a bundled price. Thirty-three resources that have
4 executed contracts under either the long-term contracting or distributed generation
5 standard contract statutes were commercially operational for at least one or more months
6 during the reconciliation period. The amount paid each month under the individual
7 contracts is equal to the MWh generated by the renewable resource multiplied by each
8 contract's bundled price. If the resource has bid capacity into the ISO-NE Forward
9 Capacity Market and is receiving direct capacity payments from ISO-NE, these payments
10 are reflected on the monthly contract invoice as a reduction to the total payment owed to
11 the resource.

12

13 **Q. How are the energy market proceeds determined?**

14 A. The Company sells the energy generated by each renewable resource into the ISO-NE
15 energy market and receives a payment from ISO-NE equal to the hourly generation of
16 each resource multiplied by the hourly locational marginal price.

17

18 **Q. Please describe the treatment of RECs in the LTCRER reconciliation.**

19 A. As first approved in the Company's 2013 Renewable Energy Standard Plan in RIPUC
20 Docket No. 4315, the Company uses the RECs produced by each resource to satisfy its
21 RES obligation for SOS. The Company determines the market value of the RECs on a

1 quarterly basis as they are delivered. RECs are delivered to the Company through the
2 GIS on a quarterly basis, and the Company assesses their value at delivery every three
3 months by calculating the average of the available market prices two weeks before and
4 after the delivery. Market price information includes recent REC solicitation results,
5 broker information, and published indices in accordance with the methodology approved
6 in the RES Plan.

7
8 To illustrate the valuation methodology, after the first quarter of generation is completed,
9 the RECs are “minted” or created within the GIS and then delivered to the Company. At
10 this point, the Company averages the available market price points for the period two
11 weeks prior to and after the delivery date. This calculation produces the current market
12 value, which is then applied to the quantity of RECs delivered for that quarterly period.
13 On an annual basis, there are four REC deliveries through the GIS, and those quarterly
14 deliveries are valued using this methodology. Therefore, the value of each delivery of
15 RECs reflects the market price at the time they were delivered.

16
17 The value of the generated RECs is recorded in the LTC Recovery Factor reconciliation
18 as a credit, or an offset to total cost, and is simultaneously recorded in the RES
19 reconciliation⁵ as an expense.
20

⁵ Pursuant to R.I. Gen. Laws § 39-26-1.

1 **Q. Please describe the calculation of the contract remuneration.**

2 A. The contract remuneration is shown in Schedule REP-18 Revised, Page 4, Column (j)
3 and is calculated as 2.75% of the actual net contract payments shown in Column (c).
4

5 **Q. What is the status of the under-recovery of costs incurred as of December 2017?**

6 A. Schedule REP-18 Revised, Page 5, presents the final balance of the under-recovery
7 incurred during the period January 2017 through December 2017. Of the approximately
8 \$5.0 million under-recovery, the Company under-recovered a net of \$19,280. This
9 remaining balance is reflected in the current reconciliation as an adjustment to the
10 amount to be recovered by the Company.
11

12 **Q. What is the status of the under-recovery of costs incurred as of December 2018?**

13 A. Schedule REP-18 Revised, Page 6, contains the status of the under-recovery incurred
14 during the period January 2018 through December 2018. This balance is currently being
15 recovered from customers during the period April 1, 2019 through March 31, 2020. The
16 Company will continue to recover the under-recovery through March 31, 2020. The
17 ending balances, positive or negative, will be included as an adjustment to the LTC
18 Recovery reconciliation for the period January 2020 through December 2020, which will
19 be filed with the PUC in early 2021.
20

1 X. **Typical Bills**

2 Q. **Has the Company provided a typical bill analysis to illustrate the impact of the**
3 **proposed rate changes?**

4 A. Yes. The typical bill analysis is included in Schedule REP-19 Revised. The impact of all
5 rate changes proposed in this filing on a typical residential SOS customer using 500 kWh
6 per month is an increase of ~~\$2.15~~\$2.13, from \$118.05 to ~~\$120.20~~\$120.18 or
7 approximately 1.8% percent.

8

9 XI. **Summary of Retail Delivery Rates**

10 Q. **Is the Company including a revised Summary of Retail Delivery Rates tariff,**
11 **RIPUC No. 2095, or Summary of Rates – Standard Offer, RIPUC 2096, in this**
12 **filing?**

13 A. No, the Company is not revising these tariffs at this time. The Company currently has
14 rate changes for April 1, 2020 pending approval by the PUC in RIPUC Docket No. 4995,
15 the Fiscal Year 2021 Electric Infrastructure, Safety, and Reliability Plan. In addition, the
16 Company will submit its RES filing before March 1, 2020 and will propose its RES
17 charge effective April 1, 2020. Finally, the Company has also proposed base Standard
18 Offer Service rates for effect April 1, 2020 in RIPUC Docket No. 4935. Therefore, the
19 Company will submit its revised Summary of Rates Tariffs as compliance filing once the
20 PUC has issued its decision in all dockets related to rate changes proposed for April 1,
21 2020.

1 **XII. Conclusion**

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

3 **A. Yes, it does.**

Schedules of Robin E. Pieri

Schedule REP-1 <u>Revised</u>	Summary of Proposed Rates Effective April 1, 2020 through March 31, 2021
Schedule REP-2	Standard Offer Service Reconciliation for the period January 2019 through December 2019
Schedule REP-3	Calculation of Standard Offer Adjustment Factors
Schedule REP-4	Calculation of Standard Offer Service Administrative Cost Factors
Schedule REP-5	Standard Offer Service Administrative Cost Adjustment Reconciliation for the period January 2019 through December 2019
Schedule REP-6	Cash Working Capital Analysis
Schedule REP-7	Calculation of SOS Administrative Cost Reconciliation Adjustment Factors
Schedule REP-8	Unbilled SOS Billing Adjustment
Schedule REP-9	Calculation of Proposed Non-Bypassable Transition Charge
Schedule REP-10	Non-Bypassable Transition Charge Reconciliation and Non-Bypassable Transition Adjustment Charge Reconciliation for the period January 2019 through December 2019
Schedule REP-11	Calculation of Proposed Base Transmission Charges
Schedule REP-12	Transmission Service Reconciliation for the period January 2019 through December 2019
Schedule REP-13	Calculation of Proposed Transmission Adjustment Factors
Schedule REP-14	Calculation of Proposed Transmission Uncollectible Factors
Schedule REP-15	Transmission Uncollectible Factor Reconciliation for the period January 2019 through December 2019
Schedule REP-16	Calculation of Net Metering Charge
Schedule REP-17	Net Metering Report for 2019
Schedule REP-18 <u>Revised</u>	LTCRER Reconciliation and Calculation of Proposed LTC Factor
Schedule REP-19 <u>Revised</u>	Typical Bill Analysis

REVISED

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 5005
2020 REVISED ANNUAL RETAIL RATE FILING
WITNESS: ROBIN E. PIERI
SCHEDULES**

Schedule REP-1 Revised

Summary of Proposed Rates Effective April 1, 2020 through March 31, 2021

The Narragansett Electric Company
Summary of Proposed Rate Changes for April 1, 2020

Rate Class	Standard Offer Adjustment Factor (1) (a)	Standard Offer Service Administrative Cost Factor (1) (b)	Base Transition Charge/(Credit) (c)	Transition Adjustment Charge/(Credit) (d)	Net Transition Charge/(Credit) (e)
	Schedule REP-3	Schedule REP-4	Schedule REP-9	Schedule REP-10	(c) + (d)
(1) A-16	(\$0.00294)	\$0.00230	(\$0.00074)	(\$0.00008)	(\$0.00082)
(2) A-60	(\$0.00294)	\$0.00230	(\$0.00074)	(\$0.00008)	(\$0.00082)
(3) C-06	\$0.00094	\$0.00224	(\$0.00074)	(\$0.00008)	(\$0.00082)
(4) G-02 per kWh	\$0.00094	\$0.00224	(\$0.00074)	(\$0.00008)	(\$0.00082)
(5) G-32/B-32 per kWh	\$0.00381	\$0.00186	(\$0.00074)	(\$0.00008)	(\$0.00082)
(6) Streetlights	\$0.00094	\$0.00224	(\$0.00074)	(\$0.00008)	(\$0.00082)
(7) X-01 per kWh	\$0.00381	\$0.00186	(\$0.00074)	(\$0.00008)	(\$0.00082)

Rate Class	Base Transmission Charge (f)	Transmission Adjustment Factor Charge/(Credit) (g)	Transmission Uncollectible Factor (h)	Net Transmission Charge (i)	Net Metering Surcharge (j)	LTCRER Charge (k)
	Schedule REP-11	Schedule REP-13	Schedule REP-14	(f) + (g) + (h)	Schedule REP-16	Schedule REP-18 Revised
(8) A-16	\$0.03096	(\$0.00189)	\$0.00038	\$0.02945	\$0.00266	\$0.00704
(9) A-60	\$0.03096	(\$0.00189)	\$0.00038	\$0.02945	\$0.00266	\$0.00704
(10) C-06	\$0.03110	(\$0.00467)	\$0.00031	\$0.02674	\$0.00266	\$0.00704
(11) G-02 per kWh	\$0.01214	(\$0.00399)	\$0.00030	\$0.00845	\$0.00266	\$0.00704
(12) G-02 per kW	\$4.37			\$4.37		
(13) G-32/B-32 per kWh	\$0.01264	(\$0.00070)	\$0.00034	\$0.01228	\$0.00266	\$0.00704
(14) G-32/B-32 per kW	\$4.47			\$4.47		
(15) Streetlights	\$0.01610	\$0.00021	\$0.00026	\$0.01657	\$0.00266	\$0.00704
(16) X-01 per kWh	\$0.01264	(\$0.00070)	\$0.00034	\$0.01228	\$0.00266	\$0.00704
(17) X-01 per kW	\$4.47			\$4.47		

(1) To be included with Standard Offer Service rate for billing purposes

REVISED

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 5005
2020 REVISED ANNUAL RETAIL RATE FILING
WITNESS: ROBIN E. PIERI
SCHEDULES**

Schedule REP-18 Revised

LTCRER Reconciliation and Calculation of Proposed LTC Factor

The Narragansett Electric Company
Long-Term Contracting For Renewable Energy Recovery (LTCRER) Reconciliation
For the Period January 1, 2019 through December 31, 2019
Reconciliation and LTCRER Factor Calculation

		<u>Beginning</u> <u>Balance</u> (a)	<u>Revenue</u> (b)	<u>Expense</u> (c)	<u>Adjustments</u> (d)	<u>Monthly</u> <u>Over (Under)</u> (e)	<u>Ending</u> <u>Balance</u> (f)
(1)	Jan-19	\$0	\$1,499,849	\$4,593,514		(\$3,093,665)	(\$3,093,665)
(2)	Feb-19	(\$3,093,665)	\$3,659,362	\$5,391,962		(\$1,732,600)	(\$4,826,265)
(3)	Mar-19	(\$4,826,265)	\$3,572,101	\$6,390,858		(\$2,818,757)	(\$7,645,022)
(4)	Apr-19	(\$7,645,022)	\$3,291,966	\$5,331,191	(\$19,280)	(\$2,058,505)	(\$9,703,527)
(5)	May-19	(\$9,703,527)	\$3,199,636	\$5,796,472		(\$2,596,836)	(\$12,300,363)
(6)	Jun-19	(\$12,300,363)	\$3,274,227	\$6,228,395		(\$2,954,168)	(\$15,254,531)
(7)	Jul-19	(\$15,254,531)	\$4,198,958	\$1,341,387		\$2,857,571	(\$12,396,960)
(8)	Aug-19	(\$12,396,960)	\$5,108,078	\$5,034,341		\$73,737	(\$12,323,223)
(9)	Sep-19	(\$12,323,223)	\$4,216,285	\$5,368,413		(\$1,152,128)	(\$13,475,351)
(10)	Oct-19	(\$13,475,351)	\$3,371,073	\$941,045		\$2,430,028	(\$11,045,323)
(11)	Nov-19	(\$11,045,323)	\$3,295,991	\$6,428,198		(\$3,132,207)	(\$14,177,530)
(12)	Dec-19	(\$14,177,530)	\$3,677,588	\$6,182,101		(\$2,504,513)	(\$16,682,043)
(13)	Jan-20	(\$16,682,043)	\$1,487,223			\$1,487,223	(\$15,194,820)
(14)			\$43,852,337	\$59,027,877	(\$19,280)	(\$15,194,820)	(\$15,194,820)
(15)	Interest						(\$192,594)
(16)	Ending Balance Including Interest						(\$15,387,414)
(17)	Interest During Recovery Period						(\$295,559)
(18)	Ending Balance Including Interest During the Recovery Period						(\$15,682,973)
(19)	Forecasted kWhs for the period April 1, 2020 through March 31, 2021						<u>7,067,418,959</u>
(20)	Unadjusted charge per kWh						\$0.00221
(21)	Adjustment for Uncollectible Allowance						<u>\$0.00002</u>
(22)	Proposed LTC Recovery Reconciliation Factor Effective April 1, 2020						\$0.00223
(23)	currently effective LTC Recovery Factor						<u>\$0.00481</u>
(24)	LTC Recovery Factor Effective April 1, 2020						\$0.00704

(a) Prior month's column (f)
(b) Page 3, Column (g)
(c) Page 4, Column (l)
(d) Page 5, Remaining Balance from Under Recovery incurred during 2017
(e) Column (b) - Column (c) + Column (d)
(f) Column (a) + Column (e)

(15) [(Column (a), Line (1) + Column (f), Line (14)) ÷ 2] x average short term interest rate of 2.535%
(16) Column (f), Line (14) + Line (15)
(17) Page 2, Line (16)
(18) Line (16) + Line (17)
(19) per Company forecast
(20) Line (18) ÷ Line (19), truncated to 5 decimal places
(21) Line (20) x the Uncollectible rate of 1.30%, truncated to 5 decimal places
(22) Line (20) + Line (21)
(23) per Docket 4992, LTC Recovery Factor filing, November 2019, Attachment 1, Page 1, Line (8)
(24) Line (22) + Line (23)

The Narragansett Electric Company
Long-Term Contracting For Renewable Energy Recovery (LTCRER) Reconciliation
Reconciliation and LTCRER Factor Calculation
Calculation of Interest During Recovery Period

		<u>Beginning</u> <u>Balance</u> (a)	<u>Recovery</u> (b)	<u>Ending</u> <u>Balance</u> (c)	<u>Money Pool</u> <u>Rate</u> (d)	<u>Interest</u> (e)
(1)	Jan-20	(\$15,387,414)		(\$15,387,414)	2.54%	(\$32,506)
(2)	Feb-20	(\$15,419,920)		(\$15,419,920)	2.54%	(\$32,575)
(3)	Mar-20	(\$15,452,495)		(\$15,452,495)	2.54%	(\$32,643)
(4)	Apr-20	(\$15,485,138)	(\$1,290,428)	(\$14,194,710)	2.54%	(\$31,349)
(5)	May-20	(\$14,226,059)	(\$1,293,278)	(\$12,932,781)	2.54%	(\$28,687)
(6)	Jun-20	(\$12,961,468)	(\$1,296,147)	(\$11,665,321)	2.54%	(\$26,012)
(7)	Jul-20	(\$11,691,333)	(\$1,299,037)	(\$10,392,296)	2.54%	(\$23,326)
(8)	Aug-20	(\$10,415,622)	(\$1,301,953)	(\$9,113,669)	2.54%	(\$20,628)
(9)	Sep-20	(\$9,134,297)	(\$1,304,900)	(\$7,829,397)	2.54%	(\$17,918)
(10)	Oct-20	(\$7,847,315)	(\$1,307,886)	(\$6,539,429)	2.54%	(\$15,196)
(11)	Nov-20	(\$6,554,625)	(\$1,310,925)	(\$5,243,700)	2.54%	(\$12,462)
(12)	Dec-20	(\$5,256,162)	(\$1,314,041)	(\$3,942,121)	2.54%	(\$9,716)
(13)	Jan-21	(\$3,951,837)	(\$1,317,279)	(\$2,634,558)	2.54%	(\$6,957)
(14)	Feb-21	(\$2,641,515)	(\$1,320,758)	(\$1,320,757)	2.54%	(\$4,185)
(15)	Mar-21	(\$1,324,942)	(\$1,324,942)	\$0	2.54%	(\$1,399)
(16)						(\$295,559)

- (a) Jan-20: Page 1, Line (16). Feb-20 through Mar-21: Column (c) + Column (e) of previous month
(b) Apr-2020: (Column (a)) ÷ 12. May-2020: (Column (a)) ÷ 11, etc.
(c) Column (a) - Column (b)
(d) Average CY19 Rate for Money Pool
(e) (Column (a) + Column (c) ÷ 2) x (Column (d) ÷ 12)

The Narragansett Electric Company
Long-Term Contracting For Renewable Energy Recovery (LTCRER) Reconciliation
For the Period January 1, 2019 through December 31, 2019

Revenue

			Total Renewable Energy Distribution Charge <u>Revenue</u> (a)	Net Metering <u>Revenue</u> (b)	LTCRER <u>Revenue</u> (c)	LTCRER Reconciliation <u>Revenue</u> (d)	Net LTCRER <u>Revenue</u> (e)	Uncollectible <u>Revenue</u> (f)	Net LTCRER Revenue Adjusted for <u>Uncollectibles</u> (g)
(1)	Jan-19	(i)	\$1,823,032	\$117,544	\$1,705,488	\$185,884	\$1,519,604	\$19,755	\$1,499,849
(2)	Feb-19		\$4,381,544	\$261,093	\$4,120,451	\$412,891	\$3,707,560	\$48,198	\$3,659,362
(3)	Mar-19		\$4,276,099	\$254,494	\$4,021,605	\$402,455	\$3,619,150	\$47,049	\$3,572,101
(4)	Apr-19		\$3,991,475	\$294,735	\$3,696,740	\$361,415	\$3,335,325	\$43,359	\$3,291,966
(5)	May-19		\$3,934,025	\$362,098	\$3,571,927	\$330,148	\$3,241,779	\$42,143	\$3,199,636
(6)	Jun-19		\$4,029,042	\$372,268	\$3,656,774	\$339,421	\$3,317,353	\$43,126	\$3,274,227
(7)	Jul-19		\$5,139,798	\$463,203	\$4,676,595	\$422,332	\$4,254,263	\$55,305	\$4,198,958
(8)	Aug-19		\$6,222,632	\$547,805	\$5,674,827	\$499,469	\$5,175,358	\$67,280	\$5,108,078
(9)	Sep-19		\$5,136,802	\$452,453	\$4,684,349	\$412,530	\$4,271,819	\$55,534	\$4,216,285
(10)	Oct-19		\$4,108,535	\$362,524	\$3,746,011	\$330,537	\$3,415,474	\$44,401	\$3,371,073
(11)	Nov-19		\$4,015,456	\$353,628	\$3,661,828	\$322,425	\$3,339,403	\$43,412	\$3,295,991
(12)	Dec-19		\$4,482,549	\$395,720	\$4,086,829	\$360,803	\$3,726,026	\$48,438	\$3,677,588
(13)	Jan-20	(ii)	\$1,914,058	\$213,021	\$1,701,037	\$194,225	\$1,506,812	\$19,589	\$1,487,223
(14)			\$53,455,047	\$4,450,586	\$49,004,461	\$4,574,535	\$44,429,926	\$577,589	\$43,852,337

- (i) reflects revenue associated with usage on and after January 1
- (ii) reflects revenue associated with usage prior to January 1

- (a) per Company revenue reports
- (b) Schedule REP-16, Pages 2 and 3, Column (b)
- (c) Column (a) - Column (b)
- (d) Pages 5 and 6, Column (b)
- (e) Column (c) - Column (d)
- (f) Column (e) x uncollectible rate (1.30%)
- (g) Column (e) - Column (f)

The Narragansett Electric Company
Long-Term Contracting For Renewable Energy Recovery (LTCRER) Reconciliation
For the Period January 1, 2019 through December 31, 2019

Expense Summary

		Total Contract	Capacity	Contract Cost	Energy	Forward	Customer Share		Above (Below)	Other		FCM	Total
		Cost	Revenue	Less Capacity	Market	Capacity Gross	Net Forward	REC	Market	Charges &	Remuneration	Admin	Costs
		(a)	(b)	(c)	Proceeds	Revenues	Revenues	Proceeds	(h)	(Credits)	(j)	Expenses	(l)
					(d)	(e)	(f)	(g)		(i)		(k)	(l)
(1)	Jan-19	\$7,452,927	\$311,500	\$7,141,427	\$2,134,411	\$6	\$6	\$573,662	\$4,433,349		\$196,389	(\$36,224)	\$4,593,514
(2)	Feb-19	\$7,308,350	\$311,500	\$6,996,850	\$1,797,301	\$0	\$0	\$0	\$5,199,549		\$192,413	\$0	\$5,391,962
(3)	Mar-19	\$8,406,827	\$311,476	\$8,095,351	\$1,927,115	\$0	\$0	\$0	\$6,168,236		\$222,622	\$0	\$6,390,858
(4)	Apr-19	\$7,688,317	\$312,631	\$7,375,686	\$1,389,424	\$0	\$0	\$857,903	\$5,128,359		\$202,831	\$0	\$5,331,191
(5)	May-19	\$6,985,203	\$311,476	\$6,673,727	\$1,060,782	\$0	\$0	\$0	\$5,612,945		\$183,527	\$0	\$5,796,472
(6)	Jun-19	\$7,405,020	\$208,791	\$7,196,229	\$1,152,263	\$14,964	\$13,468	\$0	\$6,030,498		\$197,896	\$0	\$6,228,395
(7)	Jul-19	\$6,527,618	\$208,791	\$6,318,827	\$1,363,291	\$15,409	\$13,868	\$3,780,328	\$1,161,341		\$173,768	\$6,279	\$1,341,387
(8)	Aug-19	\$6,251,277	\$208,791	\$6,042,486	\$1,159,660	\$17,358	\$15,622	\$0	\$4,867,204		\$166,168	\$969	\$5,034,341
(9)	Sep-19	\$6,255,987	\$208,791	\$6,047,196	\$869,899	\$13,884	\$12,495	\$0	\$5,164,802		\$166,298	\$37,313	\$5,368,413
(10)	Oct-19	\$7,941,798	\$206,394	\$7,735,404	\$1,107,678	\$0	\$0	\$5,901,671	\$726,055		\$212,724	\$2,266	\$941,045
(11)	Nov-19	\$8,142,511	\$206,394	\$7,936,117	\$1,726,162	\$0	\$0	\$0	\$6,209,955		\$218,243	\$0	\$6,428,198
(12)	Dec-19	<u>\$8,325,943</u>	<u>\$206,394</u>	<u>\$8,119,549</u>	<u>\$2,160,803</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$5,958,746</u>		<u>\$223,288</u>	<u>\$68</u>	<u>\$6,182,101</u>
(13)		\$88,691,778	\$3,012,929	\$85,678,849	\$17,848,789	\$61,621	\$55,459	\$11,113,563	\$56,661,039	\$0	\$2,356,168	\$10,671	\$59,027,877

- (a) per contract invoice
- (b) per contract invoice
- (c) Column (a) - Column (b)
- (d) from ISO invoice
- (e) from ISO invoice
- (f) Column (e) x 90%
- (g) per Company records (number of RECs received x transfer price)
- (h) Column (c) - Column (d) - Column (f) - Column (g)
- (i) Performance Guarantee Deposit refunds for terminated contracts
- (j) Column (c) x 2.75%
- (k) ISO-NE Forward Capacity Market Administrative Expense
- (l) Column (h) + Column (i) + Column (j) + Column (k)

The Narragansett Electric Company
Long-Term Contracting For Renewable Energy Reconciliation
For the Period January 1, 2019 through December 31, 2019

Status of Prior Period Over(Under) Recovery

Section 1

Incurred: January 1, 2017 through December 31, 2017
Recovery Period: April 1, 2018 through March 31, 2019

		Beginning Over(Under) Balance (a)	Adjustment Factor Charge/(Credit) (b)	Uncollectible Expenses (c)	Net Recovery (d)	Over(Under) Recovery (e)	Interest Balance (f)	Interest Rate (g)	Interest (h)	Ending Over(Under) Balance (i)
(1)	Jan-18	(\$4,957,855)	\$0	\$0	\$0	(\$4,957,855)	(\$4,957,855)	1.73%	(\$7,148)	(\$4,965,003)
(2)	Feb-18	(\$4,965,003)	\$0	\$0	\$0	(\$4,965,003)	(\$4,965,003)	1.88%	(\$7,779)	(\$4,972,782)
(3)	Mar-18	(\$4,972,782)	\$0	\$0	\$0	(\$4,972,782)	(\$4,972,782)	1.91%	(\$7,915)	(\$4,980,697)
(4)	Apr-18	(\$4,980,697)	\$158,974	\$1,987	\$156,987	(\$4,823,710)	(\$4,902,204)	2.23%	(\$9,110)	(\$4,832,820)
(5)	May-18	(\$4,832,820)	\$376,297	\$4,704	\$371,593	(\$4,461,227)	(\$4,647,024)	2.32%	(\$8,984)	(\$4,470,211)
(6)	Jun-18	(\$4,470,211)	\$387,984	\$4,850	\$383,134	(\$4,087,077)	(\$4,278,644)	2.25%	(\$8,022)	(\$4,095,099)
(7)	Jul-18	(\$4,095,099)	\$478,658	\$5,983	\$472,675	(\$3,622,424)	(\$3,858,762)	2.31%	(\$7,428)	(\$3,629,852)
(8)	Aug-18	(\$3,629,852)	\$520,153	\$6,502	\$513,651	(\$3,116,201)	(\$3,373,027)	2.28%	(\$6,409)	(\$3,122,610)
(9)	Sep-18	(\$3,122,610)	\$525,864	\$6,836	\$519,028	(\$2,603,582)	(\$2,863,096)	2.24%	(\$5,344)	(\$2,608,926)
(10)	Oct-18	(\$2,608,926)	\$395,665	\$5,144	\$390,521	(\$2,218,405)	(\$2,413,666)	2.36%	(\$4,747)	(\$2,223,152)
(11)	Nov-18	(\$2,223,152)	\$366,412	\$4,763	\$361,649	(\$1,861,503)	(\$2,042,328)	2.48%	(\$4,221)	(\$1,865,724)
(12)	Dec-18	(\$1,865,724)	\$412,287	\$5,360	\$406,927	(\$1,458,797)	(\$1,662,261)	2.59%	(\$3,588)	(\$1,462,385)
(13)	Jan-19	(\$1,462,385)	\$434,106	\$5,643	\$428,463	(\$1,033,922)	(\$1,248,154)	2.84%	(\$2,954)	(\$1,036,876)
(14)	Feb-19	(\$1,036,876)	\$412,891	\$5,368	\$407,523	(\$629,353)	(\$833,115)	2.77%	(\$1,923)	(\$631,276)
(15)	Mar-19	(\$631,276)	\$402,455	\$5,232	\$397,223	(\$234,053)	(\$432,665)	2.71%	(\$977)	(\$235,030)
(16)	Apr-19	(\$235,030)	\$218,885	\$2,846	\$216,039	(\$18,991)	(\$127,011)	2.73%	(\$289)	(\$19,280)

- (a) previous month Column (h); beginning balance per Docket No. 4805 Annual Rate Filing, filed February 2018, Schedule ASC-18, page 1, Line (2)
- (b) per Company records
- (c) Column (b) x uncollectible percentage (1.25% through Aug 2018; 1.30% thereafter)
- (d) Column (b) - Column (c)
- (e) Column (a) + Column (d)
- (f) [Column (a) + Column (d)] ÷ 2
- (g) Money Pool interest rate
- (h) Column (f) x (Column (g) ÷ 12)
- (i) Column (e) + Column (h)

Section 2. Calculation of LTC Reconciliation Factor Revenue

Mo/Yr	kWh Deliveries (i)	LTC Reconciliation Factor (j)	LTC Reconciliation Factor Rev (k)	
(1)	Apr-18	233,785,155	\$0.00068	\$158,974
(2)	May-18	553,378,380	\$0.00068	\$376,297
(3)	Jun-18	570,565,358	\$0.00068	\$387,984
(4)	Jul-18	703,908,391	\$0.00068	\$478,658
(5)	Aug-18	764,931,288	\$0.00068	\$520,153
(6)	Sep-18	773,329,257	\$0.00068	\$525,864
(7)	Oct-18	581,860,772	\$0.00068	\$395,665
(8)	Nov-18	538,841,231	\$0.00068	\$366,412
(9)	Dec-18	606,304,493	\$0.00068	\$412,287
(10)	Jan-19	638,390,517	\$0.00068	\$434,106
(11)	Feb-19	607,192,348	\$0.00068	\$412,891
(12)	Mar-19	591,845,970	\$0.00068	\$402,455
(13)	Apr-19	321,889,055	\$0.00068	\$218,885

- (i) per Company revenue reports
- (j) Reconciliation Factor in effect April 1, 2018 through March 31, 2019, per RIPUC Docket 4805, Schedule ASC-18, Page 1, Line (8)
- (k) Column (i) x Column (j)

The Narragansett Electric Company
Long-Term Contracting For Renewable Energy Reconciliation
For the Period January 1, 2019 through December 31, 2019

Status of Prior Period Over(Under) Recovery

Section 1

Incurred: January 1, 2018 through December 31, 2018
Recovery Period: April 1, 2019 through March 31, 2020

		Beginning Balance (a)	Adjustment Factor Charge/(Credit) (b)	Uncollectible Expenses (c)	Net Recovery (d)	Over(Under) Recovery (e)	Interest Balance (f)	Interest Rate (g)	Interest (h)	Ending Balance (i)
(1)	Jan-19	(\$4,415,844)	\$0	\$0	\$0	(\$4,415,844)	(\$4,415,844)	2.84%	(\$10,451)	(\$4,426,295)
(2)	Feb-19	(\$4,426,295)	\$0	\$0	\$0	(\$4,426,295)	(\$4,426,295)	2.77%	(\$10,217)	(\$4,436,512)
(3)	Mar-19	(\$4,436,512)	\$0	\$0	\$0	(\$4,436,512)	(\$4,436,512)	2.71%	(\$10,019)	(\$4,446,531)
(4)	Apr-19	(\$4,446,531)	\$142,530	\$1,853	\$140,677	(\$4,305,854)	(\$4,376,193)	2.73%	(\$9,956)	(\$4,315,810)
(5)	May-19	(\$4,315,810)	\$330,148	\$4,292	\$325,856	(\$3,989,954)	(\$4,152,882)	2.70%	(\$9,344)	(\$3,999,298)
(6)	Jun-19	(\$3,999,298)	\$339,421	\$4,412	\$335,009	(\$3,664,289)	(\$3,831,794)	2.67%	(\$8,526)	(\$3,672,815)
(7)	Jul-19	(\$3,672,815)	\$422,332	\$5,490	\$416,842	(\$3,255,973)	(\$3,464,394)	2.58%	(\$7,448)	(\$3,263,421)
(8)	Aug-19	(\$3,263,421)	\$499,469	\$6,493	\$492,976	(\$2,770,445)	(\$3,016,933)	2.50%	(\$6,285)	(\$2,776,730)
(9)	Sep-19	(\$2,776,730)	\$412,530	\$5,363	\$407,167	(\$2,369,563)	(\$2,573,147)	2.34%	(\$5,018)	(\$2,374,581)
(10)	Oct-19	(\$2,374,581)	\$330,537	\$4,297	\$326,240	(\$2,048,341)	(\$2,211,461)	2.28%	(\$4,202)	(\$2,052,543)
(11)	Nov-19	(\$2,052,543)	\$322,425	\$4,192	\$318,233	(\$1,734,310)	(\$1,893,427)	2.19%	(\$3,456)	(\$1,737,766)
(12)	Dec-19	(\$1,737,766)	\$360,803	\$4,690	\$356,113	(\$1,381,653)	(\$1,559,710)	2.11%	(\$2,742)	(\$1,384,395)
(13)	Jan-20	(\$1,384,395)	\$342,485	\$4,452	\$338,033	(\$1,046,362)	(\$1,215,379)	2.11%	(\$2,137)	(\$1,048,499)
(14)	Feb-20	(\$1,048,499)	\$0	\$0	\$0	(\$1,048,499)	(\$1,048,499)	2.11%	(\$1,844)	(\$1,050,343)
(15)	Mar-20	(\$1,050,343)	\$0	\$0	\$0	(\$1,050,343)	(\$1,050,343)	2.11%	(\$1,847)	(\$1,052,190)
(16)	Apr-20	(\$1,052,190)	\$0	\$0	\$0	(\$1,052,190)	(\$1,052,190)	2.11%	(\$1,850)	(\$1,054,040)

- (a) previous month Column (h); beginning balance per Docket No. 4930 Annual Rate Filing, filed February 2019, Schedule REP-18, page 1, Line (2)
- (b) per Company records
- (c) Column (b) x uncollectible percentage (1.30%)
- (d) Column (b) - Column (c)
- (e) Column (a) + Column (d)
- (f) [Column (a) + Column (d)] ÷ 2
- (g) Money Pool interest rate
- (h) Column (f) x (Column (g) ÷ 12)
- (i) Column (e) + Column (h)

Section 2. Calculation of LTC Reconciliation Factor Revenue

Mo/Yr	kWh Deliveries (i)	LTC Reconciliation Factor (j)	LTC Reconciliation Factor Rev (k)	
(1)	Apr-19	229,887,314	\$0.00062	\$142,530
(2)	May-19	532,497,283	\$0.00062	\$330,148
(3)	Jun-19	547,453,610	\$0.00062	\$339,421
(4)	Jul-19	681,180,510	\$0.00062	\$422,332
(5)	Aug-19	805,595,151	\$0.00062	\$499,469
(6)	Sep-19	665,371,727	\$0.00062	\$412,530
(7)	Oct-19	533,123,918	\$0.00062	\$330,537
(8)	Nov-19	520,040,516	\$0.00062	\$322,425
(9)	Dec-19	581,940,800	\$0.00062	\$360,803
(10)	Jan-20	552,395,633	\$0.00062	\$342,485
(11)	Feb-20	-	\$0.00062	\$0
(12)	Mar-20	-	\$0.00062	\$0
(13)	Apr-20	-	\$0.00062	\$0

- (i) per Company revenue reports
- (j) Reconciliation Factor in effect April 1, 2019 through March 31, 2020 per RIPUC Docket 4930, Schedule REP-18, Page 1, Line (8)
- (k) Column (i) x Column (j)

REVISED

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 5005
2020 REVISED ANNUAL RETAIL RATE FILING
WITNESS: ROBIN E. PIERI
SCHEDULES**

Schedule REP-19 Revised

Typical Bill Analysis

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Monthly kWh (a)	Rates Effective January 1, 2020			Proposed Rates effective April 1, 2020			Increase (Decrease) % of Total Bill			Percentage of Customers (r)			
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e) = (b) + (c) + (d)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m) = (j) + (k) + (l)	Delivery Services (n) = (j) / (e)		Supply Services (o) = (k) / (e)	GET (p) = (l) / (e)	Total (q) = (m) / (e)
150	\$23.65	\$16.44	\$1.67	\$41.76	\$24.37	\$16.32	\$1.70	\$42.39	\$0.72	(\$0.12)	\$0.03	\$0.63	1.5%
300	\$38.60	\$32.87	\$2.98	\$74.45	\$40.05	\$32.65	\$3.03	\$75.73	\$1.45	(\$0.22)	\$0.05	\$1.28	1.7%
400	\$48.57	\$43.83	\$3.85	\$96.25	\$50.50	\$43.53	\$3.92	\$97.95	\$1.93	(\$0.30)	\$0.07	\$1.70	1.8%
500	\$58.54	\$54.79	\$4.72	\$118.05	\$60.95	\$54.42	\$4.81	\$120.18	\$2.41	(\$0.37)	\$0.09	\$2.13	1.8%
600	\$68.50	\$65.74	\$5.59	\$139.83	\$71.39	\$65.30	\$5.70	\$142.39	\$2.89	(\$0.44)	\$0.11	\$2.56	1.8%
700	\$78.47	\$76.70	\$6.47	\$161.64	\$81.84	\$76.18	\$6.58	\$164.60	\$3.37	(\$0.52)	\$0.11	\$2.96	1.8%
1,200	\$128.30	\$131.48	\$10.82	\$270.60	\$134.09	\$130.60	\$11.03	\$275.72	\$5.79	(\$0.88)	\$0.21	\$5.12	1.9%
2,000	\$208.04	\$219.14	\$17.80	\$444.98	\$217.68	\$217.66	\$18.14	\$453.48	\$9.64	(\$1.48)	\$0.34	\$8.50	1.9%

Rates Effective January 1, 2020

Proposed Rates effective April 1, 2020

Line Item on Bill

(1) Distribution Customer Charge	(s)	\$6.00	(t)	\$6.00	Customer Charge
(2) LIHEAP Enhancement Charge		\$0.80		\$0.80	LIHEAP Enhancement Charge
(3) Renewable Energy Growth Program Charge		\$1.90		\$1.90	RE Growth Program
(4) Distribution Charge (per kWh)		\$0.0496		\$0.0496	
(5) Operating & Maintenance Expense Charge		\$0.00204		\$0.00204	
(6) Operating & Maintenance Expense Reconciliation Factor		(\$0.00008)		(\$0.00008)	
(7) CapEx Factor Charge		\$0.00116		\$0.00116	
(8) CapEx Reconciliation Factor		(\$0.00071)		(\$0.00071)	
(9) Revenue Decoupling Adjustment Factor		(\$0.00061)		(\$0.00061)	Distribution Energy Charge
(10) Pension Adjustment Factor		(\$0.00005)		(\$0.00005)	
(11) Storm Fund Replenishment Factor		\$0.00288		\$0.00288	
(12) Average Management Adjustment Factor		\$0.00010		\$0.00010	
(13) Low Income Discount Recovery Factor		\$0.00152		\$0.00152	
(14) Long-term Contracting for Renewable Energy Charge		\$0.00543		\$0.00704	Renewable Energy Distribution Charge
(15) Net Metering Charge		(\$0.00068)		(\$0.00266)	
(16) Base Transmission Charge		\$0.03034		\$0.03096	
(17) Transmission Adjustment Factor		(\$0.00217)		(\$0.00189)	Transmission Charge
(18) Transmission Uncollectible Factor		\$0.00037		\$0.00038	
(19) Base Transition Charge		(\$0.00093)		(\$0.00074)	
(20) Transition Adjustment		(\$0.00021)		(\$0.00008)	Transition Charge
(21) Energy Efficiency Program Charge		\$0.01353		\$0.01353	Energy Efficiency Programs
(22) Standard Offer Service Base Charge		\$0.10884		\$0.10884	
(23) SOS Adjustment Factor		(\$0.00223)		(\$0.00294)	
(24) SOS Administrative Cost Adjustment Factor		\$0.00233		\$0.00230	Supply Services Energy Charge
(25) Renewable Energy Standard Charge		\$0.00063		\$0.00063	

Line Item on Bill	Customer Charge	LIHEAP Enhancement Charge	RE Growth Program	Distribution Energy Charge	Transmission Charge	Transition Charge	Energy Efficiency Programs	Supply Services Energy Charge
(26) Customer Charge	\$6.00							
(27) LIHEAP Enhancement Charge	\$0.80							
(28) RE Growth Program	\$1.90							
(29) Transmission Charge					\$0.02854			
(30) Distribution Energy Charge					\$0.05263			
(31) Transition Charge					(\$0.00114)			
(32) Energy Efficiency Programs					\$0.01353			
(33) Renewable Energy Distribution Charge					\$0.00611			
(34) Supply Services Energy Charge								\$0.10957

Column (s): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2020
 Column (t): Lines (14) through (20) and (23) through (24) per REP-19 Revised

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly KWh	Rates Effective January 1, 2020				Proposed Rates effective April 1, 2020				\$ Increase (Decrease) % of Total Bill				Percentage of Customers			
	Delivery Services (b)	Supply Services (c)	Low Income Discount (d) = [(b)+(c)] x .25	Total (e) = (b) + (c) + (d)	Delivery Services (h)	Supply Services (i)	Low Income Discount (j) = [(h)+(i)] x .25	Total (k) = (h) + (i) + (j)	Delivery Services (l) = (b)+(i)-(j)	Supply Services (m) = (c)-(i)-(j)	GET (n) = (k) + (l)	Total (o) = (l)+(i)+(j) + (o)		GET (p) = (n) - (l)	Total (q) = (o) + (p)	Increase (Decrease) % of Total Bill (r) = (o) ÷ [(b)+(i)] - (s) = (o) ÷ (c) - (p) ÷ (n) - (r)
150	\$21.42	\$16.44	(\$9.47)	\$28.39	\$22.15	\$16.32	(\$9.62)	\$28.85	\$0.58	(\$0.12)	\$1.20	\$30.05	\$0.48	0.1%	1.6%	32.1%
300	\$36.15	\$32.87	(\$17.26)	\$51.76	\$37.59	\$32.65	(\$17.56)	\$52.68	\$1.14	(\$0.22)	\$2.20	\$54.48	\$0.96	2.1%	1.8%	15.4%
400	\$45.96	\$43.83	(\$22.45)	\$67.34	\$47.89	\$43.53	(\$22.86)	\$68.56	\$1.52	(\$0.30)	\$2.86	\$71.42	\$1.27	2.2%	1.8%	12.5%
500	\$55.78	\$54.79	(\$27.64)	\$82.93	\$58.19	\$54.42	(\$28.15)	\$84.46	\$1.90	(\$0.37)	\$3.52	\$87.98	\$1.59	2.2%	1.8%	9.6%
600	\$65.59	\$65.74	(\$32.83)	\$98.50	\$68.48	\$65.30	(\$33.45)	\$100.33	\$2.27	(\$0.44)	\$4.18	\$104.51	\$1.91	2.2%	1.9%	7.2%
700	\$75.41	\$76.70	(\$38.03)	\$114.08	\$78.78	\$76.18	(\$38.74)	\$116.22	\$2.66	(\$0.52)	\$4.84	\$121.06	\$2.23	2.2%	1.9%	16.4%
1,200	\$124.48	\$131.48	(\$63.99)	\$191.97	\$130.26	\$130.60	(\$65.22)	\$195.64	\$4.55	(\$0.88)	\$8.15	\$203.79	\$3.82	2.3%	1.9%	5.2%
2,000	\$203.00	\$219.14	(\$105.54)	\$316.60	\$212.64	\$217.66	(\$107.58)	\$322.72	\$7.60	(\$1.48)	\$13.45	\$336.17	\$6.38	2.3%	1.9%	1.6%

Rates Effective January 1, 2020

	(w)
(1) Distribution Customer Charge	\$4.00
(2) LIHEAP Enhancement Charge	\$0.80
(3) Renewable Energy Growth Program Charge	\$1.90
(4) Distribution Charge (per kWh)	\$0.04456
(5) Operating & Maintenance Expense Charge	\$0.00204
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00008)
(7) CapEx Factor Charge	\$0.00116
(8) CapEx Reconciliation Factor	\$0.00071
(9) Revenue Decoupling Adjustment Factor	(\$0.00061)
(10) Pension Adjustment Factor	(\$0.00065)
(11) Storm Fund Replenishment Factor	\$0.00288
(12) Arrearage Management Adjustment Factor	\$0.00010
(13) Low Income Discount Recovery Factor	\$0.00000
(14) Long-term Contracting for Renewable Energy Charge	\$0.00543
(15) Net Metering Charge	\$0.00068
(16) Base Transmission Charge	\$0.03034
(17) Transmission Adjustment Factor	(\$0.00217)
(18) Transmission Uncollectible Factor	\$0.00037
(19) Base Transition Charge	(\$0.00093)
(20) Transition Adjustment	(\$0.00021)
(21) Energy Efficiency Program Charge	\$0.01353
(22) Standard Offer Service Base Charge	\$0.10884
(23) SOS Adjustment Factor	(\$0.00223)
(24) SOS Administrative Cost Adjustment Factor	\$0.00233
(25) Renewable Energy Standard Charge	\$0.00063

Line Item on Bill	(x)
Customer Charge	\$4.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$1.90
Distribution Energy Charge	\$0.02945
Transition Charge	\$0.05111
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.00970
Discount Percentage	25%

Proposed Rates effective April 1, 2020

	(x)
Customer Charge	\$4.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$1.90
Distribution Energy Charge	\$0.02945
Transition Charge	\$0.05111
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.00970

Line Item on Bill	(y)
Customer Charge	\$4.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$1.90
Distribution Energy Charge	\$0.02945
Transition Charge	\$0.05111
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.00970
Discount Percentage	25%

Column (w): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2020
Column (x): Lines (14) through (20) and (23) through (24) per REP-19 Revised

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly KWh	Rates Effective January 1, 2020				Proposed Rates effective April 1, 2020				\$ Increase (Decrease) % of Total Bill				Percentage of Customers	
	Delivery Services (b)	Supply Services (c)	Low Income Discount (d) = [(b)+(c) x .30]	Total (e) = (b) + (c) + (d)	Delivery Services (h)	Supply Services (i)	Low Income Discount (j) = [(h)+(i) x .30]	Total (k) = (h) + (i) + (j)	Delivery Services (l) = (h)+(i)-(j)	Supply Services (m) = (i)-(j)-(n)	GET (o) = (l)-(m)	Total (p) = (l) + (m) + (o)		Increase (Decrease) (q) = (p)-(r)
150	\$21.42	\$16.44	(\$11.36)	\$26.50	\$22.15	\$16.32	(\$11.54)	\$26.93	\$0.55	(\$0.12)	\$0.02	\$0.45	2.0%	1.6%
300	\$36.15	\$32.87	(\$20.71)	\$48.31	\$37.59	\$32.65	(\$21.07)	\$49.17	\$1.08	(\$0.22)	\$0.04	\$0.90	2.1%	1.8%
400	\$45.96	\$43.83	(\$26.94)	\$62.85	\$47.89	\$43.53	(\$27.43)	\$63.99	\$1.44	(\$0.30)	\$0.05	\$1.19	2.2%	1.8%
500	\$55.78	\$54.79	(\$33.17)	\$77.40	\$58.19	\$54.42	(\$33.78)	\$78.83	\$1.80	(\$0.37)	\$0.05	\$1.48	2.2%	1.8%
600	\$65.59	\$65.74	(\$39.40)	\$91.93	\$68.48	\$65.30	(\$40.13)	\$93.65	\$2.16	(\$0.44)	\$0.07	\$1.79	2.3%	1.9%
700	\$75.41	\$76.70	(\$45.63)	\$106.48	\$78.78	\$76.18	(\$46.49)	\$108.47	\$2.51	(\$0.52)	\$0.08	\$2.07	2.3%	1.9%
1,200	\$124.48	\$131.48	(\$76.79)	\$179.17	\$130.26	\$130.60	(\$78.26)	\$182.60	\$4.31	(\$0.88)	\$0.14	\$3.57	2.3%	1.9%
2,000	\$203.00	\$219.14	(\$126.64)	\$295.50	\$212.64	\$217.66	(\$129.09)	\$301.21	\$7.19	(\$1.48)	\$0.24	\$5.95	2.3%	1.9%

Rates Effective January 1, 2020

	(w)
(1) Distribution Customer Charge	\$4.00
(2) LIHEAP Enhancement Charge	\$0.80
(3) Renewable Energy Growth Program Charge	\$1.90
(4) Distribution Charge (per kWh)	\$0.04456
(5) Operating & Maintenance Expense Charge	\$0.00204
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00008)
(7) CapEx Factor Charge	\$0.00116
(8) CapEx Reconciliation Factor	\$0.00071
(9) Revenue Decoupling Adjustment Factor	(\$0.00061)
(10) Pension Adjustment Factor	(\$0.00065)
(11) Storm Fund Replenishment Factor	\$0.00288
(12) Arrearage Management Adjustment Factor	\$0.00010
(13) Low Income Discount Recovery Factor	\$0.00000
(14) Long-term Contracting for Renewable Energy Charge	\$0.00543
(15) Net Metering Charge	\$0.00068
(16) Base Transmission Charge	\$0.03034
(17) Transmission Adjustment Factor	(\$0.00217)
(18) Transmission Uncollectible Factor	\$0.00037
(19) Base Transition Charge	(\$0.00093)
(20) Transition Adjustment	(\$0.00021)
(21) Energy Efficiency Program Charge	\$0.01353
(22) Standard Offer Service Base Charge	\$0.10884
(23) SOS Adjustment Factor	(\$0.00223)
(24) SOS Administrative Cos. Adjustment Factor	\$0.00233
(25) Renewable Energy Standard Charge	\$0.00063

Line Item on Bill	(x)
Customer Charge	\$4.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$1.90
Distribution Energy Charge	\$0.04456
Renewable Energy Distribution Charge	\$0.00543
Transmission Charge	(\$0.00189)
Transition Charge	(\$0.00074)
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.10884
Discount	30%

Proposed Rates effective April 1, 2020

	(x)
Customer Charge	\$4.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$1.90
Distribution Energy Charge	\$0.04456
Renewable Energy Distribution Charge	\$0.00543
Transmission Charge	(\$0.00189)
Transition Charge	(\$0.00074)
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.10884
Discount	30%

Line Item on Bill	(y)
Customer Charge	\$4.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$1.90
Distribution Energy Charge	\$0.04456
Renewable Energy Distribution Charge	\$0.00543
Transmission Charge	(\$0.00189)
Transition Charge	(\$0.00074)
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.10884
Discount	30%

Column (w): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2020
Column (x): Lines (14) through (20) and (23) through (24) per REP-1 Revised

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to C-06 Rate Customers

Monthly kWh (a)	Rates Effective January 1, 2020			Proposed Rates effective April 1, 2020			\$ Increase (Decrease)			Increase (Decrease) % of Total Bill			Percentage of Customers (n)	
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)		
250	\$37.52	\$25.62	\$2.63	\$65.77	\$38.94	\$25.49	\$2.68	\$67.11	\$1.42	(\$0.13)	\$0.05	\$1.34	2.0%	56.3%
500	\$61.29	\$51.24	\$4.69	\$117.22	\$64.13	\$50.98	\$4.80	\$119.91	\$2.84	(\$0.26)	\$0.11	\$2.69	2.3%	16.9%
1,000	\$108.82	\$102.48	\$8.80	\$220.10	\$114.50	\$101.95	\$9.02	\$223.47	\$5.68	(\$0.53)	\$0.22	\$5.37	2.4%	8.1%
1,500	\$156.36	\$153.72	\$12.92	\$323.00	\$164.88	\$152.93	\$13.24	\$331.05	\$8.52	(\$0.79)	\$0.32	\$8.05	2.5%	5.0%
2,000	\$203.89	\$204.96	\$17.04	\$425.89	\$215.25	\$203.90	\$17.46	\$436.61	\$11.36	(\$1.06)	\$0.42	\$10.72	2.5%	13.6%

Rates Effective January 1, 2020

Line Item on Bill	(o)
(1) Distribution Customer Charge	\$10.00
(2) LIHEAP Enhancement Charge	\$0.80
(3) Renewable Energy Growth Program Charge	\$2.95
(4) Distribution Charge (per kWh)	\$0.04400
(5) Operating & Maintenance Expense Charge	\$0.00209
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00008)
(7) CapEx Factor Charge	\$0.00101
(8) CapEx Reconciliation Factor	\$0.00074
(9) Revenue Decoupling Adjustment Factor	(\$0.00061)
(10) Pension Adjustment Factor	(\$0.00005)
(11) Storm Fund Replenishment Factor	\$0.00288
(12) Arrearage Management Adjustment Factor	\$0.00010
(13) Low Income Discount Recovery Factor	\$0.00152
(14) Long-term Contracting for Renewable Energy Charge	\$0.00543
(15) Net Metering Charge	\$0.00068
(16) Base Transmission Charge	\$0.03047
(17) Transmission Adjustment Factor	(\$0.00582)
(18) Transmission Uncollectible Factor	\$0.00032
(19) Base Transition Charge	(\$0.00093)
(20) Transition Adjustment	(\$0.00021)
(21) Energy Efficiency Program Charge	\$0.01353
(22) Standard Offer Service Base Charge	\$0.09814
(23) SOS Adjustment Factor	\$0.00154
(24) SOS Administrative Cost Adjustment Factor	\$0.00217
(25) Renewable Energy Standard Charge	\$0.00063

Proposed Rates effective April 1, 2020

Line Item on Bill	(p)
Customer Charge	\$10.00
LIHEAP Enhancement Charge	\$0.80
RE Growth Program	\$2.95
Distribution Energy Charge	\$0.04400
Renewable Energy Distribution Charge	\$0.00704
Transmission Charge	\$0.03110
Transition Charge	(\$0.00467)
Energy Efficiency Programs	\$0.01353
Supply Services Energy Charge	\$0.00994
Supply Services Energy Charge	\$0.00224
Supply Services Energy Charge	\$0.00063

Line Item on Bill

(26) Customer Charge	\$10.00
(27) LIHEAP Enhancement Charge	\$0.80
(28) RE Growth Program	\$2.95
(29) Transmission Charge	\$0.02497
(30) Distribution Energy Charge	\$0.05160
(31) Transition Charge	(\$0.00114)
(32) Energy Efficiency Programs	\$0.01353
(33) Renewable Energy Distribution Charge	\$0.00611
(34) Supply Services Energy Charge	\$0.10195

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2020
Column (p): Lines (14) through (20) and (23) through (24) per REP-19 Revised

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G+2 Rate Customers

kW	Monthly Power Hours Use	Rates Effective January 1, 2020				Proposed Rates effective April 1, 2020				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill			
		Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	Delivery Services (n)	Supply Services (o)	GET (p)	Total (q)
20	200	\$475.63	\$409.92	\$56.90	\$922.45	\$496.99	\$407.80	\$37.70	\$942.49	\$21.36	(\$2.12)	\$0.80	\$20.04	2.3%	-0.2%	0.1%	2.2%
50	200	\$1,033.75	\$1,024.80	\$85.77	\$2,144.32	\$1,087.15	\$1,019.50	\$87.78	\$2,194.43	\$53.40	(\$5.30)	\$2.01	\$50.11	2.5%	-0.2%	0.1%	2.3%
100	200	\$1,963.95	\$2,049.60	\$167.23	\$4,180.78	\$2,070.75	\$2,039.00	\$171.24	\$4,280.99	\$106.80	(\$10.60)	\$4.01	\$100.21	2.6%	-0.3%	0.1%	2.4%
150	200	\$2,894.15	\$3,074.40	\$248.69	\$6,217.24	\$3,054.35	\$3,068.50	\$254.70	\$6,367.55	\$160.20	(\$15.90)	\$6.01	\$150.31	2.6%	-0.3%	0.1%	2.4%
20	300	\$547.77	\$614.88	\$484.44	\$1,211.09	\$579.81	\$611.70	\$49.65	\$1,241.16	\$32.04	(\$3.18)	\$1.21	\$30.07	2.6%	-0.3%	0.1%	2.5%
50	300	\$1,214.10	\$1,537.20	\$114.64	\$2,865.94	\$1,294.20	\$1,529.25	\$117.64	\$2,941.09	\$80.10	(\$7.95)	\$3.00	\$75.15	2.8%	-0.3%	0.1%	2.6%
100	300	\$2,324.65	\$3,074.40	\$224.96	\$5,624.01	\$2,484.85	\$3,068.50	\$230.97	\$5,774.32	\$160.20	(\$15.90)	\$6.01	\$150.31	2.8%	-0.3%	0.1%	2.7%
150	300	\$3,435.20	\$4,611.60	\$335.28	\$8,382.08	\$3,675.50	\$4,487.75	\$344.30	\$8,507.55	\$240.30	(\$23.85)	\$9.02	\$225.47	2.9%	-0.3%	0.1%	2.7%
20	400	\$619.91	\$819.84	\$593.99	\$1,493.74	\$662.63	\$815.60	\$61.59	\$1,539.82	\$42.72	(\$4.24)	\$1.60	\$40.08	2.8%	-0.3%	0.1%	2.7%
50	400	\$1,394.45	\$2,049.60	\$143.50	\$3,587.55	\$1,501.25	\$2,039.00	\$147.51	\$3,687.76	\$106.80	(\$10.60)	\$4.01	\$100.21	3.0%	-0.3%	0.1%	2.8%
100	400	\$2,685.35	\$4,099.20	\$282.69	\$7,067.24	\$2,898.95	\$4,078.00	\$290.71	\$7,267.66	\$213.60	(\$21.20)	\$8.02	\$200.42	3.0%	-0.3%	0.1%	2.8%
150	400	\$3,976.25	\$6,148.80	\$421.88	\$10,546.93	\$4,296.65	\$6,117.00	\$433.90	\$10,547.55	\$320.40	(\$31.80)	\$12.02	\$300.62	3.0%	-0.3%	0.1%	2.9%
20	500	\$692.05	\$1,024.80	\$71.54	\$1,788.39	\$745.45	\$1,019.50	\$73.54	\$1,838.49	\$53.40	(\$5.30)	\$2.00	\$50.10	3.0%	-0.3%	0.1%	2.8%
50	500	\$1,574.80	\$2,562.00	\$173.37	\$4,309.17	\$1,708.30	\$2,548.75	\$177.38	\$4,434.43	\$133.50	(\$13.25)	\$5.01	\$125.26	3.1%	-0.3%	0.1%	2.9%
100	500	\$3,046.05	\$5,124.00	\$340.42	\$8,510.47	\$3,313.05	\$5,097.50	\$350.44	\$8,760.99	\$267.00	(\$26.50)	\$10.02	\$250.52	3.1%	-0.3%	0.1%	2.9%
150	500	\$4,517.30	\$7,686.00	\$508.47	\$12,711.77	\$4,917.80	\$7,646.25	\$233.50	\$13,087.55	\$400.50	(\$39.75)	\$15.03	\$375.78	3.2%	-0.3%	0.1%	3.0%
20	600	\$764.19	\$1,229.76	\$83.08	\$2,077.03	\$828.27	\$1,223.40	\$85.49	\$2,137.16	\$64.08	(\$6.36)	\$2.41	\$60.13	3.1%	-0.3%	0.1%	2.9%
50	600	\$1,755.15	\$3,074.40	\$201.23	\$5,030.78	\$1,915.35	\$3,068.50	\$207.24	\$5,181.09	\$160.20	(\$15.90)	\$6.01	\$150.31	3.2%	-0.3%	0.1%	3.0%
100	600	\$3,406.75	\$6,148.80	\$398.15	\$9,953.70	\$3,727.15	\$6,117.00	\$410.17	\$10,254.32	\$320.40	(\$31.80)	\$12.02	\$300.62	3.2%	-0.3%	0.1%	3.0%
150	600	\$5,058.35	\$9,223.20	\$595.06	\$14,876.61	\$5,538.95	\$9,175.50	\$613.10	\$15,327.55	\$480.60	(\$47.70)	\$18.04	\$450.94	3.2%	-0.3%	0.1%	3.0%

Rates Effective January 1, 2020 (o)

Proposed Rates effective April 1, 2020 (p)

Line Item on Bill	Amount	Line Item on Bill	Amount
(1) Distribution Customer Charge	\$145.00	Customer Charge	\$145.00
(2) LIHEAP Enhancement Charge	\$0.80	LIHEAP Enhancement Charge	\$0.80
(3) Renewable Energy Growth Program Charge	\$27.95	RE Growth Program	\$27.95
(4) Base Distribution Demand Charge (per kW > 10kW)	\$675	Distribution Demand Charge	\$675
(5) CapEx Factor Demand Charge (per kW > 10kW)	\$0.27		\$0.27
(6) Distribution Charge (per kWh)	\$0.00465		\$0.00465
(7) Operating & Maintenance Expense Charge	\$0.00156		\$0.00156
(8) Operating & Maintenance Expense Reconciliation Factor	(\$0.00008)		(\$0.00008)
(9) CapEx Reconciliation Factor	\$0.00058		\$0.00058
(10) Revenue Decoupling Adjustment Factor	(\$0.00061)		(\$0.00061)
(11) Pension Adjustment Factor	(\$0.00005)		(\$0.00005)
(12) Storm Fund Replenishment Factor	\$0.00288		\$0.00288
(13) Average Management Adjustment Factor	\$0.00010		\$0.00010
(14) Low Income Discount Recovery Factor	\$0.00012		\$0.00012
(15) Long-term Contracting for Renewable Energy Charge	\$0.00054	Renewable Energy Distribution Charge	\$0.00074
(16) Net Metering Charge	\$0.00068	Transmission Demand Charge	\$0.00256
(17) Transmission Demand Charge	\$4.37		\$4.37
(18) Base Transmission Charge	\$0.01154		\$0.01214
(19) Transmission Adjustment Factor	(\$0.00481)		(\$0.00399)
(20) Transmission Uncollectible Factor	\$0.00029	Transmission Adjustment	\$0.00010
(21) Base Transition Charge	(\$0.00093)	Transition Charge	(\$0.00074)
(22) Transition Adjustment	(\$0.00021)	Energy Efficiency Programs	(\$0.00008)
(23) Energy Efficiency Program Charge	\$0.01353		\$0.01353
(24) Standard Offer Service Base Charge	\$0.09814		\$0.09814
(25) SOS Adjustment Factor	\$0.00154		\$0.00094
(26) SOS Administrative Cost Adjustment Factor	\$0.00217	Supply Services Energy Charge	\$0.00224
(27) Renewable Energy Standard Charge	\$0.00063		\$0.00063

Line Item on Bill	Amount
(28) Customer Charge	\$145.00
(30) LIHEAP Enhancement Charge	\$0.80
(29) RE Growth Program	\$27.95
(31) Transmission Adjustment	\$0.00072
(32) Distribution Energy Charge	\$0.01055
(33) Distribution Demand Charge	\$7.02
(34) Transmission Demand Charge	\$4.37
(33) Energy Efficiency Programs	(\$0.00014)
(34) Energy Efficiency Programs	\$0.01353
(35) Renewable Energy Distribution Charge	\$0.00611
(36) Supply Services Energy Charge	\$0.10195

Column (o) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2005 effective 1/1/2020, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2006, effective 1/1/2020
Column (p): Lines (15) through (23) and (25) through (26) per REP-19 Revised

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 5005
2020 Annual Retail Rate Filing
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The Narragansett Electric Company
Calculation of Monthly Typical Bill
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kW	Monthly Power Hours Use	Rates Effective January 1, 2020			Proposed Rates Effective April 1, 2020			\$ Increase (Decrease)			Increase (Decrease) % of Cost/Bill								
		Delivery Services	Supply Services	Total	Delivery Services	Supply Services	Total	Delivery Services	Supply Services	Total	Delivery Services	Supply Services	Total						
200	200	4000000	\$3,706,691	\$4,623,600	\$8,330,291	\$1,274.00	\$8,677.41	\$1,403.41	\$4,702,000	\$861.52	\$6,088.03	\$267.60	\$78.40	\$14.42	\$3,600.42	0.2%	0.2%	4.2%	
750	200	1500000	\$12,238.41	\$17,338.50	\$29,576.91	\$1,850.95	\$14,241.91	\$16,032.50	\$17,632.50	\$1,238.10	\$33,202.51	\$1,003.50	\$294.00	\$1,318.00	\$294.00	\$1,318.00	0.2%	0.2%	4.3%
1000	200	2000000	\$17,579.91	\$23,118.00	\$40,697.91	\$2,318.00	\$18,908.91	\$20,826.91	\$23,510.00	\$1,767.45	\$44,186.36	\$1,338.00	\$392.00	\$1,730.00	\$1,730.00	\$1,730.00	0.2%	0.2%	4.3%
1500	200	3000000	\$26,235.91	\$34,677.00	\$60,912.91	\$3,467.00	\$28,584.00	\$30,051.00	\$33,205.00	\$2,646.16	\$66,150.16	\$2,007.00	\$588.00	\$2,595.00	\$2,595.00	\$2,595.00	0.2%	0.2%	4.3%
2500	200	5000000	\$42,565.91	\$57,795.00	\$100,360.91	\$5,884.28	\$46,910.91	\$52,795.19	\$58,775.00	\$4,403.58	\$110,089.49	\$3,345.00	\$980.00	\$4,325.00	\$4,325.00	\$4,325.00	0.2%	0.2%	4.3%
3000	200	6000000	\$50,889.91	\$68,887.00	\$119,776.91	\$7,007.00	\$55,880.91	\$62,887.91	\$69,887.00	\$5,100.00	\$135,000.00	\$3,900.00	\$1,100.00	\$5,000.00	\$5,000.00	\$5,000.00	0.2%	0.2%	4.3%
4000	200	8000000	\$67,549.91	\$90,487.00	\$158,036.91	\$9,367.00	\$74,880.91	\$84,247.91	\$92,487.00	\$6,740.00	\$189,227.00	\$5,052.00	\$1,400.00	\$6,452.00	\$6,452.00	\$6,452.00	0.2%	0.2%	4.3%
20000	200	20000000	\$346,849.91	\$462,360.00	\$809,209.91	\$37,167.12	\$482,917.02	\$520,084.14	\$570,200.00	\$35,182.21	\$878,992.23	\$1,380.00	\$320.00	\$1,700.00	\$1,700.00	\$1,700.00	0.2%	0.2%	4.3%
750	300	2250000	\$4,446.91	\$6,935.40	\$11,382.31	\$1,865.67	\$11,865.67	\$13,731.34	\$15,000.00	\$1,268.66	\$28,731.34	\$1,160.00	\$117.60	\$1,277.60	\$1,277.60	\$1,277.60	0.2%	0.2%	4.6%
1000	300	3000000	\$10,131.41	\$16,007.75	\$26,139.16	\$4,372.04	\$17,318.66	\$21,690.70	\$23,648.75	\$1,831.98	\$45,799.39	\$1,505.25	\$441.00	\$1,946.25	\$1,946.25	\$1,946.25	0.2%	0.2%	4.6%
1500	300	4500000	\$17,789.91	\$27,015.00	\$44,804.91	\$7,491.73	\$24,796.41	\$32,288.14	\$35,289.50	\$2,501.39	\$70,000.00	\$2,007.00	\$888.00	\$2,895.00	\$2,895.00	\$2,895.00	0.2%	0.2%	4.6%
2500	300	7500000	\$30,909.91	\$46,388.00	\$77,297.91	\$12,616.66	\$42,901.34	\$55,518.00	\$60,325.00	\$4,413.66	\$120,000.00	\$1,035.00	\$240.00	\$1,275.00	\$1,275.00	\$1,275.00	0.2%	0.2%	4.7%
7500	300	22500000	\$157,965.91	\$210,077.50	\$368,043.41	\$17,418.48	\$204,487.50	\$221,905.98	\$240,487.50	\$18,229.41	\$455,715.32	\$15,052.50	\$4,100.00	\$19,152.50	\$19,152.50	\$19,152.50	0.2%	0.2%	4.7%
10000	300	30000000	\$210,549.91	\$286,770.00	\$497,319.91	\$23,231.29	\$286,610.91	\$310,822.20	\$332,650.00	\$24,022.54	\$607,552.45	\$20,070.00	\$5,880.00	\$25,950.00	\$25,950.00	\$25,950.00	0.2%	0.2%	4.7%
20000	300	60000000	\$420,849.91	\$569,540.00	\$990,389.91	\$46,432.54	\$569,800.91	\$626,233.45	\$670,500.00	\$48,995.04	\$1,214,878.49	\$40,140.00	\$11,760.00	\$51,900.00	\$51,900.00	\$51,900.00	0.2%	0.2%	4.7%
750	400	3000000	\$5,186.91	\$9,247.20	\$14,434.11	\$3,055.33	\$12,722.11	\$15,777.44	\$17,000.00	\$1,222.56	\$33,777.44	\$1,158.00	\$288.00	\$1,446.00	\$1,446.00	\$1,446.00	0.2%	0.2%	4.8%
1000	400	4000000	\$11,388.41	\$18,677.00	\$30,065.41	\$5,691.14	\$20,955.41	\$26,646.55	\$28,650.00	\$1,695.55	\$59,646.55	\$1,536.00	\$384.00	\$1,920.00	\$1,920.00	\$1,920.00	0.2%	0.2%	4.8%
1500	400	6000000	\$17,338.41	\$27,015.00	\$44,353.41	\$8,537.71	\$30,492.71	\$38,030.42	\$41,340.00	\$2,547.29	\$81,670.42	\$2,207.00	\$540.00	\$2,747.00	\$2,747.00	\$2,747.00	0.2%	0.2%	4.8%
2500	400	10000000	\$28,909.91	\$43,388.00	\$72,297.91	\$13,916.66	\$49,901.34	\$63,818.00	\$69,325.00	\$4,483.66	\$130,000.00	\$1,035.00	\$240.00	\$1,275.00	\$1,275.00	\$1,275.00	0.2%	0.2%	4.9%
7500	400	30000000	\$142,889.91	\$197,007.50	\$339,897.41	\$17,418.48	\$204,487.50	\$221,905.98	\$240,487.50	\$18,229.41	\$455,715.32	\$15,052.50	\$4,100.00	\$19,152.50	\$19,152.50	\$19,152.50	0.2%	0.2%	4.9%
10000	400	40000000	\$187,159.91	\$256,770.00	\$443,929.91	\$23,186.91	\$286,610.91	\$310,822.20	\$332,650.00	\$24,022.54	\$607,552.45	\$20,070.00	\$5,880.00	\$25,950.00	\$25,950.00	\$25,950.00	0.2%	0.2%	4.9%
20000	400	80000000	\$374,849.91	\$513,540.00	\$888,389.91	\$46,865.08	\$513,400.91	\$560,254.99	\$595,300.00	\$48,995.04	\$1,214,878.49	\$40,140.00	\$11,760.00	\$51,900.00	\$51,900.00	\$51,900.00	0.2%	0.2%	4.9%
750	500	3750000	\$21,569.41	\$34,368.35	\$55,937.76	\$12,708.57	\$47,646.35	\$60,354.92	\$65,800.00	\$5,446.35	\$113,446.35	\$4,808.75	\$1,335.00	\$6,143.75	\$6,143.75	\$6,143.75	0.2%	0.2%	5.0%
1000	500	5000000	\$32,670.91	\$51,795.00	\$84,465.91	\$19,181.41	\$70,916.41	\$89,902.32	\$97,200.00	\$7,715.41	\$156,916.41	\$6,782.25	\$1,934.16	\$8,716.41	\$8,716.41	\$8,716.41	0.2%	0.2%	5.0%
1500	500	7500000	\$42,885.91	\$66,692.50	\$114,578.41	\$25,399.10	\$91,977.51	\$117,376.91	\$126,000.00	\$9,677.91	\$213,376.91	\$18,467.50	\$2,517.50	\$21,000.00	\$21,000.00	\$21,000.00	0.2%	0.2%	5.0%
2500	500	12500000	\$71,315.91	\$110,487.50	\$181,803.41	\$42,952.22	\$154,855.22	\$207,757.64	\$224,250.00	\$16,483.22	\$379,757.64	\$30,942.33	\$4,500.00	\$35,442.33	\$35,442.33	\$35,442.33	0.2%	0.2%	5.0%
7500	500	37500000	\$351,465.91	\$543,662.50	\$895,128.41	\$213,981.35	\$730,842.65	\$964,684.60	\$1,040,812.50	\$76,871.35	\$1,807,684.60	\$153,875.00	\$40,000.00	\$1,947,684.60	\$1,947,684.60	\$1,947,684.60	0.2%	0.2%	5.0%
10000	500	50000000	\$468,665.91	\$724,545.00	\$1,193,210.91	\$286,312.12	\$989,522.12	\$1,275,734.23	\$1,375,500.00	\$104,234.23	\$2,489,734.23	\$200,800.00	\$52,000.00	\$2,541,734.23	\$2,541,734.23	\$2,541,734.23	0.2%	0.2%	5.0%
20000	600	120000000	\$937,849.91	\$1,449,090.00	\$2,386,939.91	\$572,624.24	\$1,981,314.24	\$2,553,654.18	\$2,751,000.00	\$192,654.18	\$5,237,654.18	\$403,600.00	\$104,000.00	\$5,341,654.18	\$5,341,654.18	\$5,341,654.18	0.2%	0.2%	5.0%
750	600	4500000	\$24,338.41	\$38,015.50	\$62,353.91	\$18,141.41	\$70,497.32	\$88,648.73	\$95,897.50	\$7,355.91	\$156,248.73	\$13,000.00	\$3,800.00	\$169,048.73	\$169,048.73	\$169,048.73	0.2%	0.2%	5.1%
1000	600	6000000	\$32,739.91	\$50,354.00	\$83,093.91	\$24,238.54	\$94,632.44	\$118,864.98	\$126,000.00	\$9,864.98	\$203,864.98	\$16,700.00	\$4,500.00	\$208,364.98	\$208,364.98	\$208,364.98	0.2%	0.2%	5.1%
1500	600	9000000	\$48,435.91	\$73,388.00	\$121,823.91	\$36,357.79	\$138,185.79	\$174,543.78	\$183,000.00	\$11,543.78	\$290,000.00	\$23,400.00	\$6,300.00	\$296,300.00	\$296,300.00	\$296,300.00	0.2%	0.2%	5.1%
2500	600	15000000	\$80,565.91	\$121,388.00	\$201,953.91	\$60,381.29	\$201,769.58	\$262,150.87	\$276,330.00	\$14,419.58	\$428,150.87	\$34,500.00	\$8,700.00	\$436,850.87	\$436,850.87	\$436,850.87	0.2%	0.2%	5.1%
7500	600	45000000	\$402,827.91	\$606,692.50	\$1,009,520.41	\$301,906.45	\$1,009,520.41	\$1,311,116.91	\$1,375,500.00	\$69,616.91	\$2,379,116.91	\$192,000.00	\$49,000.00	\$2,428,116.91	\$2,428,116.91	\$2,428,116.91	0.2%	0.2%	5.1%
10000	600	60000000	\$537,549.91	\$809,540.00	\$1,347,089.91	\$402,954.00	\$1,347,089.91	\$1,749,630.82	\$1,825,000.00	\$77,540.82	\$3,122,089.91	\$248,000.00	\$62,000.00	\$3,184,089.91	\$3,184,089.91	\$3,184,089.91	0.2%	0.2%	5.1%
20000	600	120000000	\$1,075,849.91	\$1,619,080.00	\$2,694,929.91	\$805,908.00	\$2,694,929.91	\$3,499,261.64	\$3,650,000.00	\$154,231.64	\$6,244,929.91	\$496,000.00	\$125,000.00	\$6,369,929.91	\$6,369,929.91	\$6,369,929.91	0.2%	0.2%	5.1%

Rate Item on Bill
Rates Effective January 1, 2020
Proposed Rates Effective April 1, 2020
\$ Increase (Decrease)

Rate Item on Bill	Rate	Rate	\$ Increase (Decrease)
(1) Distribution Customer Charge	\$1,100.00	\$1,100.00	\$0.00
(2) LHAP Enhancement Charge	\$0.80	\$0.80	\$0.00
(3) Renewable Energy Growth Program Charge	\$272.11	\$272.11	\$0.00
(4) Distribution Demand Charge (per kWh)	\$0.26	\$0.26	\$0.00
(5) Peak Load Charge (per kW)	\$0.26	\$0.26	\$0.00
(6) Distribution Charge (per kWh)	\$0.00418	\$0.00418	\$0.00000
(7) Operating & Maintenance Expense Reconciliation Factor	\$0.00079	\$0.00079	\$0.00000
(8) Capital Expenditure Factor	\$0.00027	\$0.00027	\$0.00000
(9) Energy Efficiency Program Charge	\$0.00005	\$0.00005	\$0.00000
(10) Demand Charge	\$0.00005	\$0.00005	\$0.00000
(11) Demand Charge	\$0.00028	\$0.00028	\$0.00000
(12) Storm Fund Replenishment Factor	\$0.00010	\$0.00010	\$0.00000
(13) Average Management Adjustment Factor	\$0.00102	\$0.00102	\$0.00000
(14) Low Income Discount Recovery Factor	\$0.00102	\$0.00102	\$0.00000
(15) Long-term Contract for Renewable Energy Charge	\$0.00048	\$0.00048	\$0.00000
(16) Transmission Demand Charge	\$4.47	\$4.47	\$0.00000
(17) Base Transmission Charge	\$0.01166	\$0.01166	\$0.00000
(18) Transmission Adjustment Factor	\$0.00245	\$0.00245	\$0.00000
(19) Transmission Unrecoverable Factor	\$0.00029	\$0.00029	\$0.00000
(20) Transmission Charge	\$0.00021	\$0.00021	\$0.00000
(21) Transmission Charge	\$0.00021	\$0.00021	\$0.00000
(22) Transmission Charge	\$0.00021	\$0.00021	\$0.00000
(23) Energy Efficiency Program Charge	\$0.01353	\$0.01353	\$0.00000
(24) Standard Other Service Base Charge	\$0.1125	\$0.1125	\$0.00000
(25) S05 Adjustment Factor	\$0.00138	\$0.00138	\$0.00000
(26) S05 Administrative Cost Adjustment Factor	\$0.00233	\$0.00233	\$0.00000
(27) Renewable Energy Standard Charge	\$0.00603	\$0.00603	\$0.00000
Line Item on Bill			
(28) Customer Charge	\$1,100.00	\$1,100.00	\$0.000