

June 30, 2016

BY HAND DELIVERY AND ELECTRONIC MAIL

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

**RE: 2016 Renewable Energy (RE) Growth Program Factor Filing
Docket No. _____**

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed the Company's RE Growth Program Factor filing in which the Company is proposing RE Growth Factors and RE Growth Reconciliation Factors effective October 1, 2016.² The proposed RE Growth Factors are based upon an estimate of costs for the 2016 Program Year of April 2016 through March 2017. This filing also includes the first annual RE Growth Program reconciliation of actual RE Growth revenue and costs, reflecting revenue billed through the current RE Growth Factors for the period July 2015 through March 2016, and actual costs incurred to implement and administer the RE Growth Program during the period October 2014 through March 2016.

The effect of the proposed RE Growth Factors and RE Growth Reconciliation Factors on the monthly bill of a residential Standard Offer Service customer using 500 kWh is an increase of \$0.05, or 0.1%. The enclosed filing consists of Joint Pre-Filed Direct Testimony and Schedules of Jeanne A. Lloyd and Adam S. Crary.

Thank you for your attention to this matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Leo Wold, Esq.
Jon Hagopian, Esq.
Karen Lyons, Esq.
Steve Scialabba, Division

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

² The Company submits this filing pursuant to the RE Growth Cost Recovery Provision, RIPUC No. 2153, which the PUC approved in Docket No. 4536-A. Pursuant to the RE Growth Cost Recovery Provision, the RE Growth Factors are designed to include an estimate of the costs expected to be incurred by the Company during the current RE Growth program year. In addition, the RE Growth Reconciliation Factors are designed to recover from or credit to customers the balance of each program year's reconciliation of actual RE Growth Program costs and revenue billed through the RE Growth Factors.

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
RE GROWTH FACTOR FILING
WITNESSES: JEANNE A. LLOYD
ADAM S. CRARY

JOINT PRE-FILED DIRECT TESTIMONY

OF

JEANNE A. LLOYD

AND

ADAM S. CRARY

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1 **I. Introduction and Qualifications of Jeanne A. Lloyd**

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

3 A. My name is Jeanne A. Lloyd, and my business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

5

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

7 A. I am a Principal Program Manager in Electric Pricing, New England in the Regulation
8 and Pricing group of National Grid USA Service Company, Inc., a subsidiary of National
9 Grid USA (National Grid). This department provides rate-related support to The
10 Narragansett Electric Company d/b/a National Grid (the Company).

11

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

13 A. In 1980, I graduated from Bradley University in Peoria, Illinois with a Bachelor's Degree
14 in English. In December 1982, I received a Master of Arts Degree in Economics from
15 Northern Illinois University in De Kalb, Illinois.

16

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

18 A. I was employed by Eastern Utilities Association (EUA) Service Corporation in December
19 1990 as an Analyst in the Rate Department. I was promoted to Senior Rate Analyst on
20 January 1, 1993. As a Senior Rate Analyst, my responsibilities included the study,
21 analysis and design of the retail electric service rates, rate riders, and special contracts for

1 the EUA retail companies. After the merger of New England Electric System and EUA
2 in April 2000, I joined the Distribution Regulatory Services Department as a Principal
3 Financial Analyst. I assumed my present position on October 1, 2006. Prior to my
4 employment at EUA, I was on the staff of the Missouri Public Service Commission in
5 Jefferson City, Missouri in the position of research economist. My responsibilities
6 included presenting both written and oral testimony before the Missouri Public Service
7 Commission in the areas of cost of service and rate design for electric and natural gas rate
8 proceedings.

9
10 **Q. Have you previously testified before the Rhode Island Public Utilities Commission**
11 **(PUC)?**

12 A. Yes. I have testified before the PUC on numerous occasions in support of various rate-
13 related issues.

14
15 **II. Introduction and Qualifications of Adam S. Crary**

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

17 A. My name is Adam S. Crary, and my business address is 40 Sylvan Road, Waltham,
18 Massachusetts 02451.

19
20 **Q. Please state your position.**

1 A. I am a Senior Analyst for Electric Pricing, New England in the Regulation and Pricing
2 Department of National Grid USA Service Company, Inc. This department provides
3 rate-related support to the Company.

4
5 **Q. Please describe your educational background and training.**

6 A. In 1995, I graduated from Berklee College of Music in Boston, MA with a Bachelor of
7 Music degree.

8
9 **Q. Please describe your professional experience.**

10 A. For approximately eight years between 2000 and 2014, I was employed by Computer
11 Sciences Corporation as a Pricing Analyst for their Managed Hosting and Cloud
12 Computing business divisions, respectively. I began my employment as a Senior Pricing
13 Analyst with National Grid in June 2014.

14
15 **Q. Have you previously testified before PUC?**

16 A. Yes. I previously testified in the RE Growth Program proceeding, Docket No. 4589A
17 and in the fiscal year (FY) 2015 Electric Infrastructure, Safety and Reliability (ISR) Plan
18 Reconciliation proceeding, Docket No. 4473. I have also submitted Pre-Filed Direct
19 Testimony in the FY 2015 Electric Revenue Decoupling Mechanism Reconciliation
20 Filing, RIPUC Docket No. 4566 and the FY17 Electric ISR Plan, Docket No. 4592. I
21 most recently testified in the 2016 Annual Retail Rates Filing, Docket No. 4599.

1 **III. Purpose of Pre-Filed Testimony**

2 **Q. What is the purpose of your pre-filed testimony?**

3 A. The purpose of our pre-filed testimony is to present the Company's estimate of the
4 incremental cost subject to recovery for the period April 2016 through March 2017 (the
5 2016 Program Year) to administer the Renewable Energy Growth (RE Growth) Program
6 and the calculation of the proposed RE Growth Factors designed to recover that cost.
7 This filing also presents the reconciliation of revenue and cost (operation and
8 maintenance (O&M) expense incurred as well as the revenue requirement on meters
9 installed and placed into service)¹ during and prior to the initial Program Year ending
10 March 2016 (the 2015 Program Year) and the proposed RE Growth Reconciliation
11 Factors, which will be combined with the RE Growth Factors and presented as a single
12 monthly charge on customers' bills. The Company proposes that both the RE Growth
13 Factors and the RE Growth Reconciliation Factors be effective for bills rendered after
14 October 1, 2016.

15
16 Recovery of costs associated with the RE Growth Program is in accordance with the
17 Company's RE Growth Cost Recovery Provision, RIPUC No. 2153, which the PUC
18 approved in Docket No. 4536-A at an Open Meeting held March 31, 2015, and which
19 became effective on April 1, 2015. Pursuant to the RE Growth Cost Recovery Provision,

¹ The Company has capitalized a portion of the costs incurred to modify its customer service system (CSS) required to implement the RE Growth Program. The capitalized cost was not recorded as plant in service until April 2016. Therefore, the Company will begin reflecting the revenue requirement of the capitalized cost of modifying CSS in the annual reconciliation for the 2016 Program Year, which will encompass the period April 2016 through March 2017.

1 the RE Growth Factors are designed to include an estimate of the costs expected to be
2 incurred by the Company during the current Program Year. The RE Growth Factors
3 currently in effect were approved by the PUC in Docket No. 4542 and were effective
4 July 1, 2015. These factors were designed to recover the expense expected to be incurred
5 prior to and during the 2015 Program Year. The proposed RE Growth Factors will
6 replace the current factors.

7
8 This filing also includes the first annual RE Growth Program reconciliation of actual RE
9 Growth revenue and costs. The reconciliation period includes revenue billed through the
10 current RE Growth Factors for the period July 2015 through March 2016, and actual
11 costs incurred to administer the RE Growth Program during the period October 2014
12 through March 2016.

13
14 The effect of the proposed RE Growth Factors and RE Growth Reconciliation Factors on
15 the monthly bill of a residential Standard Offer Service (SOS) customer using 500 kWh is
16 an increase of \$0.05, or approximately 0.1%.

17
18 **Q. Why is the Company proposing to implement the proposed RE Growth Factors and**
19 **RE Growth Reconciliation Factors on October 1, 2016?**

20 A. The RE Growth Statute² and the RE Growth Cost Recovery Provision require the

² R.I. Gen. Laws § 39-26.6-25(b).

1 Company to file a reconciliation of the revenue and cost for each Program Year within
2 three months following the end of the Program Year. Therefore, the Company must
3 submit its annual reconciliation filing no later than June 30 of each year. In order to
4 allow the PUC and the Rhode Island Division of Public Utilities and Carriers (Division)
5 adequate time to consider the Company's reconciliation filing, the Company proposes an
6 effective date for the proposed factors of October 1. For administrative convenience, the
7 Company is including the proposals for both the RE Growth Factors and RE Growth
8 Reconciliation Factors in the same filing.

9
10 **Q. How is your testimony organized?**

11 A. Section IV of our testimony provides a description of the RE Growth Program Cost
12 Recovery Provision. Section V describes the estimated expense the Company expects to
13 incur during the 2016 Program Year and explains the calculation of the proposed RE
14 Growth Factors. Section VI describes the reconciliation of revenue billed through the
15 currently-effective RE Growth Factors and incremental cost incurred prior to and during
16 the 2015 Program Year. Section VI also explains the calculation of the proposed RE
17 Growth Reconciliation Factors. Section VII discusses the typical bills for each of the
18 Company's rate classes that presents the impacts resulting from implementing the
19 proposed RE Growth Factors and RE Growth Reconciliation Factors. Section VIII
20 discusses the Summary of Retail Delivery Rates tariff. Section IX concludes the
21 testimony.

1 **IV. Overview of the Company’s RE Growth Cost Recovery Provision**

2 **Q. Please describe the provisions of the RE Growth Cost Recovery Provision, RIPUC**
3 **No. 2153.**

4 A. The RE Growth Cost Recovery Provision provides for the recovery of incremental costs
5 associated with the RE Growth Program from all retail delivery service customers
6 through a fixed monthly charge per customer. Under the RE Growth Program, the
7 Company is required to purchase the output generated by Distributed Generation (DG)
8 projects that have been awarded Certificates of Eligibility through the RE Growth
9 Program enrollment process and compensate program applicants in the form of
10 Performance Based Incentive (PBI) Payments. In turn, the applicants will assign to the
11 Company title to all energy, capacity, and Renewable Energy Certificates (RECs)
12 (collectively, Market Products) generated by the DG projects.³ The Company will sell
13 the energy and RECs as required by the RE Growth Statute.⁴ The net proceeds from the
14 sale of the Market Products will be used to offset the cost of the RE Growth Program.

15
16 In addition, the RE Growth Cost Recovery Provision authorizes the Company to recover
17 1.75 percent of the total PBI Payments as remuneration. Finally, the Company will track
18 and annually seek recovery for certain implementation, administrative, and other costs as
19 identified by the RE Growth Cost Recovery Provision. These costs are associated with
20 billing system changes, metering for small-scale solar projects, the consultants hired by

³The Company will purchase only RECs from residential RE Growth Program participants.

⁴R.I. Gen. Laws § 39-26.6-21(a)(3).

1 the Office of Energy Resources (OER) or the Company to perform Ceiling Price studies
2 and other reports or studies as approved by the PUC, and certain other types of costs that
3 will be described in more detail later in this testimony.

4
5 The Company must annually submit to the PUC its RE Growth reconciliation, as
6 discussed above, and proposed RE Growth Reconciliation Factors based upon the over-
7 or under-recovery of costs presented in the reconciliation filing. In addition, if the
8 Company determines an adjustment is needed to the RE Growth Factors in effect at the
9 time, the Company is also required to submit a filing requesting such adjustment, with the
10 adjustment is to be based, in part, on the level of costs included in the annual RE Growth
11 reconciliation filing. Otherwise, the RE Growth Factors remain in effect, pursuant to the
12 RE Growth Cost Recovery Provision. If a significant over- or under-recovery of costs
13 should occur at any time, the Company may submit a request to the PUC to adjust the RE
14 Growth Factors.

15
16 The RE Growth Factors and the RE Growth Reconciliation Factors are fixed monthly
17 charges that vary by rate class and appear together as a single separate line item on
18 customers' bills.

19
20 The Company's proposed RE Growth Factors and RE Growth Reconciliation Factors are
21 presented in Schedule NG-1.

1 **V. RE Growth Program Estimated Cost for the 2016 Program Year**

2 **Q. What is the estimated RE Growth Program cost for the Program Year ending**
3 **March 2017?**

4 A. As indicated on Schedule NG-2, page 1, the Company estimates that it will incur costs of
5 approximately \$2.5 million to administer the RE Growth Program during the 2016
6 Program Year. The \$2.5 million estimated cost includes the following: approximately
7 \$1.6 million of projected net costs associated with PBI Payments made to customers that
8 currently participate in the RE Growth Program as well as the amounts the Company
9 anticipates it will pay customers expected to enroll in the RE Growth Program during the
10 year; approximately \$800,000 in expected administrative expenses; approximately \$3,700
11 related to metering capital cost; and approximately \$32,000 in remuneration.

12
13 **Q. How are the estimated PBI Payments determined?**

14 A. The estimated annual PBI Payments for the 2016 Program Year are shown on Schedule
15 NG-2, page 1, line (1). This amount is calculated by multiplying the assumed PBI
16 associated with each class of DG project by the estimated annual output of the assumed
17 units in that class.

18
19 The detailed calculation is performed on page 3, Section 1 of Schedule NG-2. For the
20 2016 Program Year, the Company is only including estimated PBI Payments associated
21 with small-scale solar installations. Because of the timeframe necessary to install

1 medium, commercial, and large scale solar projects, as well as other types of renewable
2 generation, the Company expects that, during the 2016 Program Year, only small-scale
3 solar units will be operational and receiving PBI Payments. In addition, the Company
4 has made certain assumptions regarding the number of units, the size of the units, and the
5 expected operational dates of units that may participate during the 2016 Program Year to
6 estimate the expected PBI Payments during the Program Year. Once the total estimated
7 PBI Payments have been calculated, the Company deducts the estimated value of the
8 Market Products it will be selling to determine the net cost to be recovered from
9 customers.

10
11 **Q. How is the estimated value of the Market Products, as shown on Schedule NG-2,**
12 **page 1, Line (2) determined?**

13 A. The estimated value of the Market Products is the sum of the estimated market value of
14 the energy and the RECs produced by each unit. The estimated market value of the
15 energy will be based upon the spot market price estimates included in the SOS rates for
16 the Commercial SOS group, as adjusted for estimates of capacity and ancillary services.
17 The market value of the RECs are estimated using the same market price estimate of new
18 RECs that was used in the Company's recent Long Term Contracting for Renewable
19 Energy Recovery (LTCRER) Rate Factor filing, Docket No. 4587 (filed with the PUC on
20 May 16, 2016). The Company uses a very similar methodology to value the products

1 purchased through long-term contracts to determine the above-market cost recovered
2 from customers through the LTCRER Recovery Factor.

3
4 The calculation of the estimated value of the Market Products is shown in detail in
5 Schedule NG-2, page 3, Section 2. Pursuant to the RE Growth Statute⁵ and the RE
6 Growth Program Tariff for Residential Customers, RIPUC No. 2151-A, the Company
7 purchases RECs, but not energy, from customers with small-scale solar installations.
8 Therefore, only proceeds from the sale of RECs associated with residential small-scale
9 solar installations are reflected in Section 2 on page 3 of Schedule NG-2.

10
11 **Q. What is the estimated net cost to be recovered from all customers of PBI Payments**
12 **for the 2016 Program Year?**

13 A. As shown on Schedule NG-2, page 1, Line (3), the estimated net cost of PBI Payments
14 for the 2016 Program Year is approximately \$1.6 million.

15
16 **Q. Please describe the implementation and administrative costs and other costs to be**
17 **recovered through the proposed RE Growth Factors.**

18 A. The RE Growth Program Cost Recovery Provision provides for the recovery of the
19 following incremental costs:

⁵ R.I. Gen. Laws § 39-26.6-21(a)(3).

1 (1) The revenue requirement on RE Growth capital investment for the installation of
2 separate meters for small-scale solar projects;

3 (2) The incremental expense the Company incurs to meet program objectives, including
4 the cost of making billing system improvements to achieve the goals of the RE Growth
5 Program;

6 (3) The costs incurred for consultants hired by the OER or the Company and approved by
7 the PUC to perform ceiling price studies and other reports or studies as approved by the
8 PUC; and

9 (4) Forfeited Performance Guarantee Deposits, which will be an offset to RE Growth
10 Program expenses.

11
12 **Q. Please describe the administrative costs that the Company expects to incur to**
13 **administer the RE Growth Program during the 2016 Program Year.**

14 A. The administrative costs that the Company expects to incur during the 2016 Program
15 Year include the costs of full time employees and/or contract employees that have been
16 hired or will be hired during 2016 for the purposes of administering the RE Growth
17 Program. In addition, the Company will continue to incur ongoing costs associated with
18 modifications to its billing system that were necessary to implement the RE Growth
19 Program and which include the calculation and application of PBI Payments and bill
20 credits to the bills of customers participating in the RE Growth Program. Finally, the
21 Company will continue to annually incur expenses for the consultant(s) hired by the OER

1 to make recommendations regarding ceiling prices for each of the renewable energy
2 classes included for participation in the RE Growth Program.

3
4 **Q. What is the estimated expense associated with added resources to administer the RE**
5 **Growth Program?**

6 A. The Company estimates that it will incur approximately \$408,000 during the 2016
7 Program Year in incremental labor costs associated with two existing resources that were
8 hired by the Company during or prior to the 2015 Program Year to support the
9 administration of the RE Growth Program, as well as three new resources expected to be
10 added in the 2016 Program Year. Schedule NG-2, page 4 provides the calculation of the
11 estimated labor-related costs for these resources, including the expected base salaries of
12 the resources, the expected time that each resource will devote to the RE Growth
13 Program, plus the applicable labor-related overheads.⁶

14
15 **Q. Please describe in general terms the job responsibilities of the new resources**
16 **expected to be added.**

17 A. The new resources needed to administer the RE Growth Program will perform various
18 functions and activities related to the program. In general, these activities will include:

⁶ The Company has excluded the labor-related overheads associated with pensions and postretirement benefits other than pensions (PBOP) from estimated and actual labor-related costs to be recovered pursuant to the RE Growth Cost Recovery Provision. Pension and PBOP expenses are recovered pursuant to the Company's Pension Adjustment Mechanism Provision, RIPUC No. 2119.

- 1 • Review, approve, and process program applications;
- 2 • Provide analytical support, analyze and collect data, and create and
- 3 monitor reports;
- 4 • Order and track meter exchanges; and
- 5 • Respond to incoming customer calls and emails.
- 6

7 **Q. What are the estimated billing system implementation costs?**

8 A. The Company estimates that the annual revenue requirement associated with costs

9 capitalized for modifications to its CSS through March 2016 will be approximately

10 \$99,000. The revenue requirement associated with the capitalized portion of the billing

11 system modifications is discussed in Section VI below.

12

13 **Q. Please explain the estimated cost in Schedule NG-2, Page 4, Line (3).**

14 A. The approximately \$166,000 included in Schedule NG-2, page 4, Line (3) is the

15 estimated cost to implement the SolarWise Program, which the PUC approved in Docket

16 No. 4589-A. This estimated cost includes general website functionality, information

17 security, marketing, and process integration efforts between the Company and its selected

18 partner in the SolarWise Program, EnergySage. This estimated cost also includes costs

19 relating to the delivery of marketing materials to customers and information relating to

20 historic usage information by vendors, OPower and RISE.

1 The Company has also reflected in the estimated PBI Payments discussed above an
2 estimate of SolarWise Bonus Payments that would be provided to eligible and qualifying
3 applicants. The SolarWise Program combines savings that result from energy efficiency
4 (EE) measures with additional incentives paid from the RE Growth Program for pursuing
5 solar installations. Small-scale solar projects that commit to or install EE savings
6 measures from the SolarWise Program can qualify for SolarWise Bonus Payments in the
7 RE Growth Program. Applicants wishing to obtain the SolarWise Bonus Payment must
8 show that they have achieved, or are committed to achieve through EE measures, the
9 required program savings levels. Applicants who have been approved as qualifying for a
10 SolarWise Bonus Tier are eligible to receive SolarWise Bonus Payments, provided that
11 their project is selected in the RE Growth Program. The PBI Payments will be adjusted to
12 reflect the percentage increase applicable to the SolarWise Bonus Tier indicated on the
13 Applicant's SolarWise Approval and Certificate of Eligibility.

14
15 **Q. What costs associated with the 2016 Program Year are recoverable for consultants**
16 **hired by the OER?**

17 A. In an Open Meeting held on October 15, 2015 in Docket No. 4536-B, the PUC approved
18 the DG Board's request for a budget increase to cover the cost of consultants that are
19 contracted to facilitate the annual ceiling price studies executed by the DG Board. The
20 approved budget for the ceiling price study scheduled for later in 2016 has increased from

1 \$65,000 to \$125,000. This anticipated cost is included in the estimated administrative
2 expenses in Schedule NG-2, page 4, Line (4).
3

4 **Q. How are the estimated meter costs determined?**

5 A. Annual meter investment recovery is the annual revenue requirement related to the
6 cumulative capital investment in meters installed on small-scale solar generation units. A
7 Company-owned meter is installed on each small-scale DG Project in order to accurately
8 measure and report its output. Additionally, where on-site load is present, the Company
9 requires that the DG Project meter be wired in parallel with the customer's service meter
10 and be adjacent to the service meter. These requirements enable the Company to
11 accurately measure both the output of the DG Project and the customer's on-site use.

12
13 The Company provides the metering for small-scale solar facilities and recovers the cost
14 of the meters, as provided in the RE Growth Statute,⁷ through the proposed cost recovery
15 mechanism discussed later in this testimony. For all other DG Projects, the customer
16 and/or the applicant is responsible for the cost of the meter.

17
18 **Q. Please describe the calculation of the estimated remuneration.**

19 A. The remuneration is calculated as the total estimated PBI Payments multiplied by 1.75
20 percent. This calculation is shown in Schedule NG-2, page 1, Line (6).

⁷R.I. Gen. Laws § 39-26.6-18.

1 **Q. How are the rate class RE Growth Factors calculated?**

2 A. Schedule NG-2, page 2, provides the calculation of rate class-specific RE Growth Factors
3 based upon the estimated RE Growth Program expense the Company expects to incur
4 during the 2016 Program Year.

5 The estimated expense for the Program Year is allocated to each rate class based on a rate
6 base allocator developed from the allocated cost of service study approved in the
7 Company's most recent general rate case.⁸ The allocated amount for each rate class is
8 divided by the forecasted number of bills during the period October 1, 2016 through
9 September 30, 2017 to determine the monthly charge for each rate class. For the outdoor
10 lighting class, which consists of Rates S-05, S-06, S-10, and S-14, the allocated amount is
11 divided by the estimated number of active lights to determine the monthly charge
12 applicable to these rate classes. The result is then adjusted to include an allowance for
13 uncollectibles amounts, pursuant to the RE Growth Cost Recovery Provision, at 1.25%,
14 which was set at the Company's most recent general rate case.

15
16 **VI. RE Growth 2015 Program Year Reconciliation**

17 **Q. Please describe the Company's RE Growth reconciliation for the period October**
18 **2014 through March 2016.**

19 A. This reconciliation is included as Schedule NG-3. Page 1 of Schedule NG-3 reflects a
20 total over-recovery of approximately \$275,000 for the period October 2014 through

⁸ Docket No. 4323.

1 March 2016. The Company began incurring expenses associated with implementation of
2 the RE Growth Program in October 2014, and the approved RE Growth Factors were
3 effective July 1, 2015.
4

5 **Q. Please describe the RE Growth reconciliation process in more detail.**

6 A. On an annual basis, the Company is required to file a reconciliation which reconciles RE
7 Growth revenue and cost in accordance with the RE Growth Cost Recovery Provision.
8 This provision requires the Company to reconcile the revenue billed through RE Growth
9 Factor, excluding the adjustment for uncollectible amounts, to the actual cost incurred
10 during the reconciliation period, and the excess or deficiency, including interest at the
11 Company's short term interest rate, is to be credited to, or recovered from, all customers
12 through RE Growth Reconciliation Factors. For billing purposes, the RE Growth
13 Reconciliation Factors are included with the RE Growth Factors on a single line item on
14 customers' bills.
15

16 **Q. Please summarize the results of the Company's RE Growth reconciliation for the**
17 **period October 2014 through March 31, 2016.**

18 A. The RE Growth reconciliation summary is shown on Schedule NG-3, page 1, Section 1.
19 Line (1) shows the revenue billed each month through the RE Growth Factors during the
20 2015 Program Year, totaling \$1,213,282. Line (2) shows the expenses totaling \$939,593
21 for the 2015 Program Year. Line (3) shows the total over-collection of \$273,689. Line

1 (4) shows interest during the refund period. Line (5) shows an ending over-recovery
2 balance of \$274,574.
3

4 **Q. Please describe the RE Growth revenue in greater detail.**

5 A. The detail of the RE Growth revenue is shown on page 2 of Schedule NG-3. Column (a)
6 shows the total RE Growth Factor revenue billed via the RE Growth Factors during the
7 period. Column (b) is a placeholder for revenue billed through the RE Growth
8 Reconciliation Factors which will be applicable in future reconciliations. Column (c)
9 shows the revenue from the base RE Growth Factors. Column (d) shows the revenue
10 applicable with the 1.25% adjustment for uncollectible amounts, which is calculated as
11 the base RE Growth revenue multiplied by the allowed uncollectible rate of 1.25%.
12 Column (e) shows the net RE Growth Factor revenue that provides the recovery of RE
13 Growth Program costs.
14

15 **Q. Please describe the costs included in the RE Growth Factor reconciliation and**
16 **shown on Schedule NG-3, page 3.**

17 A. Page 3 shows a breakdown of the costs associated with the 2015 Program Year. The total
18 cost from October 2014 through the end of the 2015 Program Year, March 31, 2016 of
19 \$939,593 is shown on Line (16).
20

21 Section (1), Column (a) shows the monthly PBI Cash payments paid to participating

1 customers during the period. Column (b) shows the net proceeds from Market Products,
2 which in this reconciliation period would be limited to proceeds received from the sale of
3 RECs associated with the generation of DG units in the RE Growth Program. The first
4 RE Growth Program REC sales were made in May of 2016. Therefore these proceeds
5 will be reflected in the 2016 Program Year reconciliation that the Company will file next
6 year. Column (c) calculates the Net PBI payments, less market proceeds.

7
8 Section 2 shows the administrative costs associated with implementing and administering
9 the RE Growth Program during the reconciliation period. Line (8) shows the
10 Remuneration, which is calculated as the Total PBI Payments from Column (a) x 1.75%.
11 Line (9) shows the O&M expense related to the modifications of the CSS required to
12 implement the proper billing calculations for PBI payments and bill credits. The O&M
13 costs included in the reconciliation, which total approximately \$600,000, are related to
14 contractor labor expenses. The Company capitalized a portion of the total cost related to
15 CSS modifications, totaling approximately \$441,000, through March 2016 and will be
16 amortizing this amount over 7 years. The revenue requirement for these capital costs is
17 shown on Schedule NG-4A. Because these capital costs were placed into service as of
18 April 1, 2016, the annual revenue requirement will be included as an administrative cost
19 for the 2016 Program Year, as shown in Schedule NG-2, page 4, Line (1).

1 Line (10) shows the expense during the reconciliation period of consultants hired by the
2 OER to perform a study and recommend ceiling prices.

3
4 Line (11) shows the annualized revenue requirement associated with the incremental
5 investment in meters installed on small scale solar DG Facilities. The calculation of this
6 revenue requirement is shown in Schedule NG-4B.

7
8 Line (12) shows billed charges from EnergySage as of March 31, 2016 in relation the
9 SolarWise Program.

10
11 Line (13) shows the incremental direct labor and associated labor-related overheads
12 (excluding pension and PBOP overheads) associated with implementation and
13 management of the RE Growth Program during the 2015 Program Year. Two new
14 resources were hired to assist in varying capacities in the 2015 Program year:

- 15 (1) Energy Procurement – Handles the procurement aspect and tactical
16 implementation of the overall RE Growth Program, with a particular emphasis
17 on non-Small-Scale Solar Projects, and manages the RE Growth webpage
18 (ngrid.com/REGrowth). Leads development and design of the RE Growth
19 web application (and subsequent modifications) and contributes in drafting the
20 enrollment rules and tariffs. Responds to customer questions and educates
21 customers about the RE Growth Program by presenting information to
22 customers at Company webinars and DG Seminars. Evaluates project
23 applications and awards and/or offers Certificates of Eligibility to applicants
24 as appropriate based on those evaluations. Creates and manages process
25 and aggregation of Small-Scale Solar Projects as Eligible Renewable Energy
26 Resources in Rhode Island. Leads the monthly Small-Scale Solar aggregation
27 reporting to OER and quarterly aggregation filing with the PUC.

1 (2) Customer Solutions Analyst – Acts as the primary point of contact for RE
2 Growth customer requests. Provides support, resolves issues, and ensures that
3 orders are fulfilled and delivered against service-level agreements. Processes
4 all transactional fulfillment requests and ensures completion of all job
5 requirements. Processes, troubleshoots, and monitors the resolution of any
6 applicable miscellaneous inquiries. Works with other business stakeholders to
7 support the fulfillment of all applicable external customer requests. Utilizes
8 the necessary National Grid systems in order to manage jobs, invoice
9 customers, and investigate and solve customer inquiries.
10

11 Line (14) contains additional costs related to contracted services for website updates
12 related to DG interconnection, and printing costs.
13

14 **Q. Please describe the calculation of the RE Growth Reconciliation Factors.**

15 A. Page 1, Section 2 of Schedule NG-3 presents the calculation of the RE Growth
16 Reconciliation Factors. The over-recovery at March 31, 2016 of \$274,574 on Line (6)
17 forms the basis for the proposed RE Growth Reconciliation Factors. The calculation of
18 the RE Growth Reconciliation Factors follows the same steps as those described above
19 for the proposed RE Growth Factors, from the allocation to rate classes based on a rate
20 base allocator to the adjustment for uncollectible amounts.
21

22 **VII. Typical Bill Analysis**

23 **Q. Has the Company performed a typical bill analysis to demonstrate the impact of the**
24 **proposed RE Growth Factors and RE Growth Reconciliation Factors?**

25 A. Yes. Schedule NG-5 is a typical bill analysis showing the impact of the proposed RE
26 Growth Factors and RE Growth Reconciliation Factors on the monthly bills at different

1 usage levels for each of the Company's rate classes. As shown on page 1 of Schedule
2 NG-5, the impact on a monthly bill of a residential Standard Offer Service customer
3 using 500 kWh is an increase of \$0.05, or 0.1%.

4
5 **VIII. Summary of Retail Delivery Rates**

6 **Q. Has the Company included a proposed RIPUC No. 2095, Summary of Retail Rates**
7 **tariff, reflecting the proposed RE Growth Factors and RE Growth Reconciliation**
8 **Factors?**

9 A. No, the Company is not presenting a revised Summary of Retail Rates tariff at this time.
10 The Company will submit its annual Infrastructure, Safety, and Reliability (ISR) Plan
11 Reconciliation filing as well as its Pension/PBOP Reconciliation filing on August 1, 2016
12 and will propose its ISR reconciliation factors and Pension/PBOP factor for effect on
13 October 1, 2016. Therefore, the Company will submit a revised Summary of Retail Rates
14 tariff as a compliance filing once the PUC has issued its decision in all dockets related to
15 rate changes proposed for October 1, 2016.

16
17 **IX. Conclusion**

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

19 A. Yes.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket ____
RE Growth Factor Filing
Schedules of Jeanne A. Lloyd
and Adam S. Crary

Schedule NG-1

Renewable Energy Growth Program
Proposed Combined Monthly RE Growth Cost Recovery Factors
For the Period October 1, 2016 through September 30, 2017

	<u>Residential</u> <u>A-16 / A-60</u> (b)	<u>Small C&I</u> <u>C-06</u> (c)	<u>General C&I</u> <u>G-02</u> (d)	<u>200 kW</u> <u>Demand</u> <u>B-32 / G-32</u> (e)	<u>3000 kW</u> <u>Demand</u> <u>B-62 / G-62</u> (f)	<u>Lighting</u> <u>S-10 / S-14</u> (g)	<u>Propulsion</u> <u>X-01</u> (h)
(1) Proposed RE Growth Factor (Costs for PYE March 2017)	\$0.24	\$0.39	\$3.78	\$27.53	\$606.47	\$0.10	\$656.67
(2) Proposed RE Growth Reconciliation Factor (Costs for PYE March 2016)	<u>(\$0.02)</u>	<u>(\$0.04)</u>	<u>(\$0.41)</u>	<u>(\$3.04)</u>	<u>(\$67.17)</u>	<u>(\$0.01)</u>	<u>(\$72.73)</u>
(3) Proposed Combined RE Growth Factor	\$0.22	\$0.35	\$3.37	\$24.49	\$539.30	\$0.09	\$583.94

- (1) Schedule NG-2, Page 2, Line (8)
(2) Schedule NG-3, Page 1, Line (13)
(3) Line (1) + Line (2)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket ____
RE Growth Factor Filing
Schedules of Jeanne A. Lloyd
and Adam S. Crary

Schedule NG-2

**Renewable Energy Growth Program
Summary of Annual Net Costs
for the Program Year Ending March 31, 2017**

(1) Estimated Performance-Based Incentive Payments	\$1,821,337
(2) less: Value of Market Products	<u>\$176,723</u>
(3) Net Cost	\$1,644,614
(4) Estimated Administrative Cost	\$798,477
(5) Revenue Requirement - Meter Investment	\$3,663
(6) Estimated Remuneration	<u>\$31,873</u>
(7) Total Estimated RE Growth Cost	\$2,478,628

- (1) Page 3, Section 1, Line (7)
- (2) Page 3, Section 2, Line (10)
- (3) Line (1) - Line (2)
- (4) Page 4, Line (5)
- (5) Schedule NG-4B, Sum of Pg. 1, Line (27), Column (b), and Page 2, Line (27), Column (a)
- (6) Line (1) x 1.75%
- (7) Line (3) + Line (4) + Line (5) + Line (6)

Renewable Energy Growth Program
Proposed Renewable Energy Growth Program Factors
For the Period October 1, 2016 through September 2017

	<u>Total</u>	<u>Residential</u>	<u>Small Commercial & Industrial</u>	<u>General Commercial & Industrial</u>	<u>Large Demand</u>	<u>Optional Large Demand</u>	<u>Street Lighting</u>	<u>Propulsion</u>
	<u>(a)</u>	<u>A16 / A60</u>	<u>C-06</u>	<u>G-02</u>	<u>B32 / G32</u>	<u>B62 / G62</u>	<u>S10 / S14</u>	<u>X-01</u>
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
(1) Projected Annual Renewable Energy Growth Program Cost	\$2,478,628							
(2) Total Rate Base (\$000s)	\$561,738	\$296,490	\$54,542	\$82,460	\$77,651	\$19,545	\$29,286	\$1,764
(3) Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	5.21%	0.31%
(4) Allocated Expense	\$2,478,628	\$1,308,239	\$240,663	\$363,849	\$342,630	\$86,241	\$129,224	\$7,782
(5) Forecasted Number of Bills/Luminaires	7,153,236	5,255,472	602,316	97,248	12,600	144	1,185,444	12
(6) Proposed REG Factor - monthly per bill charge		\$0.24	\$0.39	\$3.74	\$27.19	\$598.89	\$0.10	\$648.47
(7) Uncollectible Percentage	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
(8) Proposed RE Growth Factors for Costs of PYE March 2017		\$0.24	\$0.39	\$3.78	\$27.53	\$606.47	\$0.10	\$656.67

- (1) Page 1, Line (7)
- (2) per RIPUC 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, line 10
- (3) Line (2) ÷ Line (2) Total Column
- (4) Line (1) Total Column x Line (3)
- (5) Company forecast for the period October 1, 2016 through September 30, 2017; for Streetlighting number represents individual fixtures
- (6) Line (4) ÷ Line (5), truncated to 2 decimal places
- (7) Uncollectible Percentage approved in RIPUC Docket No. 4323
- (8) Line (6) ÷ (1- Line (7)), truncated to 2 decimal places

**Renewable Energy Growth Program
Estimated Performance-Based Incentive Payments and Market Value
for the Program Year Ending March 31, 2017**

Section 1: Estimated Annual Performance-Based Incentive Payments

Unit	Aggregate Capacity (kW) (a)	Unit Availability Factor (b)	Estimated Twelve-Month Output (kWh) (c)	Tariff Price (\$ per kWh) (d)	Estimated Twelve-Month Cost (e)
(1) Small Scale Solar - HO Operational 2015 Program Year Enrollees	181.9	14%	223,119	\$0.4093	\$91,318
(2) Small Scale Solar - HO Non-Operational 2015 Program Year Enrollees	2,152.8	14%	1,320,082	\$0.4090	\$539,931
(3) Small Scale Solar - HO Estimated Operational in 2016 Program Year - 15 yr tariff	3,770.0	14%	2,311,764	\$0.3799	\$878,209
(4) Small Scale Solar - HO Estimated Operational in 2016 Program Year - 20 yr tariff	780.0	14%	478,296	\$0.3353	\$160,390
(5) Small Scale Solar - TPO Estimated Operational in 2016 Program Year - 15 yr tariff	300.0	14%	183,960	\$0.2836	\$52,163
(6) Small Scale Solar II Estimated Operational in 2016 Program Year - 20 yr tariff	650.0	14%	<u>398,580</u>	\$0.2492	<u>\$99,326</u>
(7) Total			4,915,801		\$1,821,337

Section 2: Estimated Market Value

Class	Estimated kWh Purchased Under Tariffs (f)	Market Energy Proxy (g)	Energy Market Value (h)	REC Proxy (i)	REC Market Value (j)	Total Market Value (k)
(8) Small Scale Solar - 2015 Enrollees	1,543,201	n/a	n/a	\$0.03595	\$55,478	\$55,478
(9) Small Scale Solar - 2016 Enrollees	<u>3,372,600</u>	n/a	n/a	\$0.03595	<u>\$121,245</u>	<u>\$121,245</u>
(10) Total	4,915,801				\$176,723	\$176,723

Section 3: Estimated Net Cost

	Estimated Net Cost (l)
(11) Small Scale Solar - 2015 Enrollees	\$575,771
(12) Small Scale Solar - 2016 Enrollees	<u>\$1,068,843</u>
(13) Total Estimated Above (Below) Market Cost	\$1,644,614

"HO" = Host Owned, 1-10 kW

"TPO" = Third-Party Owned, 1-10 kW

Small Scale Solar II = Commercial 11-25 kW

- (1) Operational Small-Scale Solar Projects from R.E. Growth Small Scale Solar Aggregation Report Filed 4/12/16
(2) Non-Operational Small-Scale Solar Projects from R.E. Growth Small Scale Solar Aggregation Report Filed 4/12/16
(3)-(7) Estimated Operational Projects from Anticipated 2016 Enrollees
(8)-(10) Est. Market Value from 2015 & 2016 Participants
(11)-(13) Est. Net Cost from 2015 & 2016 Participants

- (g) All estimated output for PY16 is Small Scale Solar, so only RECs will be purchased
(h) n/a
(i) REC price estimate based on most recent market information
(j) Column (f) x Column (i)
(k) Column (h) + Column (j)
(l) Column (e) - Column (k)

- (a) Estimated
(b) Estimated
(c) Column (a) x Column (b) x Column (c) x (8,760 ÷ 2) hours; excluding Line (1), which is Column (a) x Column (b) x Column (c) x 8,760 hours
(d) Blended tariff rate, based on weighted averages of tariff types
(e) Column (c) x Column (d)
(f) Column (c)

**Renewable Energy Growth Program
Estimated Administrative Costs
for the Program Year Ending March 31, 2017**

Summary of Estimated Annual Administrative Expenses

(1) Billing System Modifications - Revenue Requirement of Capitalized Costs	\$99,337
(2) Incremental Labor Resources (1)	\$408,340
(3) Estimated SolarWise Program Implementation/Support Costs	\$165,800
(4) DG Board Expense	<u>\$125,000</u>
(5) Total	\$798,477

- (1) Schedule NG-4A, Page 1, sum of Lines (1) through (12)
- (2) Footnote (1) below
- (3) Budget Estimate
- (4) Docket 4356-B, Order No. 22180
- (5) Line (1) + Line (2) + Line (3) + Line (4)

<u>(1) Detail of Incremental Labor Resources</u>	<u>Accounts Processing</u>	<u>Customer Solutions</u>	<u>Customer Solutions</u>	<u>Energy Procurement</u>	<u>Total</u>
(1) Full Time Employees	1	1	2	1	5
(2) Average Salary	\$31,699	\$62,671	\$62,671	\$103,646	
(3) Percent Dedicated to RE Growth	100.00%	50.00%	100.00%	50.00%	
(4) Annual Labor Expense	\$31,699	\$31,336	\$125,342	\$51,823	\$240,200
(5) Overhead rate	70.00%	70.00%	70.00%	70.00%	
(6) Total Annual Incremental Expense	\$53,889	\$53,270	\$213,081	\$88,099	\$408,340

- (1) Estimated
- (2) Estimated
- (3) Estimated
- (4) Line (2) x Line (3)
- (5) Company Labor Overheads, excluding pension & PBOP
- (6) Line (4) x (1 + Line (5))

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket ____
RE Growth Factor Filing
Schedules of Jeanne A. Lloyd
and Adam S. Crary

Schedule NG-3

Renewable Energy Growth Program
Proposed Monthly RE Growth Cost Recovery Reconciling Factors
For the Refund Period October 1, 2016 through September 30, 2017

Section 1: Reconciliation

(1) Total RE Growth Factor Revenue	\$1,213,282
(2) Total RE Growth Expense	<u>\$939,593</u>
(3) RE Growth Reconciliation - Over-Recovery (PPRA)	(\$273,689)
(4) Interest during the Reconciliation Period (I)	<u>(\$885)</u>
(5) Total Amount to be Credited to Customers	(\$274,574)

Section 2: Factor Calculation

	Total	Residential	Small C&I	General C&I	200 kW Demand	3000 kW Demand	Lighting	Propulsion
	<u>(a)</u>	<u>A-16 / A-60</u>	<u>C-06</u>	<u>G-02</u>	<u>B-32 / G-32</u>	<u>B-62 / G-62</u>	<u>S-10 / S-14</u>	<u>X-01</u>
		(b)	(c)	(d)	(e)	(f)	(g)	(h)
(6) RE Growth Program Year 2015 Cost (Over)/Under Recovery	(\$274,574)							
(7) Total Rate Base (\$000s)	\$561,738	\$296,490	\$54,542	\$82,460	\$77,651	\$19,545	\$29,286	\$1,764
(8) Rate Base as Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	5.21%	0.31%
(9) Allocated 2015 Program Year (Over)/Under Recovery	(\$274,574)	(\$144,922)	(\$26,660)	(\$40,306)	(\$37,955)	(\$9,554)	(\$14,315)	(\$862)
(10) Forecasted Number of Bills/Luminaires	7,153,236	5,255,472	602,316	97,248	12,600	144	1,185,444	12
(11) Proposed Class-specific RE Growth Reconciling Factor per Month		(\$0.02)	(\$0.04)	(\$0.41)	(\$3.01)	(\$66.34)	(\$0.01)	(\$71.83)
(12) Uncollectible Percentage		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
(13) Proposed Factor incl. Adjustment for Uncollectible Allowance (1.25%)		(\$0.02)	(\$0.04)	(\$0.41)	(\$3.04)	(\$67.17)	(\$0.01)	(\$72.73)

- (1) Total Revenue from Page 2, Column (e)
(2) Total Expense from Page 3, Line (16)
(3) "PPRA" = Past Period Reconciliation Amount; Line (2) - Line (1)
(4) "I"= Interest during reconciliation period; [(Beginning balance of \$0.00), + (Ending balance of \$273,689) ÷ 2] x average reconciliation period short term interest rate of 0.6466%
(5) Line (3) + Line (4)
(6) Line (5)
(7) RIPUC 4323, Compliance Attachment 4A, (Schedule HSG-1), page 2, Line (10)
(8) Line (7) ÷ Line (7), Column (a)
(9) Line (6) x Line (8)
(10) Company forecast for the period October 1, 2016 through September 30, 2017; for Streetlighting number represents individual fixtures
(11) Line (9) ÷ Line (10), truncated to 2 decimal places
(12) Uncollectible Percentage approved in RIPUC Docket No. 4323
(13) Line (11) ÷ (1- Line (12)), truncated to 2 decimal places

Renewable Energy Growth Program
RE Growth Cost Reconciliation
For the Program Year Ending March 2016

Revenue Summary

		Total RE Growth Factor <u>Revenue</u> (a)	RE Growth Reconciliation Factor <u>Revenue</u> (b)	Net RE Growth <u>Revenue</u> (c)	Uncollectible <u>Revenue</u> (d)	Net RE Growth Revenue Adjusted for <u>Uncollectibles</u> (e)
(1)	Jul-15	\$116,997	\$0	\$116,997	\$1,462	\$115,535
(2)	Aug-15	\$137,665	\$0	\$137,665	\$1,721	\$135,944
(3)	Sep-15	\$136,981	\$0	\$136,981	\$1,712	\$135,269
(4)	Oct-15	\$136,026	\$0	\$136,026	\$1,700	\$134,326
(5)	Nov-15	\$137,112	\$0	\$137,112	\$1,714	\$135,398
(6)	Dec-15	\$147,250	\$0	\$147,250	\$1,841	\$145,409
(7)	Jan-16	\$139,464	\$0	\$139,464	\$1,743	\$137,721
(8)	Feb-16	\$137,811	\$0	\$137,811	\$1,723	\$136,088
(9)	Mar-16	<u>\$139,335</u>	<u>\$0</u>	<u>\$139,335</u>	<u>\$1,742</u>	<u>\$137,593</u>
(10)		\$1,228,640	\$0	\$1,228,640	\$15,358	\$1,213,282

- (a) Company revenue reports
- (b)
- (c) Column (a) - Column (b)
- (d) Column (c) x 1.25%
- (e) Column (c) - Column (d)

Renewable Energy Growth Program
RE Growth Cost Reconciliation
For the Program Year Ending March 2016

Expense Summary

Section 1: Net Performance-Based Incentive Payments

		Total PBI Payments (PBIP) (a)	Net Proceeds from Market Products (PRDCTS) (b)	Net PBI Payments (c)
(1)	Oct-15	\$601	\$0	\$601
(2)	Nov-15	\$3,032	\$0	\$3,032
(3)	Dec-15	\$2,265	\$0	\$2,265
(4)	Jan-16	\$2,007	\$0	\$2,007
(5)	Feb-16	\$5,312	\$0	\$5,312
(6)	Mar-16	<u>\$12,160</u>	<u>\$0</u>	<u>\$12,160</u>
(7)		\$25,378	\$0	\$25,378

Section 2: Administrative Expenses

(8)	Remuneration			\$444
(9)	Billing System Modifications - O&M Expense			\$600,077
(10)	DG Board Invoiced Expenses			\$115,700
(11)	Program Year 1 Ending March 2016 Meter Revenue Requirement			\$400
(12)	EnergySage - SolarWise Invoiced Expenses			\$59,965
(13)	Direct Company Labor Expense w/ OH - Program O&M			\$120,998
(14)	Other Expenses - (Website Upgrades, Printing)			\$16,630
(15)	Total Administrative Expense			<u>\$914,215</u>

Section 3: Total RE Growth Expenses

(16)	Total Expenses			\$939,593
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Column Descriptions:

- (a) Company billing reports
- (b) Company REC Transfer reports
- (c) Column (a) + Column (b)

Line Descriptions

- (7) Sum of Lines (1) through (6)
- (8) Line (7), Column (a) x 1.75%
- (9) per Vendor Invoices
- (10) Paid Invoices to OER related to DG Board Ceiling Price consulting fees
- (11) Schedule NG-4B, Page 1, Column (a), Line (27)
- (12) Paid Invoices to EnergySage related to SolarWise program
- (13) Direct Labor Expense - Company Accounting Records
- (14) Paid Invoices for Misc. Expenses (Website Design upgrades, Printing)
- (15) Sum of Lines (8) through (14)
- (16) Line (7), Column (c) + Line (15)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket ____
RE Growth Factor Filing
Schedules of Jeanne A. Lloyd
and Adam S. Crary

Schedule NG-4A

The Narragansett Electric Company
d/b/a National Grid
RE Growth Program
Revenue Requirement Calculation for Billing System Capital Modifications

		Capital Costs	Accumulated Amortization	Net Plant	Accumulated Deferred Taxes	End of Month Rate Base	Pre Tax Rate of Return	Return & Taxes	Amortization	Monthly Revenue Requirement
		(a)	(b)	(c)=(a)+(b)	(d)	(e)=(c)+(d)	(f)	(g)=(e)x(f)x (1/12)	(h)	(i)=(g)+(h)
1	Apr-16	\$440,739	(\$2,623)	\$438,115	(\$6,440)	\$431,675	9.68%	\$3,484	\$2,623	\$6,107
2	May-16	\$440,739	(\$7,870)	\$432,868	(\$6,466)	\$426,402	9.68%	\$3,441	\$5,247	\$8,688
3	Jun-16	\$440,739	(\$13,117)	\$427,622	(\$6,491)	\$421,131	9.68%	\$3,399	\$5,247	\$8,646
4	Jul-16	\$440,739	(\$18,364)	\$422,375	(\$6,517)	\$415,858	9.68%	\$3,356	\$5,247	\$8,603
5	Aug-16	\$440,739	(\$23,611)	\$417,128	(\$6,542)	\$410,586	9.68%	\$3,314	\$5,247	\$8,561
6	Sep-16	\$440,739	(\$28,858)	\$411,881	(\$6,568)	\$405,313	9.68%	\$3,271	\$5,247	\$8,518
7	Oct-16	\$440,739	(\$34,105)	\$406,634	(\$6,593)	\$400,041	9.68%	\$3,229	\$5,247	\$8,476
8	Nov-16	\$440,739	(\$39,352)	\$401,387	(\$6,619)	\$394,768	9.68%	\$3,186	\$5,247	\$8,433
9	Dec-16	\$440,739	(\$44,599)	\$396,140	(\$6,644)	\$389,496	9.68%	\$3,143	\$5,247	\$8,390
10	Jan-17	\$440,739	(\$49,845)	\$390,893	(\$6,670)	\$384,223	9.68%	\$3,101	\$5,247	\$8,348
11	Feb-17	\$440,739	(\$55,092)	\$385,646	(\$6,695)	\$378,951	9.68%	\$3,058	\$5,247	\$8,305
12	Mar-17	\$440,739	(\$60,339)	\$380,400	(\$6,721)	\$373,679	9.68%	\$3,016	\$5,247	\$8,263
13	Apr-17	\$440,739	(\$65,586)	\$375,153	(\$6,746)	\$368,407	9.68%	\$2,973	\$5,247	\$8,220
14	May-17	\$440,739	(\$70,833)	\$369,906	(\$6,772)	\$363,134	9.68%	\$2,931	\$5,247	\$8,178
15	Jun-17	\$440,739	(\$76,080)	\$364,659	(\$6,797)	\$357,862	9.68%	\$2,888	\$5,247	\$8,135
16	Jul-17	\$440,739	(\$81,327)	\$359,412	(\$6,823)	\$352,589	9.68%	\$2,846	\$5,247	\$8,093
17	Aug-17	\$440,739	(\$86,574)	\$354,165	(\$6,848)	\$347,317	9.68%	\$2,803	\$5,247	\$8,050
18	Sep-17	\$440,739	(\$91,821)	\$348,918	(\$6,874)	\$342,044	9.68%	\$2,760	\$5,247	\$8,007
19	Oct-17	\$440,739	(\$97,067)	\$343,671	(\$6,899)	\$336,772	9.68%	\$2,718	\$5,247	\$7,965
20	Nov-17	\$440,739	(\$102,314)	\$338,424	(\$6,925)	\$331,499	9.68%	\$2,675	\$5,247	\$7,922
21	Dec-17	\$440,739	(\$107,561)	\$333,178	(\$6,950)	\$326,228	9.68%	\$2,633	\$5,247	\$7,880
22	Jan-18	\$440,739	(\$112,808)	\$327,931	(\$6,976)	\$320,955	9.68%	\$2,590	\$5,247	\$7,837
23	Feb-18	\$440,739	(\$118,055)	\$322,684	(\$7,001)	\$315,683	9.68%	\$2,548	\$5,247	\$7,795
24	Mar-18	\$440,739	(\$123,302)	\$317,437	(\$7,027)	\$310,410	9.68%	\$2,505	\$5,247	\$7,752
25	Apr-18	\$440,739	(\$128,549)	\$312,190	(\$7,052)	\$305,138	9.68%	\$2,463	\$5,247	\$7,710
26	May-18	\$440,739	(\$133,796)	\$306,943	(\$7,078)	\$299,865	9.68%	\$2,420	\$5,247	\$7,667
27	Jun-18	\$440,739	(\$139,043)	\$301,696	(\$7,103)	\$294,593	9.68%	\$2,378	\$5,247	\$7,625
28	Jul-18	\$440,739	(\$144,289)	\$296,449	(\$7,129)	\$289,320	9.68%	\$2,335	\$5,247	\$7,582
29	Aug-18	\$440,739	(\$149,536)	\$291,202	(\$7,154)	\$284,048	9.68%	\$2,292	\$5,247	\$7,539
30	Sep-18	\$440,739	(\$154,783)	\$285,956	(\$7,180)	\$278,776	9.68%	\$2,250	\$5,247	\$7,497
31	Oct-18	\$440,739	(\$160,030)	\$280,709	(\$7,205)	\$273,504	9.68%	\$2,207	\$5,247	\$7,454
32	Nov-18	\$440,739	(\$165,277)	\$275,462	(\$7,231)	\$268,231	9.68%	\$2,165	\$5,247	\$7,412
33	Dec-18	\$440,739	(\$170,524)	\$270,215	(\$7,256)	\$262,959	9.68%	\$2,122	\$5,247	\$7,369
34	Jan-19	\$440,739	(\$175,771)	\$264,968	(\$7,282)	\$257,686	9.68%	\$2,080	\$5,247	\$7,327
35	Feb-19	\$440,739	(\$181,018)	\$259,721	(\$7,307)	\$252,414	9.68%	\$2,037	\$5,247	\$7,284
36	Mar-19	\$440,739	(\$186,265)	\$254,474	(\$7,333)	\$247,141	9.68%	\$1,995	\$5,247	\$7,242
37	Apr-19	\$440,739	(\$191,511)	\$249,227	(\$7,269)	\$241,958	9.68%	\$1,953	\$5,247	\$7,200
38	May-19	\$440,739	(\$196,758)	\$243,980	(\$7,116)	\$236,864	9.68%	\$1,912	\$5,247	\$7,159
39	Jun-19	\$440,739	(\$202,005)	\$238,733	(\$6,963)	\$231,770	9.68%	\$1,871	\$5,247	\$7,118
40	Jul-19	\$440,739	(\$207,252)	\$233,487	(\$6,810)	\$226,677	9.68%	\$1,829	\$5,247	\$7,076
41	Aug-19	\$440,739	(\$212,499)	\$228,240	(\$6,657)	\$221,583	9.68%	\$1,788	\$5,247	\$7,035
42	Sep-19	\$440,739	(\$217,746)	\$222,993	(\$6,504)	\$216,489	9.68%	\$1,747	\$5,247	\$6,994
43	Oct-19	\$440,739	(\$222,993)	\$217,746	(\$6,351)	\$211,395	9.68%	\$1,706	\$5,247	\$6,953
44	Nov-19	\$440,739	(\$228,240)	\$212,499	(\$6,198)	\$206,301	9.68%	\$1,665	\$5,247	\$6,912
45	Dec-19	\$440,739	(\$233,487)	\$207,252	(\$6,045)	\$201,207	9.68%	\$1,624	\$5,247	\$6,871
46	Jan-20	\$440,739	(\$238,733)	\$202,005	(\$5,892)	\$196,113	9.68%	\$1,583	\$5,247	\$6,830
47	Feb-20	\$440,739	(\$243,980)	\$196,758	(\$5,739)	\$191,019	9.68%	\$1,542	\$5,247	\$6,789
48	Mar-20	\$440,739	(\$249,227)	\$191,511	(\$5,586)	\$185,925	9.68%	\$1,501	\$5,247	\$6,748
49	Apr-20	\$440,739	(\$254,474)	\$186,265	(\$5,433)	\$180,832	9.68%	\$1,459	\$5,247	\$6,706
50	May-20	\$440,739	(\$259,721)	\$181,018	(\$5,280)	\$175,738	9.68%	\$1,418	\$5,247	\$6,665
51	Jun-20	\$440,739	(\$264,968)	\$175,771	(\$5,127)	\$170,644	9.68%	\$1,377	\$5,247	\$6,624
52	Jul-20	\$440,739	(\$270,215)	\$170,524	(\$4,974)	\$165,550	9.68%	\$1,336	\$5,247	\$6,583
53	Aug-20	\$440,739	(\$275,462)	\$165,277	(\$4,821)	\$160,456	9.68%	\$1,295	\$5,247	\$6,542
54	Sep-20	\$440,739	(\$280,709)	\$160,030	(\$4,668)	\$155,362	9.68%	\$1,254	\$5,247	\$6,501
55	Oct-20	\$440,739	(\$285,956)	\$154,783	(\$4,515)	\$150,268	9.68%	\$1,213	\$5,247	\$6,460
56	Nov-20	\$440,739	(\$291,202)	\$149,536	(\$4,361)	\$145,175	9.68%	\$1,172	\$5,247	\$6,419
57	Dec-20	\$440,739	(\$296,449)	\$144,289	(\$4,208)	\$140,081	9.68%	\$1,131	\$5,247	\$6,378
58	Jan-21	\$440,739	(\$301,696)	\$139,043	(\$4,055)	\$134,988	9.68%	\$1,089	\$5,247	\$6,336
59	Feb-21	\$440,739	(\$306,943)	\$133,796	(\$3,902)	\$129,894	9.68%	\$1,048	\$5,247	\$6,295
60	Mar-21	\$440,739	(\$312,190)	\$128,549	(\$3,749)	\$124,800	9.68%	\$1,007	\$5,247	\$6,254
61	Apr-21	\$440,739	(\$317,437)	\$123,302	(\$3,596)	\$119,706	9.68%	\$966	\$5,247	\$6,213
62	May-21	\$440,739	(\$322,684)	\$118,055	(\$3,443)	\$114,612	9.68%	\$925	\$5,247	\$6,172
63	Jun-21	\$440,739	(\$327,931)	\$112,808	(\$3,290)	\$109,518	9.68%	\$884	\$5,247	\$6,131
64	Jul-21	\$440,739	(\$333,178)	\$107,561	(\$3,137)	\$104,424	9.68%	\$843	\$5,247	\$6,090
65	Aug-21	\$440,739	(\$338,424)	\$102,314	(\$2,984)	\$99,330	9.68%	\$802	\$5,247	\$6,049

The Narragansett Electric Company
d/b/a National Grid
RE Growth Program
Revenue Requirement Calculation for Billing System Capital Modifications (cont.)

		Capital Costs	Accumulated Amortization	Net Plant	Accumulated Deferred Taxes	End of Month Rate Base	Pre Tax Rate of Return	Return & Taxes	Amortization	Monthly Revenue Requirement
		(a)	(b)	(c)=(a)+(b)	(d)	(e)=(c)+(d)	(f)	(g)=(e)x(f)x (1/12)	(h)	(i)=(g)+(h)
66	Sep-21	\$440,739	(\$343,671)	\$97,067	(\$2,831)	\$94,236	9.68%	\$761	\$5,247	\$6,008
67	Oct-21	\$440,739	(\$348,918)	\$91,821	(\$2,678)	\$89,143	9.68%	\$719	\$5,247	\$5,966
68	Nov-21	\$440,739	(\$354,165)	\$86,574	(\$2,525)	\$84,049	9.68%	\$678	\$5,247	\$5,925
69	Dec-21	\$440,739	(\$359,412)	\$81,327	(\$2,372)	\$78,955	9.68%	\$637	\$5,247	\$5,884
70	Jan-22	\$440,739	(\$364,659)	\$76,080	(\$2,219)	\$73,861	9.68%	\$596	\$5,247	\$5,843
71	Feb-22	\$440,739	(\$369,906)	\$70,833	(\$2,066)	\$68,767	9.68%	\$555	\$5,247	\$5,802
72	Mar-22	\$440,739	(\$375,153)	\$65,586	(\$1,913)	\$63,673	9.68%	\$514	\$5,247	\$5,761
73	Apr-22	\$440,739	(\$380,400)	\$60,339	(\$1,760)	\$58,579	9.68%	\$473	\$5,247	\$5,720
74	May-22	\$440,739	(\$385,646)	\$55,092	(\$1,607)	\$53,485	9.68%	\$432	\$5,247	\$5,679
75	Jun-22	\$440,739	(\$390,893)	\$49,845	(\$1,454)	\$48,391	9.68%	\$391	\$5,247	\$5,638
76	Jul-22	\$440,739	(\$396,140)	\$44,599	(\$1,301)	\$43,298	9.68%	\$349	\$5,247	\$5,596
77	Aug-22	\$440,739	(\$401,387)	\$39,352	(\$1,148)	\$38,204	9.68%	\$308	\$5,247	\$5,555
78	Sep-22	\$440,739	(\$406,634)	\$34,105	(\$995)	\$33,110	9.68%	\$267	\$5,247	\$5,514
79	Oct-22	\$440,739	(\$411,881)	\$28,858	(\$842)	\$28,016	9.68%	\$226	\$5,247	\$5,473
80	Nov-22	\$440,739	(\$417,128)	\$23,611	(\$689)	\$22,922	9.68%	\$185	\$5,247	\$5,432
81	Dec-22	\$440,739	(\$422,375)	\$18,364	(\$536)	\$17,828	9.68%	\$144	\$5,247	\$5,391
82	Jan-23	\$440,739	(\$427,622)	\$13,117	(\$383)	\$12,734	9.68%	\$103	\$5,247	\$5,350
83	Feb-23	\$440,739	(\$432,868)	\$7,870	(\$230)	\$7,640	9.68%	\$62	\$5,247	\$5,309
84	Mar-23	\$440,739	(\$438,115)	\$2,623	(\$77)	\$2,546	9.68%	\$21	\$5,247	\$5,268
85	Apr-23	\$440,739	(\$440,739)	(\$0)	\$0	(\$0)	9.68%	\$0	\$2,623	\$2,623

Column Notes:

- (a) Page 8, Line 8
- (b) Page 4 through Page 6, Column (b)
- (d) Page 4 through Page 6, Column (g)
- (f) Page 7, Line 5
- (h) Page 4 through Page 6, Column (a)

The Narragansett Electric Company
d/b/a National Grid
RE Growth Program
Calculation of Tax Depreciation on Billing System Capital Modifications

Line No.			Fiscal Year <u>2017</u> (a)	Fiscal Year <u>2018</u> (b)	Fiscal Year <u>2019</u> (c)	Fiscal Year <u>2020</u> (d)
<u>Bonus Depreciation</u>						
1	Plant Additions	Line 1	\$440,739			
2	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	<u>100.00%</u>			
3	Plant Eligible for Bonus Depreciation	Line 1 x Line 2	\$440,739			
4	Bonus Depreciation Rate (April 2015 - March 2016)		<u>50.00%</u>			
5	Bonus Depreciation	Line 3 x Line 4	\$220,369			
<u>Remaining Tax Depreciation</u>						
6	Plant Additions	Line 1	\$440,739			
7	Less Bonus Depreciation	Line 5	<u>\$220,369</u>			
8	Remaining Plant Additions Subject to SL Tax Depreciation	Line 6 - Line 7	\$220,368	\$220,368	\$220,368	\$220,368
9	3-Year Straight Line Tax Depreciation Rates	Per Tax Department	31.94%	33.33%	33.33%	1.39%
10	Remaining Tax Depreciation	Line 8 x Line 9	\$70,395	\$73,456	\$73,456	\$3,061
11	Cost of Removal		\$0			
12	Annual Tax Depreciation	Sum of Lines 5, 10 and 11	<u>\$290,765</u>	<u>\$73,456</u>	<u>\$73,456</u>	<u>\$3,061</u>

The Narragansett Electric Company
d/b/a National Grid
RE Growth Program
Calculation of Accumulated Deferred Taxes on Billing System Capital Modifications

1	Book cost	\$440,739
2	Book Useful life (months)	84
3	Monthly Book Amortization	\$5,247
4	Tax Useful life (months)	36
5	Monthly Tax Amortization	\$6,121

		Monthly Book Amortization	Accumulated Book Amortization	Monthly Tax Amortization	Accumulated Tax Amortization	Cumulative Book/Tax Timer	Effective Tax Rate	Accumulated Deferred Taxes
		(a)	(b)	(c)	(d)	(e)=(d)-(b)	(f)	(g)=(e)x(f)
6	Apr-16	\$2,623	\$2,623	\$223,430	\$223,430	\$220,807	35.00%	\$6,440
7	May-16	\$5,247	\$7,870	\$6,121	\$229,551	\$221,681	35.00%	\$6,466
8	Jun-16	\$5,247	\$13,117	\$6,121	\$235,673	\$222,556	35.00%	\$6,491
9	Jul-16	\$5,247	\$18,364	\$6,121	\$241,794	\$223,430	35.00%	\$6,517
10	Aug-16	\$5,247	\$23,611	\$6,121	\$247,916	\$224,305	35.00%	\$6,542
11	Sep-16	\$5,247	\$28,858	\$6,121	\$254,037	\$225,179	35.00%	\$6,568
12	Oct-16	\$5,247	\$34,105	\$6,121	\$260,158	\$226,054	35.00%	\$6,593
13	Nov-16	\$5,247	\$39,352	\$6,121	\$266,280	\$226,928	35.00%	\$6,619
14	Dec-16	\$5,247	\$44,599	\$6,121	\$272,401	\$227,802	35.00%	\$6,644
15	Jan-17	\$5,247	\$49,845	\$6,121	\$278,522	\$228,677	35.00%	\$6,670
16	Feb-17	\$5,247	\$55,092	\$6,121	\$284,644	\$229,551	35.00%	\$6,695
17	Mar-17	\$5,247	\$60,339	\$6,121	\$290,765	\$230,426	35.00%	\$6,721
18	Apr-17	\$5,247	\$65,586	\$6,121	\$296,887	\$231,300	35.00%	\$6,746
19	May-17	\$5,247	\$70,833	\$6,121	\$303,008	\$232,175	35.00%	\$6,772
20	Jun-17	\$5,247	\$76,080	\$6,121	\$309,129	\$233,049	35.00%	\$6,797
21	Jul-17	\$5,247	\$81,327	\$6,121	\$315,251	\$233,924	35.00%	\$6,823
22	Aug-17	\$5,247	\$86,574	\$6,121	\$321,372	\$234,798	35.00%	\$6,848
23	Sep-17	\$5,247	\$91,821	\$6,121	\$327,493	\$235,673	35.00%	\$6,874
24	Oct-17	\$5,247	\$97,067	\$6,121	\$333,615	\$236,547	35.00%	\$6,899
25	Nov-17	\$5,247	\$102,314	\$6,121	\$339,736	\$237,422	35.00%	\$6,925
26	Dec-17	\$5,247	\$107,561	\$6,121	\$345,857	\$238,296	35.00%	\$6,950
27	Jan-18	\$5,247	\$112,808	\$6,121	\$351,979	\$239,171	35.00%	\$6,976
28	Feb-18	\$5,247	\$118,055	\$6,121	\$358,100	\$240,045	35.00%	\$7,001
29	Mar-18	\$5,247	\$123,302	\$6,121	\$364,222	\$240,920	35.00%	\$7,027
30	Apr-18	\$5,247	\$128,549	\$6,121	\$370,343	\$241,794	35.00%	\$7,052
31	May-18	\$5,247	\$133,796	\$6,121	\$376,464	\$242,669	35.00%	\$7,078
32	Jun-18	\$5,247	\$139,043	\$6,121	\$382,586	\$243,543	35.00%	\$7,103
33	Jul-18	\$5,247	\$144,289	\$6,121	\$388,707	\$244,418	35.00%	\$7,129
34	Aug-18	\$5,247	\$149,536	\$6,121	\$394,828	\$245,292	35.00%	\$7,154
35	Sep-18	\$5,247	\$154,783	\$6,121	\$400,950	\$246,167	35.00%	\$7,180
36	Oct-18	\$5,247	\$160,030	\$6,121	\$407,071	\$247,041	35.00%	\$7,205
37	Nov-18	\$5,247	\$165,277	\$6,121	\$413,193	\$247,916	35.00%	\$7,231
38	Dec-18	\$5,247	\$170,524	\$6,121	\$419,314	\$248,790	35.00%	\$7,256

**The Narragansett Electric Company
d/b/a National Grid
RI Renewable Energy Growth Program
Calculation of Accumulated Tax Depreciation on Billing System Capital Modifications (cont.)**

		Monthly Book Depreciation (a)	Accumulated Book Depreciation (b)	Monthly Tax Depreciation (c)	Accumulated Tax Depreciation (d)	Cumulative Book/Tax Timer (e)=(d)-(b)	Effective Tax Rate (f)	Accumulated Deferred Taxes (g)=(e)x(f)
39	Jan-19	\$5,247	\$175,771	\$6,121	\$425,435	\$249,665	35.00%	\$7,282
40	Feb-19	\$5,247	\$181,018	\$6,121	\$431,557	\$250,539	35.00%	\$7,307
41	Mar-19	\$5,247	\$186,265	\$6,121	\$437,678	\$251,413	35.00%	\$7,333
42	Apr-19	\$5,247	\$191,511	\$3,061	\$440,739	\$249,227	35.00%	\$7,269
43	May-19	\$5,247	\$196,758	\$0	\$440,739	\$243,980	35.00%	\$7,116
44	Jun-19	\$5,247	\$202,005	\$0	\$440,739	\$238,733	35.00%	\$6,963
45	Jul-19	\$5,247	\$207,252	\$0	\$440,739	\$233,487	35.00%	\$6,810
46	Aug-19	\$5,247	\$212,499	\$0	\$440,739	\$228,240	35.00%	\$6,657
47	Sep-19	\$5,247	\$217,746	\$0	\$440,739	\$222,993	35.00%	\$6,504
48	Oct-19	\$5,247	\$222,993	\$0	\$440,739	\$217,746	35.00%	\$6,351
49	Nov-19	\$5,247	\$228,240	\$0	\$440,739	\$212,499	35.00%	\$6,198
50	Dec-19	\$5,247	\$233,487	\$0	\$440,739	\$207,252	35.00%	\$6,045
51	Jan-20	\$5,247	\$238,733	\$0	\$440,739	\$202,005	35.00%	\$5,892
52	Feb-20	\$5,247	\$243,980	\$0	\$440,739	\$196,758	35.00%	\$5,739
53	Mar-20	\$5,247	\$249,227	\$0	\$440,739	\$191,511	35.00%	\$5,586
54	Apr-20	\$5,247	\$254,474	\$0	\$440,739	\$186,265	35.00%	\$5,433
55	May-20	\$5,247	\$259,721	\$0	\$440,739	\$181,018	35.00%	\$5,280
56	Jun-20	\$5,247	\$264,968	\$0	\$440,739	\$175,771	35.00%	\$5,127
57	Jul-20	\$5,247	\$270,215	\$0	\$440,739	\$170,524	35.00%	\$4,974
58	Aug-20	\$5,247	\$275,462	\$0	\$440,739	\$165,277	35.00%	\$4,821
59	Sep-20	\$5,247	\$280,709	\$0	\$440,739	\$160,030	35.00%	\$4,668
60	Oct-20	\$5,247	\$285,956	\$0	\$440,739	\$154,783	35.00%	\$4,515
61	Nov-20	\$5,247	\$291,202	\$0	\$440,739	\$149,536	35.00%	\$4,361
62	Dec-20	\$5,247	\$296,449	\$0	\$440,739	\$144,289	35.00%	\$4,208
63	Jan-21	\$5,247	\$301,696	\$0	\$440,739	\$139,043	35.00%	\$4,055
64	Feb-21	\$5,247	\$306,943	\$0	\$440,739	\$133,796	35.00%	\$3,902
65	Mar-21	\$5,247	\$312,190	\$0	\$440,739	\$128,549	35.00%	\$3,749
66	Apr-21	\$5,247	\$317,437	\$0	\$440,739	\$123,302	35.00%	\$3,596
67	May-21	\$5,247	\$322,684	\$0	\$440,739	\$118,055	35.00%	\$3,443
68	Jun-21	\$5,247	\$327,931	\$0	\$440,739	\$112,808	35.00%	\$3,290
69	Jul-21	\$5,247	\$333,178	\$0	\$440,739	\$107,561	35.00%	\$3,137
70	Aug-21	\$5,247	\$338,424	\$0	\$440,739	\$102,314	35.00%	\$2,984
71	Sep-21	\$5,247	\$343,671	\$0	\$440,739	\$97,067	35.00%	\$2,831
72	Oct-21	\$5,247	\$348,918	\$0	\$440,739	\$91,821	35.00%	\$2,678
73	Nov-21	\$5,247	\$354,165	\$0	\$440,739	\$86,574	35.00%	\$2,525
74	Dec-21	\$5,247	\$359,412	\$0	\$440,739	\$81,327	35.00%	\$2,372
75	Jan-22	\$5,247	\$364,659	\$0	\$440,739	\$76,080	35.00%	\$2,219
76	Feb-22	\$5,247	\$369,906	\$0	\$440,739	\$70,833	35.00%	\$2,066
77	Mar-22	\$5,247	\$375,153	\$0	\$440,739	\$65,586	35.00%	\$1,913
78	Apr-22	\$5,247	\$380,400	\$0	\$440,739	\$60,339	35.00%	\$1,760
79	May-22	\$5,247	\$385,646	\$0	\$440,739	\$55,092	35.00%	\$1,607
80	Jun-22	\$5,247	\$390,893	\$0	\$440,739	\$49,845	35.00%	\$1,454
81	Jul-22	\$5,247	\$396,140	\$0	\$440,739	\$44,599	35.00%	\$1,301
82	Aug-22	\$5,247	\$401,387	\$0	\$440,739	\$39,352	35.00%	\$1,148

The Narragansett Electric Company
d/b/a National Grid
RI Renewable Energy Growth Program
Calculation of Accumulated Tax Depreciation on Billing System Capital Modifications (cont.)

		Monthly Book Depreciation (a)	Accumulated Book Depreciation (b)	Monthly Tax Depreciation (c)	Accumulated Tax Depreciation (d)	Cumulative Book/Tax Timer (e)=(d)-(b)	Effective Tax Rate (f)	Accumulated Deferred Taxes (g)=(e)x(f)
83	Sep-22	\$5,247	\$406,634	\$0	\$440,739	\$34,105	35.00%	\$995
84	Oct-22	\$5,247	\$411,881	\$0	\$440,739	\$28,858	35.00%	\$842
85	Nov-22	\$5,247	\$417,128	\$0	\$440,739	\$23,611	35.00%	\$689
86	Dec-22	\$5,247	\$422,375	\$0	\$440,739	\$18,364	35.00%	\$536
87	Jan-23	\$5,247	\$427,622	\$0	\$440,739	\$13,117	35.00%	\$383
88	Feb-23	\$5,247	\$432,868	\$0	\$440,739	\$7,870	35.00%	\$230
89	Mar-23	\$5,247	\$438,115	\$0	\$440,739	\$2,623	35.00%	\$77
90	Apr-23	\$2,623	\$440,739	\$0	\$440,739	(\$0)	35.00%	\$0

Column Notes:

- (a) Equals Line 3; Line 6(a) and Line 90(a) = Line 3 x 50%
- (b) Prior month Col (b) + Current month Col (a)
- (c) Equals Line 5; Line 6(c) = (Bonus depreciation per Page 3, Line 5) + Line 5 x 50%; Line 42(c) = Line 5 x 50%
- (d) Prior month Col (d) + Current month Col (c)

Line Notes

- 1 Per Page 8, Line 8
- 3 Line 1 ÷ Line 2
- 5 (Line 1 - Page 2, Line 5) ÷ Line 4

The Narragansett Electric Company
d/b/a National Grid
RI Renewable Energy Growth Program
Weighted Average Cost of Capital on Billing System Capital Modifications

	Weight	Cost	Weighted Cost	Taxes	Pre-Tax Return
	(a)	(b)	(c)	(d)	(e)
1	Short Term Debt	0.76%	0.79%	0.01%	0.01%
2	Long Term Debt	49.95%	4.96%	2.48%	2.48%
3	Preferred Stock	0.15%	4.50%	0.01%	0.01%
4	Equity	49.14%	9.50%	4.67%	2.51%
5		100.00%	7.17%	2.51%	9.68%

Per Compliance Filing in RIPUC Docket 4323, Compliance Attachment 1, Schedule MDL-3-ELEC, page 61

The Narragansett Electric Company
d/b/a National Grid
RI Renewable Energy Growth Program
Summary of Billing System Capital Modification Costs

External Vendor costs:

1	IBM	\$250,287
2	Wipro	\$31,551
3	Subtotal	<u>\$281,838</u>

Internal costs:

4	Labor	\$78,299
5	Overheads	\$60,550
6	AFUDC	<u>\$20,052</u>
7	Subtotal	\$158,900
8	Total Capital Costs	\$440,739

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket ____
RE Growth Factor Filing
Schedules of Jeanne A. Lloyd
and Adam S. Crary

Schedule NG-4B

Renewable Energy Growth Program
Meter Investment Revenue Requirement
Investment During Program Year Ending March 2016

		Program Year Ending March <u>2016</u> (a)	Program Year Ending March <u>2017</u> (b)
(1)	Capital Additions	83 Meters * \$35/meter plus installation	\$6,189
(2)	Total Net Plant in Service	\$6,189	\$6,189
<u>Deferred Tax Calculation:</u>			
(3)	Book Depreciation Rate	Docket 4065, Workpaper NG-RLO-28, Page 8	5.16%
(4)	Book Depreciation	Line (2) * Line (3) * 50%	\$160
(5)	Cumulative Book Depreciation		\$160
<u>Tax Depreciation</u>			
(6)	Capital Additions	Line (2)	\$6,189
(7)	Percentage of Plant Eligible for Bonus Depreciation		100%
(8)	Bonus Depreciation Rate		50%
(9)	Bonus Depreciation	Line (6) * Line (7) * Line (8)	\$3,094
(10)	Remaining Plant Additions subject to MACRS Tax Depreciation	Line (6) - Line (9)	\$3,094
(11)	20 YR MACRS Tax Depreciation Rates		3.750%
(12)	MACRS Tax Depreciation	Line (10) * Line (11)	\$116
(13)	Total Tax Depreciation	Line (9) + Line (12)	\$3,210
(14)	Cumulative Tax Depreciation		\$3,210
(15)	Cumulative Book / Tax Timer	Line (14) - Line (5)	\$3,050
(16)	Effective Tax Rate		35.00%
(17)	Deferred Tax Reserve	Line (15) * Line (16)	\$1,068
<u>Rate Base Calculation:</u>			
(18)	Cumulative Incremental Capital Included in Rate Base	Line (2)	\$6,189
(19)	Accumulated Depreciation	- Line (5)	(\$160)
(20)	Deferred Tax Reserve	- Line (17)	(\$1,068)
(21)	Year End Rate Base	Sum of Lines (18) through (20)	\$4,961
<u>Revenue Requirement Calculation:</u>			
(22)	Average Rate Base	(Prior Year Line (21) + Current Year Line (21)) ÷2	\$2,480
(23)	Pre-Tax ROR		9.68%
(24)	Return and Taxes	Line (22) * Line (23)	\$240
(25)	Book Depreciation	Line (4)	\$160
(26)	Property Taxes	Prop Tax rate of 4.1% per FY17 Elec ISR Plan	\$0
(27)	Annual Revenue Requirement	Sum of Lines (24) through (26)	\$400

1/ Weighted Average Cost of Capital per Settlement Agreement R.I.P.U.C. Docket No. 4323

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	49.95%	4.96%	2.48%		2.48%
Short Term Debt	0.76%	0.79%	0.01%		0.01%
Preferred Stock	0.15%	4.50%	0.01%		0.01%
Common Equity	49.14%	9.50%	4.67%	2.51%	7.18%
	<u>100.00%</u>		<u>7.17%</u>	<u>2.51%</u>	<u>9.68%</u>

Renewable Energy Growth Program
Meter Investment Revenue Requirement
Investment During Program Year Ending March 2017

Program Year
Ending March
2017
(a)

(1)	Capital Additions	547 Meters * \$35/meter plus installation	\$40,785
(2)	Total Net Plant in Service		\$40,785
<u>Deferred Tax Calculation:</u>			
(3)	Book Depreciation Rate	Docket 4065, Workpaper NG-RLO-28, Page 8	5.16%
(4)	Book Depreciation	Line (2) * Line (3) * 50%	\$1,052
(5)	Cumulative Book Depreciation		<u>\$1,052</u>
<u>Tax Depreciation</u>			
(6)	Capital Additions	Line (2)	\$40,785
(7)	Percentage of Plant Eligible for Bonus Depreciation		100%
(8)	Bonus Depreciation Rate		<u>50%</u>
(9)	Bonus Depreciation	Line (6) * Line (7) * Line (8)	\$20,393
(10)	Remaining Plant Additions subject to MACRS Tax Depreciation	Line (6) - Line (9)	\$20,393
(11)	20 YR MACRS Tax Depreciation Rates		<u>3.750%</u>
(12)	MACRS Tax Depreciation	Line (10) * Line (11)	<u>\$765</u>
(13)	Total Tax Depreciation	Line (9) + Line (12)	<u>\$21,157</u>
(14)	Cumulative Tax Depreciation		<u>\$21,157</u>
(15)	Cumulative Book / Tax Timer	Line (14) - Line (5)	\$20,105
(16)	Effective Tax Rate		<u>35.00%</u>
(17)	Deferred Tax Reserve	Line (15) * Line (16)	<u>\$7,037</u>
<u>Rate Base Calculation:</u>			
(18)	Cumulative Incremental Capital Included in Rate Base	Line (2)	\$40,785
(19)	Accumulated Depreciation	- Line (5)	(\$1,052)
(20)	Deferred Tax Reserve	- Line (17)	(\$7,037)
(21)	Year End Rate Base	Sum of Lines (18) through (20)	<u>\$32,696</u>
<u>Revenue Requirement Calculation:</u>			
(22)	Average Rate Base	(Prior Year Line (21) + Current Year Line (21)) ÷2	\$16,348
(23)	Pre-Tax ROR		<u>9.68%</u>
(24)	Return and Taxes	Line (22) * Line (23)	\$1,582
(25)	Book Depreciation	Line (4)	\$1,052
(26)	Property Taxes	Prop Tax rate of 4.1% per FY17 Elec ISR Plan	\$0
(27)	Annual Revenue Requirement		\$2,634

1/ Weighted Average Cost of Capital per Settlement Agreement Docket 4323

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	49.95%	4.96%	2.48%		2.48%
Short Term Debt	0.76%	0.79%	0.01%		0.01%
Preferred Stock	0.15%	4.50%	0.01%		0.01%
Common Equity	49.14%	9.50%	4.67%	2.51%	7.18%
	<u>100.00%</u>		<u>7.17%</u>	<u>2.51%</u>	<u>9.68%</u>

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket ____
RE Growth Factor Filing
Schedules of Jeanne A. Lloyd
and Adam S. Crary

Schedule NG-5

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

Monthly kWh	Present Rates				Proposed Rates				Increase (Decrease)								Percentage of Customers	
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill					
									Delivery	SOS	GET	Total	Delivery	SOS	GET	Total		
150	\$18.47	\$13.02	\$1.31	\$32.80	\$18.52	\$13.02	\$1.31	\$32.85	\$0.05	\$0.00	\$0.00	\$0.05	0.2%	0.0%	0.0%	0.0%	0.2%	13.7%
300	\$31.04	\$26.04	\$2.38	\$59.46	\$31.09	\$26.04	\$2.38	\$59.51	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	17.5%
400	\$39.42	\$34.72	\$3.09	\$77.23	\$39.47	\$34.72	\$3.09	\$77.28	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	11.8%
500	\$47.81	\$43.40	\$3.80	\$95.01	\$47.86	\$43.40	\$3.80	\$95.06	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	10.8%
600	\$56.19	\$52.07	\$4.51	\$112.77	\$56.24	\$52.07	\$4.51	\$112.82	\$0.05	\$0.00	\$0.00	\$0.05	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%
700	\$64.57	\$60.75	\$5.22	\$130.54	\$64.62	\$60.75	\$5.22	\$130.59	\$0.05	\$0.00	\$0.00	\$0.05	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%
1,200	\$106.47	\$104.15	\$8.78	\$219.40	\$106.52	\$104.15	\$8.78	\$219.45	\$0.05	\$0.00	\$0.00	\$0.05	0.0%	0.0%	0.0%	0.0%	0.0%	15.0%
2,000	\$173.52	\$173.58	\$14.46	\$361.56	\$173.57	\$173.58	\$14.46	\$361.61	\$0.05	\$0.00	\$0.00	\$0.05	0.0%	0.0%	0.0%	0.0%	0.0%	14.1%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$5.00	\$5.00
RE Growth Factor	\$0.17	\$0.22
LIHEAP Charge	\$0.73	\$0.73
Transmission Energy Charge	kWh x \$0.02705	\$0.02705
Distribution Energy Charge	kWh x \$0.04283	\$0.04283
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08679	\$0.08679

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

Monthly kWh	Present Rates				Proposed Rates				Increase (Decrease)								Percentage of Customers	
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill					
									Delivery	SOS	GET	Total	Delivery	SOS	GET	Total		
150	\$11.45	\$13.02	\$1.02	\$25.49	\$11.50	\$13.02	\$1.02	\$25.54	\$0.05	\$0.00	\$0.00	\$0.05	0.2%	0.0%	0.0%	0.0%	0.2%	13.7%
300	\$22.00	\$26.04	\$2.00	\$50.04	\$22.05	\$26.04	\$2.00	\$50.09	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	17.5%
400	\$29.04	\$34.72	\$2.66	\$66.42	\$29.09	\$34.72	\$2.66	\$66.47	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	11.8%
500	\$36.07	\$43.40	\$3.31	\$82.78	\$36.12	\$43.40	\$3.31	\$82.83	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	10.8%
600	\$43.10	\$52.07	\$3.97	\$99.14	\$43.15	\$52.07	\$3.97	\$99.19	\$0.05	\$0.00	\$0.00	\$0.05	0.1%	0.0%	0.0%	0.0%	0.1%	9.4%
700	\$50.14	\$60.75	\$4.62	\$115.51	\$50.19	\$60.75	\$4.62	\$115.56	\$0.05	\$0.00	\$0.00	\$0.05	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%
1,200	\$85.31	\$104.15	\$7.89	\$197.35	\$85.36	\$104.15	\$7.90	\$197.41	\$0.05	\$0.00	\$0.01	\$0.06	0.0%	0.0%	0.0%	0.0%	0.0%	15.0%
2,000	\$141.58	\$173.58	\$13.13	\$328.29	\$141.63	\$173.58	\$13.13	\$328.34	\$0.05	\$0.00	\$0.00	\$0.05	0.0%	0.0%	0.0%	0.0%	0.0%	14.1%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$0.00	\$0.00
RE Growth Factor	\$0.17	\$0.22
LIHEAP Charge	\$0.73	\$0.73
Transmission Energy Charge	kWh x \$0.02705	\$0.02705
Distribution Energy Charge	kWh x \$0.02936	\$0.02936
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08679	\$0.08679

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

Monthly kWh	Present Rates				Proposed Rates				Increase (Decrease)							Percentage of Customers	
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill				
									Delivery	SOS	GET	Total	Delivery	SOS	GET		Total
250	\$30.53	\$20.91	\$2.14	\$53.58	\$30.62	\$20.91	\$2.15	\$53.68	\$0.09	\$0.00	\$0.01	\$0.10	0.2%	0.0%	0.0%	0.2%	35.2%
500	\$50.06	\$41.82	\$3.83	\$95.71	\$50.15	\$41.82	\$3.83	\$95.80	\$0.09	\$0.00	\$0.00	\$0.09	0.1%	0.0%	0.0%	0.1%	17.0%
1,000	\$89.13	\$83.64	\$7.20	\$179.97	\$89.22	\$83.64	\$7.20	\$180.06	\$0.09	\$0.00	\$0.00	\$0.09	0.1%	0.0%	0.0%	0.1%	19.0%
1,500	\$128.20	\$125.46	\$10.57	\$264.23	\$128.29	\$125.46	\$10.57	\$264.32	\$0.09	\$0.00	\$0.00	\$0.09	0.0%	0.0%	0.0%	0.0%	9.8%
2,000	\$167.27	\$167.28	\$13.94	\$348.49	\$167.36	\$167.28	\$13.94	\$348.58	\$0.09	\$0.00	\$0.00	\$0.09	0.0%	0.0%	0.0%	0.0%	19.1%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$10.00	\$10.00
RE Growth Factor	\$0.26	\$0.35
LIHEAP Charge	\$0.73	\$0.73
Transmission Energy Charge	kWh x \$0.02566	\$0.02566
Distribution Energy Charge	kWh x \$0.03855	\$0.03855
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	\$0.08364

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 200

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	4000	\$393.59	\$334.56	\$30.34	\$758.49	\$394.26	\$334.56	\$30.37	\$759.19	\$0.67	\$0.00	\$0.03	\$0.70	0.1%	0.0%	0.0%	0.1%
50	10000	\$860.39	\$836.40	\$70.70	\$1,767.49	\$860.70	\$836.40	\$70.71	\$1,767.81	\$0.31	\$0.00	\$0.01	\$0.32	0.0%	0.0%	0.0%	0.0%
100	20000	\$1,638.39	\$1,672.80	\$137.97	\$3,449.16	\$1,638.10	\$1,672.80	\$137.95	\$3,448.85	(\$0.29)	\$0.00	(\$0.02)	(\$0.31)	0.0%	0.0%	0.0%	0.0%
150	30000	\$2,416.39	\$2,509.20	\$205.23	\$5,130.82	\$2,415.50	\$2,509.20	\$205.20	\$5,129.90	(\$0.89)	\$0.00	(\$0.03)	(\$0.92)	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$3.37
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	\$3.59
Transmission Energy Charge	kWh x \$0.01068	\$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	\$5.58
Distribution Energy Charge	kWh x \$0.00734	\$0.00728
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	\$0.08364

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 300

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	6000	\$457.49	\$501.84	\$39.97	\$999.30	\$458.04	\$501.84	\$40.00	\$999.88	\$0.55	\$0.00	\$0.03	\$0.58	0.1%	0.0%	0.0%	0.1%
50	15000	\$1,020.14	\$1,254.60	\$94.78	\$2,369.52	\$1,020.15	\$1,254.60	\$94.78	\$2,369.53	\$0.01	\$0.00	\$0.00	\$0.01	0.0%	0.0%	0.0%	0.0%
100	30000	\$1,957.89	\$2,509.20	\$186.13	\$4,653.22	\$1,957.00	\$2,509.20	\$186.09	\$4,652.29	(\$0.89)	\$0.00	(\$0.04)	(\$0.93)	0.0%	0.0%	0.0%	0.0%
150	45000	\$2,895.64	\$3,763.80	\$277.48	\$6,936.92	\$2,893.85	\$3,763.80	\$277.40	\$6,935.05	(\$1.79)	\$0.00	(\$0.08)	(\$1.87)	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$3.37
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	\$3.59
Transmission Energy Charge	kWh x \$0.01068	\$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	\$5.58
Distribution Energy Charge	kWh x \$0.00734	\$0.00728
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	\$0.08364

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 400

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	8000	\$521.39	\$669.12	\$49.60	\$1,240.11	\$521.82	\$669.12	\$49.62	\$1,240.56	\$0.43	\$0.00	\$0.02	\$0.45	0.0%	0.0%	0.0%	0.0%
50	20000	\$1,179.89	\$1,672.80	\$118.86	\$2,971.55	\$1,179.60	\$1,672.80	\$118.85	\$2,971.25	(\$0.29)	\$0.00	(\$0.01)	(\$0.30)	0.0%	0.0%	0.0%	0.0%
100	40000	\$2,277.39	\$3,345.60	\$234.29	\$5,857.28	\$2,275.90	\$3,345.60	\$234.23	\$5,855.73	(\$1.49)	\$0.00	(\$0.06)	(\$1.55)	0.0%	0.0%	0.0%	0.0%
150	60000	\$3,374.89	\$5,018.40	\$349.72	\$8,743.01	\$3,372.20	\$5,018.40	\$349.61	\$8,740.21	(\$2.69)	\$0.00	(\$0.11)	(\$2.80)	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$3.37
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	\$3.59
Transmission Energy Charge	kWh x \$0.01068	\$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	\$5.58
Distribution Energy Charge	kWh x \$0.00734	\$0.00728
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	\$0.08364

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 500

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	10000	\$585.29	\$836.40	\$59.24	\$1,480.93	\$585.60	\$836.40	\$59.25	\$1,481.25	\$0.31	\$0.00	\$0.01	\$0.32	0.0%	0.0%	0.0%	0.0%
50	25000	\$1,339.64	\$2,091.00	\$142.94	\$3,573.58	\$1,339.05	\$2,091.00	\$142.92	\$3,572.97	(\$0.59)	\$0.00	(\$0.02)	(\$0.61)	0.0%	0.0%	0.0%	0.0%
100	50000	\$2,596.89	\$4,182.00	\$282.45	\$7,061.34	\$2,594.80	\$4,182.00	\$282.37	\$7,059.17	(\$2.09)	\$0.00	(\$0.08)	(\$2.17)	0.0%	0.0%	0.0%	0.0%
150	75000	\$3,854.14	\$6,273.00	\$421.96	\$10,549.10	\$3,850.55	\$6,273.00	\$421.81	\$10,545.36	(\$3.59)	\$0.00	(\$0.15)	(\$3.74)	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$3.37
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	\$3.59
Transmission Energy Charge	kWh x \$0.01068	\$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	\$5.58
Distribution Energy Charge	kWh x \$0.00734	\$0.00728
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	\$0.08364

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 600

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	12000	\$649.19	\$1,003.68	\$68.87	\$1,721.74	\$649.38	\$1,003.68	\$68.88	\$1,721.94	\$0.19	\$0.00	\$0.01	\$0.20	0.0%	0.0%	0.0%	0.0%
50	30000	\$1,499.39	\$2,509.20	\$167.02	\$4,175.61	\$1,498.50	\$2,509.20	\$166.99	\$4,174.69	(\$0.89)	\$0.00	(\$0.03)	(\$0.92)	0.0%	0.0%	0.0%	0.0%
100	60000	\$2,916.39	\$5,018.40	\$330.62	\$8,265.41	\$2,913.70	\$5,018.40	\$330.50	\$8,262.60	(\$2.69)	\$0.00	(\$0.12)	(\$2.81)	0.0%	0.0%	0.0%	0.0%
150	90000	\$4,333.39	\$7,527.60	\$494.21	\$12,355.20	\$4,328.90	\$7,527.60	\$494.02	\$12,350.52	(\$4.49)	\$0.00	(\$0.19)	(\$4.68)	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$3.37
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	\$3.59
Transmission Energy Charge	kWh x \$0.01068	\$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	\$5.58
Distribution Energy Charge	kWh x \$0.00734	\$0.00728
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	\$0.08364

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 200

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
										\$				% of Total Bill			
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	40,000	\$2,907.91	\$1,835.60	\$197.65	\$4,941.16	\$2,914.62	\$1,835.60	\$197.93	\$4,948.15	\$6.71	\$0.00	\$0.28	\$6.99	0.1%	0.0%	0.0%	0.1%
750	150,000	\$11,027.01	\$6,883.50	\$746.27	\$18,656.78	\$11,033.72	\$6,883.50	\$746.55	\$18,663.77	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,000	200,000	\$14,717.51	\$9,178.00	\$995.65	\$24,891.16	\$14,724.22	\$9,178.00	\$995.93	\$24,898.15	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,500	300,000	\$22,098.51	\$13,767.00	\$1,494.40	\$37,359.91	\$22,105.22	\$13,767.00	\$1,494.68	\$37,366.90	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
2,500	500,000	\$36,860.51	\$22,945.00	\$2,491.90	\$62,297.41	\$36,867.22	\$22,945.00	\$2,492.18	\$62,304.40	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$825.00	\$825.00
RE Growth Factor	\$17.78	\$24.49
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.97	\$3.97
Transmission Energy Charge	kWh x \$0.01047	\$0.01047
Distribution Demand Charge-xcs 10 kW	kW x \$4.44	\$4.44
Distribution Energy Charge	kWh x \$0.00736	\$0.00736
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 300

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
										\$				% of Total Bill			
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	60,000	\$3,543.11	\$2,753.40	\$262.35	\$6,558.86	\$3,549.82	\$2,753.40	\$262.63	\$6,565.85	\$6.71	\$0.00	\$0.28	\$6.99	0.1%	0.0%	0.0%	0.1%
750	225,000	\$13,409.01	\$10,325.25	\$988.93	\$24,723.19	\$13,415.72	\$10,325.25	\$989.21	\$24,730.18	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,000	300,000	\$17,893.51	\$13,767.00	\$1,319.19	\$32,979.70	\$17,900.22	\$13,767.00	\$1,319.47	\$32,986.69	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,500	450,000	\$26,862.51	\$20,650.50	\$1,979.71	\$49,492.72	\$26,869.22	\$20,650.50	\$1,979.99	\$49,499.71	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
2,500	750,000	\$44,800.51	\$34,417.50	\$3,300.75	\$82,518.76	\$44,807.22	\$34,417.50	\$3,301.03	\$82,525.75	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$825.00	\$825.00
RE Growth Factor	\$17.78	\$24.49
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.97	\$3.97
Transmission Energy Charge	kWh x \$0.01047	\$0.01047
Distribution Demand Charge-xcs 10 kW	kW x \$4.44	\$4.44
Distribution Energy Charge	kWh x \$0.00736	\$0.00736
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 400

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
										\$				% of Total Bill			
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	80,000	\$4,178.31	\$3,671.20	\$327.06	\$8,176.57	\$4,185.02	\$3,671.20	\$327.34	\$8,183.56	\$6.71	\$0.00	\$0.28	\$6.99	0.1%	0.0%	0.0%	0.1%
750	300,000	\$15,791.01	\$13,767.00	\$1,231.58	\$30,789.59	\$15,797.72	\$13,767.00	\$1,231.86	\$30,796.58	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,000	400,000	\$21,069.51	\$18,356.00	\$1,642.73	\$41,068.24	\$21,076.22	\$18,356.00	\$1,643.01	\$41,075.23	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,500	600,000	\$31,626.51	\$27,534.00	\$2,465.02	\$61,625.53	\$31,633.22	\$27,534.00	\$2,465.30	\$61,632.52	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
2,500	1,000,000	\$52,740.51	\$45,890.00	\$4,109.60	\$102,740.11	\$52,747.22	\$45,890.00	\$4,109.88	\$102,747.10	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$825.00	\$825.00
RE Growth Factor	\$17.78	\$24.49
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.97	\$3.97
Transmission Energy Charge	kWh x \$0.01047	\$0.01047
Distribution Demand Charge-xcs 10 kW	kW x \$4.44	\$4.44
Distribution Energy Charge	kWh x \$0.00736	\$0.00736
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 500

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
										\$				% of Total Bill			
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	100,000	\$4,813.51	\$4,589.00	\$391.77	\$9,794.28	\$4,820.22	\$4,589.00	\$392.05	\$9,801.27	\$6.71	\$0.00	\$0.28	\$6.99	0.1%	0.0%	0.0%	0.1%
750	375,000	\$18,173.01	\$17,208.75	\$1,474.24	\$36,856.00	\$18,179.72	\$17,208.75	\$1,474.52	\$36,862.99	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,000	500,000	\$24,245.51	\$22,945.00	\$1,966.27	\$49,156.78	\$24,252.22	\$22,945.00	\$1,966.55	\$49,163.77	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,500	750,000	\$36,390.51	\$34,417.50	\$2,950.33	\$73,758.34	\$36,397.22	\$34,417.50	\$2,950.61	\$73,765.33	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
2,500	1,250,000	\$60,680.51	\$57,362.50	\$4,918.46	\$122,961.47	\$60,687.22	\$57,362.50	\$4,918.74	\$122,968.46	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$825.00	\$825.00
RE Growth Factor	\$17.78	\$24.49
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.97	\$3.97
Transmission Energy Charge	kWh x \$0.01047	\$0.01047
Distribution Demand Charge-xcs 10 kW	kW x \$4.44	\$4.44
Distribution Energy Charge	kWh x \$0.00736	\$0.00736
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 600

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
										\$				% of Total Bill			
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	120,000	\$5,448.71	\$5,506.80	\$456.48	\$11,411.99	\$5,455.42	\$5,506.80	\$456.76	\$11,418.98	\$6.71	\$0.00	\$0.28	\$6.99	0.1%	0.0%	0.0%	0.1%
750	450,000	\$20,555.01	\$20,650.50	\$1,716.90	\$42,922.41	\$20,561.72	\$20,650.50	\$1,717.18	\$42,929.40	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,000	600,000	\$27,421.51	\$27,534.00	\$2,289.81	\$57,245.32	\$27,428.22	\$27,534.00	\$2,290.09	\$57,252.31	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
1,500	900,000	\$41,154.51	\$41,301.00	\$3,435.65	\$85,891.16	\$41,161.22	\$41,301.00	\$3,435.93	\$85,898.15	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%
2,500	1,500,000	\$68,620.51	\$68,835.00	\$5,727.31	\$143,182.82	\$68,627.22	\$68,835.00	\$5,727.59	\$143,189.81	\$6.71	\$0.00	\$0.28	\$6.99	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$825.00	\$825.00
RE Growth Factor	\$17.78	\$24.49
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.97	\$3.97
Transmission Energy Charge	kWh x \$0.01047	\$0.01047
Distribution Demand Charge-xcs 10 kW	kW x \$4.44	\$4.44
Distribution Energy Charge	kWh x \$0.00736	\$0.00736
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 200

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	600,000	\$55,747.80	\$27,534.00	\$3,470.08	\$86,751.88	\$55,940.03	\$27,534.00	\$3,478.08	\$86,952.11	\$192.23	\$0.00	\$8.00	\$200.23	0.2%	0.0%	0.0%	0.2%
5,000	1,000,000	\$81,347.80	\$45,890.00	\$5,301.58	\$132,539.38	\$81,540.03	\$45,890.00	\$5,309.58	\$132,739.61	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.2%
7,500	1,500,000	\$113,347.80	\$68,835.00	\$7,590.95	\$189,773.75	\$113,540.03	\$68,835.00	\$7,598.96	\$189,973.99	\$192.23	\$0.00	\$8.01	\$200.24	0.1%	0.0%	0.0%	0.1%
10,000	2,000,000	\$145,347.80	\$91,780.00	\$9,880.33	\$247,008.13	\$145,540.03	\$91,780.00	\$9,888.33	\$247,208.36	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.1%
20,000	4,000,000	\$273,347.80	\$183,560.00	\$19,037.83	\$475,945.63	\$273,540.03	\$183,560.00	\$19,045.83	\$476,145.86	\$192.23	\$0.00	\$8.00	\$200.23	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$17,000.00	\$17,000.00
RE Growth Factor	\$347.07	\$539.30
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.22	\$3.22
Transmission Energy Charge	kWh x \$0.01378	\$0.01378
Distribution Demand Charge-xcs 10 kW	kW x \$3.81	\$3.81
Distribution Energy Charge	kWh x \$0.00114	\$0.00114
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 300

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	900,000	\$64,402.80	\$41,301.00	\$4,404.33	\$110,108.13	\$64,595.03	\$41,301.00	\$4,412.33	\$110,308.36	\$192.23	\$0.00	\$8.00	\$200.23	0.2%	0.0%	0.0%	0.2%
5,000	1,500,000	\$95,772.80	\$68,835.00	\$6,858.66	\$171,466.46	\$95,965.03	\$68,835.00	\$6,866.67	\$171,666.70	\$192.23	\$0.00	\$8.01	\$200.24	0.1%	0.0%	0.0%	0.1%
7,500	2,250,000	\$134,985.30	\$103,252.50	\$9,926.58	\$248,164.38	\$135,177.53	\$103,252.50	\$9,934.58	\$248,364.61	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.1%
10,000	3,000,000	\$174,197.80	\$137,670.00	\$12,994.49	\$324,862.29	\$174,390.03	\$137,670.00	\$13,002.50	\$325,062.53	\$192.23	\$0.00	\$8.01	\$200.24	0.1%	0.0%	0.0%	0.1%
20,000	6,000,000	\$331,047.80	\$275,340.00	\$25,266.16	\$631,653.96	\$331,240.03	\$275,340.00	\$25,274.17	\$631,854.20	\$192.23	\$0.00	\$8.01	\$200.24	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$17,000.00	\$17,000.00
RE Growth Factor	\$347.07	\$539.30
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.22	\$3.22
Transmission Energy Charge	kWh x \$0.01378	\$0.01378
Distribution Demand Charge-xcs 10 kW	kW x \$3.81	\$3.81
Distribution Energy Charge	kWh x \$0.00114	\$0.00114
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 400

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	1,200,000	\$73,057.80	\$55,068.00	\$5,338.58	\$133,464.38	\$73,250.03	\$55,068.00	\$5,346.58	\$133,664.61	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.2%
5,000	2,000,000	\$110,197.80	\$91,780.00	\$8,415.74	\$210,393.54	\$110,390.03	\$91,780.00	\$8,423.75	\$210,593.78	\$192.23	\$0.00	\$8.01	\$200.24	0.1%	0.0%	0.0%	0.1%
7,500	3,000,000	\$156,622.80	\$137,670.00	\$12,262.20	\$306,555.00	\$156,815.03	\$137,670.00	\$12,270.21	\$306,755.24	\$192.23	\$0.00	\$8.01	\$200.24	0.1%	0.0%	0.0%	0.1%
10,000	4,000,000	\$203,047.80	\$183,560.00	\$16,108.66	\$402,716.46	\$203,240.03	\$183,560.00	\$16,116.67	\$402,916.70	\$192.23	\$0.00	\$8.01	\$200.24	0.0%	0.0%	0.0%	0.0%
20,000	8,000,000	\$388,747.80	\$367,120.00	\$31,494.49	\$787,362.29	\$388,940.03	\$367,120.00	\$31,502.50	\$787,562.53	\$192.23	\$0.00	\$8.01	\$200.24	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$17,000.00	\$17,000.00
RE Growth Factor	\$347.07	\$539.30
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.22	\$3.22
Transmission Energy Charge	kWh x \$0.01378	\$0.01378
Distribution Demand Charge-xcs 10 kW	kW x \$3.81	\$3.81
Distribution Energy Charge	kWh x \$0.00114	\$0.00114
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 500

Monthly Power kW	kWh	Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	1,500,000	\$81,712.80	\$68,835.00	\$6,272.83	\$156,820.63	\$81,905.03	\$68,835.00	\$6,280.83	\$157,020.86	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.1%
5,000	2,500,000	\$124,622.80	\$114,725.00	\$9,972.83	\$249,320.63	\$124,815.03	\$114,725.00	\$9,980.83	\$249,520.86	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.1%
7,500	3,750,000	\$178,260.30	\$172,087.50	\$14,597.83	\$364,945.63	\$178,452.53	\$172,087.50	\$14,605.83	\$365,145.86	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.1%
10,000	5,000,000	\$231,897.80	\$229,450.00	\$19,222.83	\$480,570.63	\$232,090.03	\$229,450.00	\$19,230.83	\$480,770.86	\$192.23	\$0.00	\$8.00	\$200.23	0.0%	0.0%	0.0%	0.0%
20,000	10,000,000	\$446,447.80	\$458,900.00	\$37,722.83	\$943,070.63	\$446,640.03	\$458,900.00	\$37,730.83	\$943,270.86	\$192.23	\$0.00	\$8.00	\$200.23	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$17,000.00	\$17,000.00
RE Growth Factor	\$347.07	\$539.30
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.22	\$3.22
Transmission Energy Charge	kWh x \$0.01378	\$0.01378
Distribution Demand Charge-xcs 10 kW	kW x \$3.81	\$3.81
Distribution Energy Charge	kWh x \$0.00114	\$0.00114
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 600

Monthly Power kW kWh		Present Rates				Proposed Rates				Increase (Decrease)							
		Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$				% of Total Bill			
										Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	1,800,000	\$90,367.80	\$82,602.00	\$7,207.08	\$180,176.88	\$90,560.03	\$82,602.00	\$7,215.08	\$180,377.11	\$192.23	\$0.00	\$8.00	\$200.23	0.1%	0.0%	0.0%	0.1%
5,000	3,000,000	\$139,047.80	\$137,670.00	\$11,529.91	\$288,247.71	\$139,240.03	\$137,670.00	\$11,537.92	\$288,447.95	\$192.23	\$0.00	\$8.01	\$200.24	0.1%	0.0%	0.0%	0.1%
7,500	4,500,000	\$199,897.80	\$206,505.00	\$16,933.45	\$423,336.25	\$200,090.03	\$206,505.00	\$16,941.46	\$423,536.49	\$192.23	\$0.00	\$8.01	\$200.24	0.0%	0.0%	0.0%	0.0%
10,000	6,000,000	\$260,747.80	\$275,340.00	\$22,336.99	\$558,424.79	\$260,940.03	\$275,340.00	\$22,345.00	\$558,625.03	\$192.23	\$0.00	\$8.01	\$200.24	0.0%	0.0%	0.0%	0.0%
20,000	12,000,000	\$504,147.80	\$550,680.00	\$43,951.16	\$1,098,778.96	\$504,340.03	\$550,680.00	\$43,959.17	\$1,098,979.20	\$192.23	\$0.00	\$8.01	\$200.24	0.0%	0.0%	0.0%	0.0%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$17,000.00	\$17,000.00
RE Growth Factor	\$347.07	\$539.30
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.22	\$3.22
Transmission Energy Charge	kWh x \$0.01378	\$0.01378
Distribution Demand Charge-xcs 10 kW	kW x \$3.81	\$3.81
Distribution Energy Charge	kWh x \$0.00114	\$0.00114
Transition Energy Charge	kWh x (\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107	\$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.04589	\$0.04589