

October 16, 2015

BY HAND DELIVERY AND ELECTRONIC MAIL

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

**RE: Docket 4536-B – Rhode Island Distributed Generation Board
Report and Recommendation Regarding 2015 Renewable Energy Growth
Classes, Ceiling Prices and Targets
Responses to PUC Data Requests – Set 1**

Dear Ms. Massaro:

On behalf of National Grid¹ I have enclosed ten copies of the Company's responses to the first set of data requests issued by the Public Utilities Commission in the above-referenced docket.

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: Docket 4536-B Service List
Leo Wold, Esq.
Steve Scialabba, Division

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

Certificate of Service

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

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



Joanne M. Scanlon

October 16, 2015

Date

Docket No. 4536-A National Grid Tariff Advice Filing for Renewable Energy Growth Program (RE Growth Program) and Solicitation & Enrollment Process Rules for 2015

Docket No. 4536-B RI Distributed Generation Board (DG Board) Report and Recommendation Regarding 2015 Renewable Energy Growth Classes, Ceiling Prices and Targets

Service List updated 9/24/15

| Parties' Name/Address | E-mail | Phone |
|--|--|--------------|
| Celia B. O'Brien, Esq. Raquel J. Webster, Esq. National Grid 280 Melrose Street Providence, RI 02907 | Celia.obrien@nationalgrid.com ; | 781-907-2153 |
| | Raquel.webster@nationalgrid.com ; | 781-907-2121 |
| | Joanne.scanlon@nationalgrid.com ; | |
| | Amy.tabor@nationalgrid.com ; | |
| | Jeanne.lloyd@nationalgrid.com ; | |
| | Corinne.didomenico@nationalgrid.com ; | |
| John K. Habib, Esq. (for NGrid) Keegan Werlin LLP 265 Franklin St. Boston, MA 02110-3113 | jhabib@keeganwerlin.com ; | 617-951-1400 |
| Daniel W. Majcher, Esq. (DB Board) Dept. of Administration Division of Legal Services One Capitol Hill, 4 th Floor Providence, RI 02908 | Daniel.majcher@doa.ri.gov ; | 401-222-8880 |
| | Marion.Gold@energy.ri.gov ; | |
| | Christopher.Kearns@energy.ri.gov ; | |
| | Nicholas.ucci@energy.ri.gov ; | |
| Jon Hagopian, Sr. Counsel Division of Public Utilities and Carriers | Jon.hagopian@dpuc.ri.gov ; | 401-784-4775 |
| | Steve.scialabba@dpuc.ri.gov ; | |
| | Al.contente@dpuc.ri.gov ; | |
| | Joseph.shilling@dpuc.ri.gov ; | |
| Richard Hahn Lacapra Associates 1 Washington Mall, 9th floor Boston, MA 02108 | rhahn@lacapra.com ; | |
| | apereira@lacapra.com ; | |
| Karen Lyons, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903 | Klyons@riag.ri.gov ; | 401-222-2424 |
| | dmacrae@riag.ri.gov ; | |
| | jmunoz@riag.ri.gov ; | |

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4536-B
In Re: Rhode Island DG Board's Budgetary Request for
Solar Quality Assurance Study
Responses to Commission's First Set of Data Requests
Issued on October 8, 2015

COMM 1-1

Request:

Will costs associated with this solar quality assurance study be included in two separate REG Factor filings, one for each REG program year, or will these costs be included in one REG Factor filing, after the expiration of the 2-year contract period?

Response:

The Company will record invoices related to the study in the month during which the invoices are received. Therefore, the study costs may be included in more than one RE Growth reconciliation filing.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4536-B
In Re: Rhode Island DG Board's Budgetary Request for
Solar Quality Assurance Study
Responses to Commission's First Set of Data Requests
Issued on October 8, 2015

COMM 1-2

Request:

If the Company collects from ratepayers the maximum solar study cost of \$125,000 through one REG Factor filing, what would be the monthly bill impact on all customer classes?

Response:

Please see Attachment COMM 1-2. Page 1 shows the estimated increase to the RE Growth Cost Recovery Factor associated with an annual expense of \$125,000. Pages 2 through 7 provide an illustrative bill impact of the resulting Cost recovery Factor for each rate class.

Renewable Energy Growth Program Cost Recovery

Illustrative Incremental Renewable Energy Growth Program Factors for Recovery of Estimated Solar Study Cost

| Line No. | Total (a) | Residential A16 / A60 (b) | Small Commercial & Industrial C-06 (c) | General Commercial & Industrial G-02 (d) | Large Demand B32 / G32 (e) | Optional Large Demand B62 / G62 (f) | Street Lighting S10 / S14 (g) |
|---|--------------|---------------------------------|--|--|----------------------------------|--|-------------------------------------|
| (1) Illustrative Solar Study Cost | \$125,000 | | | | | | |
| (2) Total Rate Base (\$000s) | \$561,737 | \$296,489 | \$54,542 | \$82,460 | \$77,651 | \$21,309 | \$29,286 |
| (3) Percentage of Total | 100.00% | 52.78% | 9.71% | 14.68% | 13.82% | 3.79% | 5.21% |
| (4) Allocated Expense | \$124,988 | \$65,975 | \$12,138 | \$18,350 | \$17,275 | \$4,738 | \$6,513 |
| (5) Forecasted Number of Bills | 7,139,873 | 5,250,413 | 593,944 | 97,341 | 12,593 | 138 | 1,185,444 |
| (6) Illustrative Incremental RE Growth Factor - monthly per bill charge | | \$0.01 | \$0.02 | \$0.18 | \$1.37 | \$34.32 | \$0.00 |
| (7) Uncollectible Percentage | 1.25% | 1.25% | 1.25% | 1.25% | 1.25% | 1.25% | 1.25% |
| (8) Total Illustrative Incremental RE Growth Factor | | \$0.01 | \$0.02 | \$0.18 | \$1.38 | \$34.75 | \$0.00 |
| (9) Current Re Growth Factor | | \$0.17 | \$0.26 | \$2.46 | \$17.78 | \$347.07 | \$0.07 |
| (10) Total Illustrative Re Growth Factor | | \$0.18 | \$0.28 | \$2.64 | \$19.16 | \$381.82 | \$0.07 |

Line Descriptions:

- (1) Maximum Requested Solar Study Cost
- (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) per Company forecast for the period April 1, 2016 through March 31, 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))
- (9) Per current tariff
- (10) Line (8) + Line (9)

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

| Monthly kWh | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | | Percentage of Customers |
|-------------|---------------|----------------|----------|----------------|----------------|----------|---------------------|------------|-------------------------|
| | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total | |
| 150 | \$34.05 | \$16.26 | \$17.79 | \$34.06 | \$16.26 | \$17.80 | \$0.01 | 0.0% | 13.7% |
| 300 | \$61.96 | \$32.52 | \$29.44 | \$61.97 | \$32.52 | \$29.45 | \$0.01 | 0.0% | 17.5% |
| 400 | \$80.55 | \$43.35 | \$37.20 | \$80.56 | \$43.35 | \$37.21 | \$0.01 | 0.0% | 11.8% |
| 500 | \$99.15 | \$54.19 | \$44.96 | \$99.16 | \$54.19 | \$44.97 | \$0.01 | 0.0% | 10.8% |
| 600 | \$117.76 | \$65.03 | \$52.73 | \$117.77 | \$65.03 | \$52.74 | \$0.01 | 0.0% | 9.4% |
| 700 | \$136.36 | \$75.87 | \$60.49 | \$136.37 | \$75.87 | \$60.50 | \$0.01 | 0.0% | 7.7% |
| 1,200 | \$229.37 | \$130.06 | \$99.31 | \$229.38 | \$130.06 | \$99.32 | \$0.01 | 0.0% | 15.0% |
| 2,000 | \$378.19 | \$216.77 | \$161.42 | \$378.20 | \$216.77 | \$161.43 | \$0.01 | 0.0% | 14.1% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$5.00 |
| RE Growth Factor (1) | | \$0.17 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.04091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$5.00 |
| Illustrative RE Growth Factor (2) | | \$0.18 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.04091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Note (1): includes the current RE Growth Factor of \$0.17 per bill

Note (2): includes the illustrative RE Growth Factor of \$0.18 per bill

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

| Monthly kWh | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | | Percentage of Customers |
|-------------|---------------|----------------|----------|----------------|----------------|----------|---------------------|------------|-------------------------|
| | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total | |
| 150 | \$26.74 | \$16.26 | \$10.48 | \$26.75 | \$16.26 | \$10.49 | \$0.01 | 0.0% | 10.7% |
| 300 | \$52.54 | \$32.52 | \$20.02 | \$52.55 | \$32.52 | \$20.03 | \$0.01 | 0.0% | 23.2% |
| 400 | \$69.73 | \$43.35 | \$26.38 | \$69.74 | \$43.35 | \$26.39 | \$0.01 | 0.0% | 14.9% |
| 500 | \$86.93 | \$54.19 | \$32.74 | \$86.94 | \$54.19 | \$32.75 | \$0.01 | 0.0% | 12.2% |
| 600 | \$104.13 | \$65.03 | \$39.10 | \$104.14 | \$65.03 | \$39.11 | \$0.01 | 0.0% | 9.6% |
| 700 | \$121.33 | \$75.87 | \$45.46 | \$121.34 | \$75.87 | \$45.47 | \$0.01 | 0.0% | 7.3% |
| 1,200 | \$207.32 | \$130.06 | \$77.26 | \$207.33 | \$130.06 | \$77.27 | \$0.01 | 0.0% | 12.3% |
| 2,000 | \$344.92 | \$216.77 | \$128.15 | \$344.93 | \$216.77 | \$128.16 | \$0.01 | 0.0% | 9.8% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$0.00 |
| RE Growth Factor (1) | | \$0.17 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.02744 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$0.00 |
| Illustrative RE Growth Factor (2) | | \$0.18 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.02744 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Note (1): includes the current RE Growth Factor of \$0.17 per bill

Note (2): includes the illustrative RE Growth Factor of \$0.18 per bill

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

| Monthly kWh | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | | Percentage of Customers |
|-------------|---------------|----------------|----------|----------------|----------------|----------|---------------------|------------|-------------------------|
| | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total | |
| 250 | \$52.50 | \$23.40 | \$29.10 | \$52.53 | \$23.40 | \$29.13 | \$0.03 | 0.1% | 35.2% |
| 500 | \$93.56 | \$46.80 | \$46.76 | \$93.58 | \$46.80 | \$46.78 | \$0.02 | 0.0% | 17.0% |
| 1,000 | \$175.66 | \$93.59 | \$82.07 | \$175.68 | \$93.59 | \$82.09 | \$0.02 | 0.0% | 19.0% |
| 1,500 | \$257.78 | \$140.39 | \$117.39 | \$257.80 | \$140.39 | \$117.41 | \$0.02 | 0.0% | 9.8% |
| 2,000 | \$339.89 | \$187.19 | \$152.70 | \$339.91 | \$187.19 | \$152.72 | \$0.02 | 0.0% | 19.1% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$10.00 |
| RE Growth Factor (1) | | \$0.26 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02072 |
| Distribution Energy Charge | kWh x | \$0.03694 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$10.00 |
| Illustrative RE Growth Factor (2) | | \$0.28 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02072 |
| Distribution Energy Charge | kWh x | \$0.03694 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Note (1): includes the current RE Growth Factor of \$0.26 per bill

Note (2): includes the illustrative RE Growth Factor of \$0.28 per bill

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

Hours Use: 200

| Monthly Power | | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | |
|---------------|--------|---------------|----------------|------------|----------------|----------------|------------|---------------------|------------|
| kW | kWh | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total |
| 20 | 4,000 | \$744.68 | \$374.38 | \$370.30 | \$744.87 | \$374.38 | \$370.49 | \$0.19 | 0.0% |
| 50 | 10,000 | \$1,727.49 | \$935.94 | \$791.55 | \$1,727.68 | \$935.94 | \$791.74 | \$0.19 | 0.0% |
| 100 | 20,000 | \$3,365.52 | \$1,871.88 | \$1,493.64 | \$3,365.70 | \$1,871.88 | \$1,493.82 | \$0.18 | 0.0% |
| 150 | 30,000 | \$5,003.53 | \$2,807.81 | \$2,195.72 | \$5,003.72 | \$2,807.81 | \$2,195.91 | \$0.19 | 0.0% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$135.00 |
| RE Growth Factor (1) | | \$2.46 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.02 |
| Transmission Energy Charge | kWh x | \$0.00894 |
| Distribution Demand Charge-xcs 10 kW | kW x | \$5.23 |
| Distribution Energy Charge | kWh x | \$0.00707 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$135.00 |
| Illustrative RE Growth Factor (2) | | \$2.64 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.02 |
| Transmission Energy Charge | kWh x | \$0.00894 |
| Distribution Demand Charge-xcs 10 kW | kW x | \$5.23 |
| Distribution Energy Charge | kWh x | \$0.00707 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Note (1): includes the current RE Growth Factor of \$2.46 per bill

Note (2): includes the illustrative RE Growth Factor of \$2.64 per bill

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

Hours Use: 200

| Monthly Power | | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | |
|---------------|---------|---------------|----------------|-------------|----------------|----------------|-------------|---------------------|------------|
| kW | kWh | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total |
| 200 | 40,000 | \$5,388.66 | \$2,686.67 | \$2,701.99 | \$5,390.10 | \$2,686.67 | \$2,703.43 | \$1.44 | 0.0% |
| 750 | 150,000 | \$20,140.11 | \$10,075.00 | \$10,065.11 | \$20,141.55 | \$10,075.00 | \$10,066.55 | \$1.44 | 0.0% |
| 1,000 | 200,000 | \$26,845.32 | \$13,433.33 | \$13,411.99 | \$26,846.76 | \$13,433.33 | \$13,413.43 | \$1.44 | 0.0% |
| 1,500 | 300,000 | \$40,255.74 | \$20,150.00 | \$20,105.74 | \$40,257.18 | \$20,150.00 | \$20,107.18 | \$1.44 | 0.0% |
| 2,500 | 500,000 | \$67,076.57 | \$33,583.33 | \$33,493.24 | \$67,078.01 | \$33,583.33 | \$33,494.68 | \$1.44 | 0.0% |

Present Rates

| | | |
|---------------------------------------|-------|-------------|
| Customer Charge | | \$825.00 |
| RE Growth Factor (1) | | \$17.78 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.40 |
| Transmission Energy Charge | kWh x | \$0.00930 |
| Distribution Demand Charge - > 200 kW | kW x | \$4.10 |
| Distribution Energy Charge | kWh x | \$0.00732 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4% |
| Standard Offer Charge | kWh x | \$0.06448 |

Proposed Rates

| | | |
|---------------------------------------|-------|-------------|
| Customer Charge | | \$825.00 |
| Illustrative RE Growth Factor (2) | | \$19.16 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.40 |
| Transmission Energy Charge | kWh x | \$0.00930 |
| Distribution Demand Charge - > 200 kW | kW x | \$4.10 |
| Distribution Energy Charge | kWh x | \$0.00732 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4% |
| Standard Offer Charge | kWh x | \$0.06448 |

Note (1): includes the current RE Growth Factor of \$17.78 per bill

Note (2): includes the illustrative RE Growth Factor of \$19.16 per bill

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

Hours Use: 200

| Monthly Power | | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | |
|---------------|-----------|---------------|----------------|--------------|----------------|----------------|--------------|---------------------|------------|
| kW | kWh | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total |
| 3,000 | 600,000 | \$94,195.63 | \$40,300.00 | \$53,895.63 | \$94,231.82 | \$40,300.00 | \$53,931.82 | \$36.19 | 0.0% |
| 5,000 | 1,000,000 | \$144,945.63 | \$67,166.67 | \$77,778.96 | \$144,981.83 | \$67,166.67 | \$77,815.16 | \$36.20 | 0.0% |
| 7,500 | 1,500,000 | \$208,383.13 | \$100,750.00 | \$107,633.13 | \$208,419.32 | \$100,750.00 | \$107,669.32 | \$36.19 | 0.0% |
| 10,000 | 2,000,000 | \$271,820.62 | \$134,333.33 | \$137,487.29 | \$271,856.82 | \$134,333.33 | \$137,523.49 | \$36.20 | 0.0% |
| 20,000 | 4,000,000 | \$525,570.63 | \$268,666.67 | \$256,903.96 | \$525,606.83 | \$268,666.67 | \$256,940.16 | \$36.20 | 0.0% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$17,000.00 |
| RE Growth Factor (1) | | \$347.07 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.22 |
| Transmission Energy Charge | kWh x | \$0.01247 |
| Distribution Demand Charge | kW x | \$3.54 |
| Distribution Energy Charge | kWh x | \$0.00091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |

Gross Earnings Tax 4%

Standard Offer Charge kWh x \$0.06448

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$17,000.00 |
| Illustrative RE Growth Factor (2) | | \$381.82 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.22 |
| Transmission Energy Charge | kWh x | \$0.01247 |
| Distribution Demand Charge | kW x | \$3.54 |
| Distribution Energy Charge | kWh x | \$0.00091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kW x | \$0.00232 |

Gross Earnings Tax 4%

Standard Offer Charge kWh x \$0.06448

Note (1): includes the current RE Growth Factor of \$347.07 per bill

Note (2): includes the illustrative RE Growth Factor of \$381.82 per bill

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4536-B
In Re: Rhode Island DG Board's Budgetary Request for
Solar Quality Assurance Study
Responses to Commission's First Set of Data Requests
Issued on October 8, 2015

COMM 1-3

Request:

What would be the monthly bill impact on all customer classes of two REG Factor filings, each including solar study costs of \$62,500?

Response:

Please see Attachment COMM 1-3. Page 1 shows the estimated increase to the RE Growth Cost Recovery Factor associated with an annual expense of \$62,500 per year for two years. Pages 2 through 7 provide an illustrative bill impact of the resulting Cost recovery Factor for each rate class.

Renewable Energy Growth Program Cost Recovery

Illustrative Incremental Renewable Energy Growth Program Factors for Recovery of Estimated Solar Study Cost

| Line No. | Total (a) | Residential A16 / A60 (b) | Small Commercial & Industrial C-06 (c) | General Commercial & Industrial G-02 (d) | Large Demand B32 / G32 (e) | Optional Large Demand B62 / G62 (f) | Street Lighting S10 / S14 (g) |
|---|--------------|---------------------------------|--|--|----------------------------------|--|-------------------------------------|
| (1) Illustrative Solar Study Cost | \$62,500 | | | | | | |
| (2) Total Rate Base (\$000s) | \$561,737 | \$296,489 | \$54,542 | \$82,460 | \$77,651 | \$21,309 | \$29,286 |
| (3) Percentage of Total | 100.00% | 52.78% | 9.71% | 14.68% | 13.82% | 3.79% | 5.21% |
| (4) Allocated Expense | \$62,494 | \$32,988 | \$6,069 | \$9,175 | \$8,638 | \$2,369 | \$3,256 |
| (5) Forecasted Number of Bills | 7,139,873 | 5,250,413 | 593,944 | 97,341 | 12,593 | 138 | 1,185,444 |
| (6) Illustrative Incremental RE Growth Factor - monthly per bill charge | | \$0.00 | \$0.01 | \$0.09 | \$0.68 | \$17.16 | \$0.00 |
| (7) Uncollectible Percentage | 1.25% | 1.25% | 1.25% | 1.25% | 1.25% | 1.25% | 1.25% |
| (8) Total Illustrative Incremental RE Growth Factor | | \$0.00 | \$0.01 | \$0.09 | \$0.68 | \$17.37 | \$0.00 |
| (9) Current Re Growth Factor | | \$0.17 | \$0.26 | \$2.46 | \$17.78 | \$347.07 | \$0.07 |
| (10) Total Illustrative Re Growth Factor | | \$0.17 | \$0.27 | \$2.55 | \$18.46 | \$364.44 | \$0.07 |

Line Descriptions:

- (1) 50% of Requested Solar Study Cost
- (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) per Company forecast for the period April 1, 2016 through March 31, 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))
- (9) Per current tariff
- (10) Line (8) + Line (9)

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

| Monthly kWh | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | | Percentage of Customers |
|-------------|---------------|----------------|----------|----------------|----------------|----------|---------------------|------------|-------------------------|
| | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total | |
| 150 | \$34.05 | \$16.26 | \$17.79 | \$34.05 | \$16.26 | \$17.79 | \$0.00 | 0.0% | 13.7% |
| 300 | \$61.96 | \$32.52 | \$29.44 | \$61.96 | \$32.52 | \$29.44 | \$0.00 | 0.0% | 17.5% |
| 400 | \$80.55 | \$43.35 | \$37.20 | \$80.55 | \$43.35 | \$37.20 | \$0.00 | 0.0% | 11.8% |
| 500 | \$99.15 | \$54.19 | \$44.96 | \$99.15 | \$54.19 | \$44.96 | \$0.00 | 0.0% | 10.8% |
| 600 | \$117.76 | \$65.03 | \$52.73 | \$117.76 | \$65.03 | \$52.73 | \$0.00 | 0.0% | 9.4% |
| 700 | \$136.36 | \$75.87 | \$60.49 | \$136.36 | \$75.87 | \$60.49 | \$0.00 | 0.0% | 7.7% |
| 1,200 | \$229.37 | \$130.06 | \$99.31 | \$229.37 | \$130.06 | \$99.31 | \$0.00 | 0.0% | 15.0% |
| 2,000 | \$378.19 | \$216.77 | \$161.42 | \$378.19 | \$216.77 | \$161.42 | \$0.00 | 0.0% | 14.1% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$5.00 |
| RE Growth Factor (1) | | \$0.17 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.04091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$5.00 |
| Illustrative RE Growth Factor (2) | | \$0.17 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.04091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Note (1): includes the current RE Growth Factor of \$0.17 per bill

Note (2): includes the illustrative RE Growth Factor of \$0.17 per bill

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

| Monthly kWh | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | | Percentage of Customers |
|-------------|---------------|----------------|----------|----------------|----------------|----------|---------------------|------------|-------------------------|
| | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total | |
| 150 | \$26.74 | \$16.26 | \$10.48 | \$26.74 | \$16.26 | \$10.48 | \$0.00 | 0.0% | 10.7% |
| 300 | \$52.54 | \$32.52 | \$20.02 | \$52.54 | \$32.52 | \$20.02 | \$0.00 | 0.0% | 23.2% |
| 400 | \$69.73 | \$43.35 | \$26.38 | \$69.73 | \$43.35 | \$26.38 | \$0.00 | 0.0% | 14.9% |
| 500 | \$86.93 | \$54.19 | \$32.74 | \$86.93 | \$54.19 | \$32.74 | \$0.00 | 0.0% | 12.2% |
| 600 | \$104.13 | \$65.03 | \$39.10 | \$104.13 | \$65.03 | \$39.10 | \$0.00 | 0.0% | 9.6% |
| 700 | \$121.33 | \$75.87 | \$45.46 | \$121.33 | \$75.87 | \$45.46 | \$0.00 | 0.0% | 7.3% |
| 1,200 | \$207.32 | \$130.06 | \$77.26 | \$207.32 | \$130.06 | \$77.26 | \$0.00 | 0.0% | 12.3% |
| 2,000 | \$344.92 | \$216.77 | \$128.15 | \$344.92 | \$216.77 | \$128.15 | \$0.00 | 0.0% | 9.8% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$0.00 |
| RE Growth Factor (1) | | \$0.17 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.02744 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$0.00 |
| Illustrative RE Growth Factor (2) | | \$0.17 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02348 |
| Distribution Energy Charge | kWh x | \$0.02744 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.10405 |

Note (1): includes the current RE Growth Factor of \$0.17 per bill

Note (2): includes the illustrative RE Growth Factor of \$0.17 per bill

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

| Monthly kWh | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | | Percentage of Customers |
|-------------|---------------|----------------|----------|----------------|----------------|----------|---------------------|------------|-------------------------|
| | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total | |
| 250 | \$52.50 | \$23.40 | \$29.10 | \$52.51 | \$23.40 | \$29.11 | \$0.01 | 0.0% | 35.2% |
| 500 | \$93.56 | \$46.80 | \$46.76 | \$93.57 | \$46.80 | \$46.77 | \$0.01 | 0.0% | 17.0% |
| 1,000 | \$175.66 | \$93.59 | \$82.07 | \$175.67 | \$93.59 | \$82.08 | \$0.01 | 0.0% | 19.0% |
| 1,500 | \$257.78 | \$140.39 | \$117.39 | \$257.79 | \$140.39 | \$117.40 | \$0.01 | 0.0% | 9.8% |
| 2,000 | \$339.89 | \$187.19 | \$152.70 | \$339.90 | \$187.19 | \$152.71 | \$0.01 | 0.0% | 19.1% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$10.00 |
| RE Growth Factor (1) | | \$0.26 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02072 |
| Distribution Energy Charge | kWh x | \$0.03694 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$10.00 |
| Illustrative RE Growth Factor (2) | | \$0.27 |
| LIHEAP Charge | | \$0.73 |
| Transmission Energy Charge | kWh x | \$0.02072 |
| Distribution Energy Charge | kWh x | \$0.03694 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Note (1): includes the current RE Growth Factor of \$0.26 per bill

Note (2): includes the illustrative RE Growth Factor of \$0.27 per bill

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

Hours Use: 200

| Monthly Power | | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | |
|---------------|--------|---------------|----------------|------------|----------------|----------------|------------|---------------------|------------|
| kW | kWh | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total |
| 20 | 4,000 | \$744.68 | \$374.38 | \$370.30 | \$744.78 | \$374.38 | \$370.40 | \$0.10 | 0.0% |
| 50 | 10,000 | \$1,727.49 | \$935.94 | \$791.55 | \$1,727.59 | \$935.94 | \$791.65 | \$0.10 | 0.0% |
| 100 | 20,000 | \$3,365.52 | \$1,871.88 | \$1,493.64 | \$3,365.61 | \$1,871.88 | \$1,493.73 | \$0.09 | 0.0% |
| 150 | 30,000 | \$5,003.53 | \$2,807.81 | \$2,195.72 | \$5,003.62 | \$2,807.81 | \$2,195.81 | \$0.09 | 0.0% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$135.00 |
| RE Growth Factor (1) | | \$2.46 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.02 |
| Transmission Energy Charge | kWh x | \$0.00894 |
| Distribution Demand Charge-xcs 10 kW | kW x | \$5.23 |
| Distribution Energy Charge | kWh x | \$0.00707 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$135.00 |
| Illustrative RE Growth Factor (2) | | \$2.55 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.02 |
| Transmission Energy Charge | kWh x | \$0.00894 |
| Distribution Demand Charge-xcs 10 kW | kW x | \$5.23 |
| Distribution Energy Charge | kWh x | \$0.00707 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4.00% |
| Standard Offer Charge | kWh x | \$0.08985 |

Note (1): includes the current RE Growth Factor of \$2.46 per bill

Note (2): includes the illustrative RE Growth Factor of \$2.55 per bill

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

Hours Use: 200

| Monthly Power | | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | |
|---------------|---------|---------------|----------------|-------------|----------------|----------------|-------------|---------------------|------------|
| kW | kWh | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total |
| 200 | 40,000 | \$5,388.66 | \$2,686.67 | \$2,701.99 | \$5,389.37 | \$2,686.67 | \$2,702.70 | \$0.71 | 0.0% |
| 750 | 150,000 | \$20,140.11 | \$10,075.00 | \$10,065.11 | \$20,140.82 | \$10,075.00 | \$10,065.82 | \$0.71 | 0.0% |
| 1,000 | 200,000 | \$26,845.32 | \$13,433.33 | \$13,411.99 | \$26,846.03 | \$13,433.33 | \$13,412.70 | \$0.71 | 0.0% |
| 1,500 | 300,000 | \$40,255.74 | \$20,150.00 | \$20,105.74 | \$40,256.45 | \$20,150.00 | \$20,106.45 | \$0.71 | 0.0% |
| 2,500 | 500,000 | \$67,076.57 | \$33,583.33 | \$33,493.24 | \$67,077.28 | \$33,583.33 | \$33,493.95 | \$0.71 | 0.0% |

Present Rates

| | | |
|---------------------------------------|-------|-------------|
| Customer Charge | | \$825.00 |
| RE Growth Factor (1) | | \$17.78 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.40 |
| Transmission Energy Charge | kWh x | \$0.00930 |
| Distribution Demand Charge - > 200 kW | kW x | \$4.10 |
| Distribution Energy Charge | kWh x | \$0.00732 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4% |
| Standard Offer Charge | kWh x | \$0.06448 |

Proposed Rates

| | | |
|---------------------------------------|-------|-------------|
| Customer Charge | | \$825.00 |
| Illustrative RE Growth Factor (2) | | \$18.46 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.40 |
| Transmission Energy Charge | kWh x | \$0.00930 |
| Distribution Demand Charge - > 200 kW | kW x | \$4.10 |
| Distribution Energy Charge | kWh x | \$0.00732 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |
| Gross Earnings Tax | | 4% |
| Standard Offer Charge | kWh x | \$0.06448 |

Note (1): includes the current RE Growth Factor of \$17.78 per bill

Note (2): includes the illustrative RE Growth Factor of \$18.46 per bill

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

Hours Use: 200

| Monthly Power | | Present Rates | | | Proposed Rates | | | Increase/(Decrease) | |
|---------------|-----------|---------------|----------------|--------------|----------------|----------------|--------------|---------------------|------------|
| kW | kWh | Total | Standard Offer | Delivery | Total | Standard Offer | Delivery | Amount | % of Total |
| 3,000 | 600,000 | \$94,195.63 | \$40,300.00 | \$53,895.63 | \$94,213.72 | \$40,300.00 | \$53,913.72 | \$18.09 | 0.0% |
| 5,000 | 1,000,000 | \$144,945.63 | \$67,166.67 | \$77,778.96 | \$144,963.72 | \$67,166.67 | \$77,797.05 | \$18.09 | 0.0% |
| 7,500 | 1,500,000 | \$208,383.13 | \$100,750.00 | \$107,633.13 | \$208,401.22 | \$100,750.00 | \$107,651.22 | \$18.09 | 0.0% |
| 10,000 | 2,000,000 | \$271,820.62 | \$134,333.33 | \$137,487.29 | \$271,838.72 | \$134,333.33 | \$137,505.39 | \$18.10 | 0.0% |
| 20,000 | 4,000,000 | \$525,570.63 | \$268,666.67 | \$256,903.96 | \$525,588.72 | \$268,666.67 | \$256,922.05 | \$18.09 | 0.0% |

Present Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$17,000.00 |
| RE Growth Factor (1) | | \$347.07 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.22 |
| Transmission Energy Charge | kWh x | \$0.01247 |
| Distribution Demand Charge | kW x | \$3.54 |
| Distribution Energy Charge | kWh x | \$0.00091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kWh x | \$0.00232 |

Gross Earnings Tax 4%

Standard Offer Charge kWh x \$0.06448

Proposed Rates

| | | |
|--------------------------------------|-------|-------------|
| Customer Charge | | \$17,000.00 |
| Illustrative RE Growth Factor (2) | | \$364.44 |
| LIHEAP Charge | | \$0.73 |
| Transmission Demand Charge | kW x | \$3.22 |
| Transmission Energy Charge | kWh x | \$0.01247 |
| Distribution Demand Charge | kW x | \$3.54 |
| Distribution Energy Charge | kWh x | \$0.00091 |
| Transition Energy Charge | kWh x | (\$0.00201) |
| Energy Efficiency Program Charge | kWh x | \$0.00983 |
| Renewable Energy Distribution Charge | kW x | \$0.00232 |

Gross Earnings Tax 4%

Standard Offer Charge kWh x \$0.06448

Note (1): includes the current RE Growth Factor of \$347.07 per bill

Note (2): includes the illustrative RE Growth Factor of \$364.44 per bill