

January 25, 2016

**BY HAND DELIVERY AND ELECTRONIC MAIL**

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

**RE: Docket 4589-B – Rhode Island Distributed Generation Board  
Report and Recommendation Regarding 2016 Renewable Energy Growth  
Classes, Ceiling Prices and Targets  
National Grid Response to Record Request**

Dear Ms. Massaro:

I have enclosed ten copies of National Grid's<sup>1</sup> response to the record request issued at the Public Utilities Commission's evidentiary hearing on January 14, 2016 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 4589-B Service List  
Leo Wold, Esq.  
Steve Scialabba, Division

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid (National Grid or 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.

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



\_\_\_\_\_  
Joanne M. Scanlon

January 25, 2016  
Date

**Docket No. 4589-A National Grid 2016 Renewable Energy Growth Program Tariff and Rule Changes and Proposed SolarWise Program; and**

**Docket No. 4589-B RI Distributed Generation Board (DG Board) Report and Recommendation Regarding 2016 Renewable Energy Growth Classes, Ceiling Prices and Targets**

**Service List updated 12/23/15**

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The Narragansett Electric Company

d/b/a National Grid

RIPUC Docket No. 4589-B

In Re: Report and Recommendation of RI Distributed Generation Board on  
2016 Renewable Energy Growth Ceiling Prices, Classes and Targets  
Response to Record Request issued at the Commission's Evidentiary Hearing  
On January 14, 2016

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Record Request 1

Request:

Provide the estimated bill impact of the 2016 ceiling prices, as currently proposed, both with and without the Non-Profit Affordable Housing Income Eligible Pilot, for all customer classes.

Response:

Please see Attachment COMM-RR-1 for an illustrative estimate by customer class of the incremental RE Growth Factor charge for the second year of the RE Growth Program (April 2016 – March 2017) both with and without the Non-Profit Affordable Housing Income Eligible Pilot program. The illustrative estimate assumes that all 40MW of projects are installed and operational for the entire year illustrated, rather than brought on line as they are constructed. For a residential customer using 500 kWh in one month, the incremental RE Growth Factor increase, including the Pilot Program, is \$0.66, or 0.7%. For the same customer, the incremental RE Growth Factor increase, excluding the pilot program, would be \$0.65, or 0.7%.

National Grid  
RE Growth Program Year 2  
Incremental RE Growth Factors Comparison  
With and Without Non-Profit and Affordable Housing Pilot Program

	Residential <u>A16 / A60</u> (a)	Small Commercial & Industrial <u>C-06</u> (b)	General Commercial & Industrial <u>G-02</u> (c)	Large Demand <u>B32 / G32</u> (d)	Optional Large Demand <u>B62 / G62</u> (e)	Street Lighting <u>S10 / S14</u> (f)
(1) Total Illustrative Incremental RE Growth Factor With NP & Aff. Housing	\$0.66	\$1.09	\$10.11	\$73.65	\$1,843.38	\$0.29
(2) Total Illustrative Incremental RE Growth Factor Without NP & Aff. Housing	\$0.65	\$1.07	\$9.90	\$72.08	\$1,804.04	\$0.28
(3) Change	\$0.01	\$0.02	\$0.21	\$1.57	\$39.34	\$0.01

National Grid  
RE Growth Program Year 2  
Incremental RE Growth Factors  
With Non-Profit and Affordable Housing Pilot Program

	<u>Total</u> (a)	<u>Residential</u> <u>A16 / A60</u> (b)	<u>Small</u> <u>Commercial &amp;</u> <u>Industrial</u> <u>C-06</u> (c)	<u>General</u> <u>Commercial &amp;</u> <u>Industrial</u> <u>G-02</u> (d)	<u>Large Demand</u> <u>B32 / G32</u> (e)	<u>Optional Large</u> <u>Demand</u> <u>B62 / G62</u> (f)	<u>Street Lighting</u> <u>S10 / S14</u> (g)
(1) Estimated RE Growth PBI Payments	\$12,367,169						
(2) Estimated Market Value	\$5,739,003						
(3) Estimated RE Growth Program Cost	\$6,628,166						
(4) Total Rate Base (\$000s)	\$561,737	\$296,489	\$54,542	\$82,460	\$77,651	\$21,309	\$29,286
(5) Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.79%	5.21%
(6) Allocated Expense		\$3,498,346	\$643,595	\$973,015	\$916,013	\$251,207	\$345,327
(7) Forecasted Number of Bills	7,139,873	5,250,413	593,944	97,341	12,593	138	1,185,444
(8) Illustrative Incremental RE Growth Factor - monthly per bill/luminaire charge		\$0.66	\$1.08	\$9.99	\$72.73	\$1,820.34	\$0.29
(9) Uncollectible Percentage	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
(10) Total Illustrative Incremental RE Growth Factor		\$0.66	\$1.09	\$10.11	\$73.65	\$1,843.38	\$0.29

Footnotes:

Line (1) : Page 3 Total (Line 27, Column (e))  
Line (2) : Page 4 Total (Line 27, Column (f))  
Line (3) : Line (1) - Line (2)  
Line (4) : per RIPUC 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, Line 10  
Line (5) : Line (4) ÷ Line (4) Total Column  
Line (6) : Line (5) x Line (3) Total Column  
Line (7) : per Company forecast for the period April 1, 2016 through March 31, 2017; for Streetlighting number represents individual fixtures  
Line (8) : Line (6) ÷ Line (7), truncated to two decimal places  
Line (9) : Uncollectible Percentage approved in RIPUC Docket No. 4323  
Line (10) : Line (8) ÷ [1 - Line (9)], truncated to two decimal places

National Grid  
RE Growth Program Year 2  
Estimated PBI Payments  
With Non-Profit and Affordable Housing Pilot Program

Section 1: Estimated PBI Payments

	<u>Estimated</u> <u>Class Capacity</u> <u>(MW)</u> (a)	<u>Capacity</u> <u>Factor</u> (b)	<u>Estimated</u> <u>Annual Output</u> <u>(MWh)</u> (c)	<u>Ceiling price</u> <u>(\$ per MWh)</u> (d)	<u>Estimated Annual</u> <u>Cost</u> (e)
<b>SolarWise Tier 1</b>					
(1) Small I, Resident Owned*	1.189	13.49%	1,405.25	\$373.28	\$524,545
(2) Small I, Third party owned*	0.149	13.49%	175.66	\$278.51	\$48,923
(3) Small I, Non-Profit & Affordable Housing*	0.149	13.49%	175.66	\$446.78	\$78,479
(4) Small II	0.462	13.49%	546.20	\$261.45	\$142,803
(5) Small II, Non-Profit & Aff Hous	0.051	13.49%	60.69	\$316.58	\$19,212
(6) Medium Solar	0.720	13.45%	848.32	\$256.20	\$217,339
(7) Medium Solar, Non-Profit & Aff Hous	0.080	13.45%	94.26	\$310.28	\$29,246
<b>SolarWise Tier 2</b>					
(8) Small I, Resident Owned*	0.297	13.49%	351.31	\$391.05	\$137,381
(9) Small I, Third party owned*	0.037	13.49%	43.91	\$291.78	\$12,813
(10) Small I, Non-Profit & Affordable Housing*	0.037	13.49%	43.91	\$468.05	\$20,554
(11) Small II	0.116	13.49%	136.55	\$273.90	\$37,401
(12) Small II, Non-Profit & Aff Hous	0.013	13.49%	15.17	\$331.65	\$5,032
(13) Medium Solar	0.180	13.45%	212.08	\$268.40	\$56,922
(14) Medium Solar, Non-Profit & Aff Hous	0.020	13.45%	23.56	\$325.05	\$7,660
<b>Non-SolarWise</b>					
(15) Small I, Resident Owned*	1.679	13.49%	1,983.98	\$355.50	\$705,304
(16) Small I, Third party owned*	0.647	13.49%	764.58	\$265.25	\$202,804
(17) Small I, Non-Profit & Affordable Housing*	0.647	13.49%	764.58	\$425.50	\$325,327
(18) Small II	0.924	13.49%	1,092.39	\$249.00	\$272,005
(19) Small II, Non-Profit & Aff Hous	0.103	13.49%	121.38	\$301.50	\$36,595
(20) Medium Solar	4.100	13.45%	4,830.70	\$244.00	\$1,178,691
(21) Medium Solar, Non-Profit & Aff Hous	0.900	13.45%	1,060.40	\$295.50	\$313,348
(22) Commercial Scale Solar	8.000	13.59%	9,523.87	\$193.00	\$1,838,107
(23) Large Solar	9.000	14.18%	11,179.51	\$151.00	\$1,688,106
(24) Wind*	9.000	21.00%	16,556.40	\$180.50	\$2,988,430
(25) Hydro*	0.750	40.00%	2,628.00	\$180.50	\$474,354
(26) Anaerobic Digestion	0.750	73.60%	4,835.52	\$208.00	\$1,005,788
(27) Total	40.000		59,473.83		\$12,367,169

\*Prices of different tariffs are averaged (duration / or technology size)

National Grid  
RE Growth Program Year 2  
Estimated Market Value  
With Non-Profit and Affordable Housing Pilot Program

Section 2: Estimated Market Value

		<u>Estimated</u> <u>MWh</u> <u>Purchased</u> <u>Under Tariffs</u>	<u>Market</u> <u>Energy</u> <u>Proxy</u>	<u>Energy</u> <u>Market Value</u>	<u>REC Proxy</u>	<u>REC Market</u> <u>Value</u>	<u>Total Market</u> <u>Value</u>
		(a)	(b)	(c)	(d)	(e)	(f)
	<b>SolarWise Tier 1</b>						
(1)	Small I, Resident Owned	1,405.25	n/a	n/a	\$48.53	\$68,197	\$68,197
(2)	Small I, Third party owned	175.66	n/a	n/a	\$48.53	\$8,525	\$8,525
(3)	Small I, Non-Profit & Affordable Housing	175.66	n/a	n/a	\$48.53	\$8,525	\$8,525
(4)	Small II	546.20	n/a	n/a	\$48.53	\$26,507	\$26,507
(5)	Small II, Non-Profit & Aff Hous	60.69	n/a	n/a	\$48.53	\$2,945	\$2,945
(6)	Medium Solar	848.32	\$55.08	\$46,725	\$48.53	\$41,169	\$87,894
(7)	Medium Solar, Non-Profit & Aff Hous	94.26	\$55.08	\$5,192	\$48.53	\$4,574	\$9,766
	<b>SolarWise Tier 2</b>						
(8)	Small I, Resident Owned	351.31	n/a	n/a	\$48.53	\$17,049	\$17,049
(9)	Small I, Third party owned	43.91	n/a	n/a	\$48.53	\$2,131	\$2,131
(10)	Small I, Non-Profit & Affordable Housing	43.91	n/a	n/a	\$48.53	\$2,131	\$2,131
(11)	Small II	136.55	n/a	n/a	\$48.53	\$6,627	\$6,627
(12)	Small II, Non-Profit & Aff Hous	15.17	n/a	n/a	\$48.53	\$736	\$736
(13)	Medium Solar	212.08	\$55.08	\$11,681	\$48.53	\$10,292	\$21,974
(14)	Medium Solar, Non-Profit & Aff Hous	23.56	\$55.08	\$1,298	\$48.53	\$1,144	\$2,442
	<b>Non-SolarWise</b>						
(15)	Small I, Resident Owned	1,983.98	n/a	n/a	\$48.53	\$96,282	\$96,282
(16)	Small I, Third party owned	764.58	n/a	n/a	\$48.53	\$37,105	\$37,105
(17)	Small I, Non-Profit & Affordable Housing	764.58	n/a	n/a	\$48.53	\$37,105	\$37,105
(18)	Small II	1,092.39	n/a	n/a	\$48.53	\$53,014	\$53,014
(19)	Small II, Non-Profit & Aff Hous	121.38	n/a	n/a	\$48.53	\$5,890	\$5,890
(20)	Medium Solar	4,830.70	\$55.08	\$266,075	\$48.53	\$234,434	\$500,509
(21)	Medium Solar, Non-Profit & Aff Hous	1,060.40	\$55.08	\$58,407	\$48.53	\$51,461	\$109,868
(22)	Commercial Scale Solar	9,523.87	\$55.08	\$524,575	\$48.53	\$462,194	\$986,768
(23)	Large Solar	11,179.51	\$55.08	\$615,768	\$48.53	\$542,542	\$1,158,309
(24)	Wind	16,556.40	\$55.08	\$911,927	\$48.53	\$803,482	\$1,715,409
(25)	Hydro	2,628.00	\$55.08	\$144,750	\$48.53	\$127,537	\$272,287
(26)	Anaerobic Digestion	4,835.52	\$55.08	\$266,340	\$48.53	\$234,668	\$501,008
(27)	Total	59,473.83		\$2,852,738		\$2,886,265	\$5,739,003

Footnotes:

Column (a): Page (3) Column (c)

Column (b): RIPUC Docket No. 4587 Attachment 1, page 3

Column (c): Column (a) x Column (b), truncated to 2 decimal places

Column (d): RIPUC Docket No. 4587 Attachment 1, page 3

Column (e): Column (a) x Column (d), truncated to 2 decimal places

Column (f): Column (c) + Column (e)



National Grid  
RE Growth Program Year 2  
Incremental RE Growth Factors  
Without Non-Profit and Affordable Housing Pilot Program

	<u>Total</u> (a)	<u>Residential</u> <u>A16 / A60</u> (b)	<u>Small</u> <u>Commercial &amp;</u> <u>Industrial</u> <u>C-06</u> (c)	<u>General</u> <u>Commercial &amp;</u> <u>Industrial</u> <u>G-02</u> (d)	<u>Large Demand</u> <u>B32 / G32</u> (e)	<u>Optional Large</u> <u>Demand</u> <u>B62 / G62</u> (f)	<u>Street Lighting</u> <u>S10 / S14</u> (g)
(1) Estimated RE Growth PBI Payments	\$12,225,720						
(2) Estimated Market Value	\$5,739,003						
(3) Estimated RE Growth Program Cost	\$6,486,717						
(4) Total Rate Base (\$000s)	\$561,737	\$296,489	\$54,542	\$82,460	\$77,651	\$21,309	\$29,286
(5) Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.79%	5.21%
(6) Allocated Expense		\$3,423,689	\$629,860	\$952,250	\$896,464	\$245,847	\$337,958
(7) Forecasted Number of Bills	7,139,873	5,250,413	593,944	97,341	12,593	138	1,185,444
(8) Illustrative Incremental RE Growth Factor - monthly per bill/luminaire charge		\$0.65	\$1.06	\$9.78	\$71.18	\$1,781.49	\$0.28
(9) Uncollectible Percentage	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
(10) Total Illustrative Incremental RE Growth Factor		\$0.65	\$1.07	\$9.90	\$72.08	\$1,804.04	\$0.28

Footnotes:

Line (1) : Page 6 Total (Line 27, Column (e))

Line (2) : Page 7 Total (Line 27, Column (f))

Line (3) : Line (1) - Line (2)

Line (4) : per RIPUC 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, Line 10

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Line (6) : Line (5) x Line (3) Total Column

Line (7) : per Company forecast for the period April 1, 2016 through March 31, 2017; for Streetlighting number represents individual fixtures

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Line (10) : Line (8) ÷ [1 - Line (9)], truncated to two decimal places

National Grid  
RE Growth Program Year 2  
Estimated PBI Payments  
Without Non-Profit and Affordable Housing Pilot Program

Section 1: Estimated PBI Payments

	<u>Estimated</u> <u>Class Capacity</u> <u>(MW)</u> <u>(a)</u>	<u>Capacity</u> <u>Factor</u> <u>(b)</u>	<u>Estimated</u> <u>Annual Output</u> <u>(MWh)</u> <u>(c)</u>	<u>Ceiling price</u> <u>(\$ per MWh)</u> <u>(d)</u>	<u>Estimated Annual</u> <u>Cost</u> <u>(e)</u>
<b>SolarWise Tier 1</b>					
(1) Small I, Resident Owned*	1.189	13.49%	1,405.25	\$373.28	\$524,545
(2) Small I, Third party owned*	0.149	13.49%	175.66	\$278.51	\$48,923
(3) Small I, Non-Profit & Affordable Housing*	0.149	13.49%	175.66	\$373.28	\$65,568
(4) Small II	0.462	13.49%	546.20	\$261.45	\$142,803
(5) Small II, Non-Profit & Aff Hous	0.051	13.49%	60.69	\$261.45	\$15,867
(6) Medium Solar	0.720	13.45%	848.32	\$256.20	\$217,339
(7) Medium Solar, Non-Profit & Aff Hous	0.080	13.45%	94.26	\$256.20	\$24,149
<b>SolarWise Tier 2</b>					
(8) Small I, Resident Owned*	0.297	13.49%	351.31	\$391.05	\$137,381
(9) Small I, Third party owned*	0.037	13.49%	43.91	\$291.78	\$12,813
(10) Small I, Non-Profit & Affordable Housing*	0.037	13.49%	43.91	\$391.05	\$17,173
(11) Small II	0.116	13.49%	136.55	\$273.90	\$37,401
(12) Small II, Non-Profit & Aff Hous	0.013	13.49%	15.17	\$273.90	\$4,156
(13) Medium Solar	0.180	13.45%	212.08	\$268.40	\$56,922
(14) Medium Solar, Non-Profit & Aff Hous	0.020	13.45%	23.56	\$268.40	\$6,325
<b>Non-SolarWise</b>					
(15) Small I, Resident Owned*	1.679	13.49%	1,983.98	\$355.50	\$705,304
(16) Small I, Third party owned*	0.647	13.49%	764.58	\$265.25	\$202,804
(17) Small I, Non-Profit & Affordable Housing*	0.647	13.49%	764.58	\$355.50	\$271,807
(18) Small II	0.924	13.49%	1,092.39	\$249.00	\$272,005
(19) Small II, Non-Profit & Aff Hous	0.103	13.49%	121.38	\$249.00	\$30,223
(20) Medium Solar	4.100	13.45%	4,830.70	\$244.00	\$1,178,691
(21) Medium Solar, Non-Profit & Aff Hous	0.900	13.45%	1,060.40	\$244.00	\$258,737
(22) Commercial Scale Solar	8.000	13.59%	9,523.87	\$193.00	\$1,838,107
(23) Large Solar	9.000	14.18%	11,179.51	\$151.00	\$1,688,106
(24) Wind*	9.000	21.00%	16,556.40	\$180.50	\$2,988,430
(25) Hydro*	0.750	40.00%	2,628.00	\$180.50	\$474,354
(26) Anaerobic Digestion	0.750	73.60%	4,835.52	\$208.00	\$1,005,788
(27) Total	40.000		59,473.83		\$12,225,720

\*Prices of different tariffs are averaged (duration / or technology size)

National Grid  
RE Growth Program Year 2  
Estimated Market Value  
Without Non-Profit and Affordable Housing Pilot Program

Section 2: Estimated Market Value

	<u>Estimated</u> <u>MWh</u> <u>Purchased</u> <u>Under Tariffs</u> (a)	<u>Market</u> <u>Energy</u> <u>Proxy</u> (b)	<u>Energy</u> <u>Market Value</u> (c)	<u>REC Proxy</u> (d)	<u>REC Market</u> <u>Value</u> (e)	<u>Total Market</u> <u>Value</u> (f)
<b>SolarWise Tier 1</b>						
(1) Small I, Resident Owned	1,405.25	n/a	n/a	\$48.53	\$68,197	\$68,197
(2) Small I, Third party owned	175.66	n/a	n/a	\$48.53	\$8,525	\$8,525
(3) Small I, Resident Owned	175.66	n/a	n/a	\$48.53	\$8,525	\$8,525
(4) Small II	546.20	n/a	n/a	\$48.53	\$26,507	\$26,507
(5) Small II	60.69	n/a	n/a	\$48.53	\$2,945	\$2,945
(6) Medium Solar	848.32	\$55.08	\$46,725	\$48.53	\$41,169	\$87,894
(7) Medium Solar	94.26	\$55.08	\$5,192	\$48.53	\$4,574	\$9,766
<b>SolarWise Tier 2</b>						
(8) Small I, Resident Owned	351.31	n/a	n/a	\$48.53	\$17,049	\$17,049
(9) Small I, Third party owned	43.91	n/a	n/a	\$48.53	\$2,131	\$2,131
(10) Small I, Resident Owned	43.91	n/a	n/a	\$48.53	\$2,131	\$2,131
(11) Small II	136.55	n/a	n/a	\$48.53	\$6,627	\$6,627
(12) Small II	15.17	n/a	n/a	\$48.53	\$736	\$736
(13) Medium Solar	212.08	\$55.08	\$11,681	\$48.53	\$10,292	\$21,974
(14) Medium Solar	23.56	\$55.08	\$1,298	\$48.53	\$1,144	\$2,442
<b>Non-SolarWise</b>						
(15) Small I, Resident Owned	1,983.98	n/a	n/a	\$48.53	\$96,282	\$96,282
(16) Small I, Third party owned	764.58	n/a	n/a	\$48.53	\$37,105	\$37,105
(17) Small I, Resident Owned	764.58	n/a	n/a	\$48.53	\$37,105	\$37,105
(18) Small II	1,092.39	n/a	n/a	\$48.53	\$53,014	\$53,014
(19) Small II	121.38	n/a	n/a	\$48.53	\$5,890	\$5,890
(20) Medium Solar	4,830.70	\$55.08	\$266,075	\$48.53	\$234,434	\$500,509
(21) Medium Solar	1,060.40	\$55.08	\$58,407	\$48.53	\$51,461	\$109,868
(22) Commercial Scale Solar	9,523.87	\$55.08	\$524,575	\$48.53	\$462,194	\$986,768
(23) Large Solar	11,179.51	\$55.08	\$615,768	\$48.53	\$542,542	\$1,158,309
(24) Wind	16,556.40	\$55.08	\$911,927	\$48.53	\$803,482	\$1,715,409
(25) Hydro	2,628.00	\$55.08	\$144,750	\$48.53	\$127,537	\$272,287
(26) Anaerobic Digestion	4,835.52	\$55.08	\$266,340	\$48.53	\$234,668	\$501,008
(27) Total	59,473.83		\$2,852,738		\$2,886,265	\$5,739,003

Footnotes:

Column (a):	Page (6) Column (c)
Column (b):	RIPUC Docket No. 4587 Attachment 1, page 3
Column (c):	Column (a) x Column (b), truncated to 2 decimal places
Column (d):	RIPUC Docket No. 4587 Attachment 1, page 3
Column (e):	Column (a) x Column (d), truncated to 2 decimal places
Column (f):	Column (c) + Column (e)