

September 20, 2018

BY HAND DELIVERY AND ELECTRONIC MAIL

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

RE: Docket 4847 - 2018 Renewable Energy (RE) Growth Program Factor Filing Responses to PUC Data Requests – Set 4

Dear Ms. Massaro:

I have enclosed ten (10) copies of the Company's¹ responses to the fourth 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 4847 Service List
Leo Wold, Esq.
Jon Hagopian, Esq.
John Bell, Division

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

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



Joanne M. Scanlon

September 20, 2018
Date

Docket No. 4847– National Grid’s 2018 Renewable Energy (RE) Growth Program Factor Filing - Service List updated 7/20/18

Parties’ Name/Address	E-mail	Phone
Raquel J. Webster, Esq. National Grid 280 Melrose Street Providence, RI 02907	Raquel.webster@nationalgrid.com;	781-907-2121
	Adam.crary@nationalgrid.com;	
	Kathy.hammer@nationalgrid.com;	
	William.Richer@nationalgrid.com;	
	Brooke.skulley@nationalgrid.com; Joanne.scanlon@nationalgrid.com;	
Jon Hagopian, Sr. Counsel Division of Public Utilities and Carriers	Jon.hagopian@dpuc.ri.gov;	401-784-4775
	John.bell@dpuc.ri.gov;	
	Al.mancini@dpuc.ri.gov;	
	Macky.McCleary@dpuc.ri.gov; Jonathan.Schrag@dpuc.ri.gov;	
File an original & 9 copies w/: Luly E. Massaro, Commission Clerk Cynthia Wilson-Frias, Commission Counsel Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	Luly.massaro@puc.ri.gov;	401-780-2107
	Alan.nault@puc.ri.gov;	
	Todd.bianco@puc.ri.gov; Cynthia.WilsonFrias@puc.ri.gov;	
Chris Kearns, OER	Christopher.Kearns@energy.ri.gov;	
	Nicholas.ucci@energy.ri.gov;	

PUC 4-1

Request:

Please update the following schedules to reflect actual project output for the relevant program years:

- Docket 4707 – Program Year 2017 – Schedule ASC-2, page 3 of 4
- Docket 4626 – Program Year 2016 – Schedule NG-2, page 3 of 4
- Docket 4542 – Program Year 2015 – Schedule NG-1, page 3 of 4

Response:

Attachments PUC 4-1(a), PUC 4-1(b) and PUC 4-1(c) provides the requested schedules for program years 2017, 2016, and 2015, respectively.

These attachments provide the total commercially operational nameplate capacity in kW at the end of each RE Growth Program Year: March 31, 2018, March 31, 2017, and March 31, 2016; the total billed generation per project enrollee type; the associated Performance Based Incentive (PBI) Price, and the Total PBI Payments per project type. Also provided are the total Market Products (energy revenues and REC transfers) per Program Year.

Section 3 of attachments PUC 4-1(a) and PUC 4-1(b) provides Forward Capacity Market (FCM) Revenues per Program Year.

The final section of each attachment provides the net above market cost per Program Year.

**Renewable Energy Growth Program
Performance-Based Incentive Payments and Market Value
for the Program Year Ending March 31, 2018**

Section 1: Annual Performance-Based Incentive Payments

<u>Unit</u>	<u>Aggregate Capacity (kW) as of 3/31/18</u> (a)	<u>Twelve-Month Output (kWh)</u> (b)	<u>Tariff Price (\$ per kWh)</u> (c)	<u>Twelve-Month Cost</u> (d)
(1) Small Scale Solar - Operational 2015 Program Year Enrollees - 15 Year Tariff	2,578.5	4,231,654	\$0.4135	\$1,749,789
(2) Small Scale Solar - Operational 2015 Program Year Enrollees - 20 Year Tariff	371.3	583,895	\$0.3775	\$220,420
(3) Small Scale Solar II - Operational 2015 Program Year Enrollees - 20 Year Tariff	17.4	47,102	\$0.2980	\$14,036
(4) Medium Scale Solar - Operational 2015 Program Year Enrollees - 20 Year Tariff	2,183.0	1,604,368	\$0.2440	\$391,466
(5) Commercial Scale Solar - Operational 2015 Program Year Enrollees - 20 Year Tariff	1,500.0	108,856	\$0.2000	\$21,771
(6) Wind I- Operational 2015 Operational Program Year Enrollees - 20 year Tariff	1,500.0	3,418,724	\$0.2275	\$777,760
(7) Wind II- Operational 2015 Operational Program Year Enrollees - 20 year Tariff	4,500.0	11,115,772	\$0.2235	\$2,484,375
(8) Small Scale Solar - Operational 2016 Program Year Enrollees - 15 Year Tariff	5,010.0	4,351,548	\$0.3765	\$1,638,358
(9) Small Scale Solar - Operational 2016 Program Year Enrollees - 20 Year Tariff	1,190.4	1,112,097	\$0.3345	\$371,996
(10) Small Scale Solar - Operational 2015 Program Year Enrollees - 15 Year Tariff - SolarWise	41.3	43,037	\$0.4142	\$17,826
(11) Small Scale Solar II - Operational 2016 Program Year Enrollees - 20 Year Tariff	42.0	140,786	\$0.2490	\$35,056
(12) Medium Scale Solar - Operational 2016 Program Year Enrollees - 20 Year Tariff	497.0	116,001	\$0.2255	\$26,158
(13) Small Scale Solar - Operational 2017 Program Year Enrollees - 15 Year Tariff	5,200.2	1,432,649	\$0.3475	\$497,846
(14) Small Scale Solar - Operational 2017 Program Year Enrollees - 20 Year Tariff	621.6	147,992	\$0.3085	\$45,655
(15) Small Scale Solar - Operational 2017 Program Year Enrollees - 15 Year Tariff - SolarWise	6.3	1,025	\$0.3649	\$374
(16) Small Scale Solar II - Operational 2017 Program Year Enrollees - 20 Year Tariff	80.8	18,377	\$0.2775	\$5,100
(17) Small Scale Solar II - Operational 2017 Program Year Enrollees - 20 Year Tariff	12.9	3,877	\$0.2739	\$1,062
(18) Large Scale Solar - Operational 2017 Program Year Enrollees - 20 Year Tariff	5,090.0	243,337	\$0.1594	\$38,788
(19) Total	30,442.6	28,721,097		\$8,337,836

Section 2: Market Value

<u>Class</u>	<u>Energy Market Value</u> (e)	<u>REC Market Value</u> (f)	<u>Total Market Value</u> (g)
(20) Program Year 2017 Total Market Value	\$747,528	\$358,922	\$1,106,449

Section 3: Forward Capacity Market Proceeds

	<u>Forward Capacity Market Proceeds</u> (h)	<u>Customer Share of Forward Capacity Market Proceeds</u> (i)
(21) FCM Proceeds through PY17	\$0	\$0

Section 4: Estimated Net Cost

	<u>Net Cost</u> (j)
(22) Total Above (Below) Market Cost	\$7,231,387

(1)-(8) Operational RE Growth Projects as of 3/31/18
(9) Total Program Energy and REC market Value

(10) Forward Capacity Market Proceeds for Program Year 2017
(11) Line (19), Column (d) - Line (20), Column (g) - Line (21), Column (i)

(a) Aggregate Nameplate Capacity Online as per March 31, 2018
(b) Generation per Project Type
(c) Enrolled Project Performance Based Incentive (PBI)
(d) Total PBI Payments

(e) Total market Value of Energy for Program Year 2017
(f) Total Transfer Price of RECs for Program Year 2017

(g) Column (e) + Column (f)
(h) Forward Capacity Market Proceeds for Program Year 2017

(i) Customer Share of Forward Capacity Market Proceeds for Program Year 2016
(j) Total Above Market Cost

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

Section 1: Estimated Annual Performance-Based Incentive Payments

<u>Unit</u>	<u>Aggregate Capacity (kW) as of 3/31/17</u> (a)	<u>Twelve-Month Output (kWh)</u> (b)	<u>Tariff Price (\$ per kWh)</u> (c)	<u>Twelve-Month Cost</u> (d)
(1) Small Scale Solar - Operational 2015 Program Year Enrollees - 15 Year Tariff	2,544.3	2,121,393	\$0.4135	\$877,196
(2) Small Scale Solar - Operational 2015 Program Year Enrollees - 20 Year Tariff	369.2	271,724	\$0.3775	\$102,576
(4) Small Scale Solar II - Operational 2015 Program Year Enrollees - 20 Year Tariff	17.4	22,438	\$0.2980	\$6,687
(5) Wind II- Operational 2015 Operational Program Year Enrollees - 20 year Tariff	4,500.0	0	\$0.2235	\$0
(6) Small Scale Solar - Operational 2016 Program Year Enrollees - 15 Year Tariff	3,092.8	692,306	\$0.3765	\$260,653
(7) Small Scale Solar - Operational 2016 Program Year Enrollees - 20 Year Tariff	932.0	251,151	\$0.3345	\$84,010
(3) Small Scale Solar - Operational 2015 Program Year Enrollees - 15 Year Tariff - SolarWise	33.7	6,849	\$0.4142	\$2,837
(8) Small Scale Solar II - Operational 2016 Program Year Enrollees - 20 Year Tariff	13.2	65,279	\$0.2490	\$16,254
(9) Total	11,502.7	3,431,140		\$1,350,213

Section 2: Market Value

<u>Class</u>	<u>Energy Market Value</u> (e)	<u>REC Market Value</u> (f)	<u>Total Market Value</u> (g)
(10) Program Year 2016 Total Market Value	\$4,307	\$26,029	\$30,336

Section 3: Forward Capacity Market Proceeds

	<u>Forward Capacity Market Proceeds</u> (h)	<u>Customer Share of Forward Capacity Market Proceeds</u> (i)
(11) FCM Proceeds through PY17	\$0	\$0

Section 4: Estimated Net Cost

	<u>Net Cost</u> (j)
(12) Total Above (Below) Market Cost	\$1,319,877

(1)-(8) Operational RE Growth Projects as of 3/31/17
(10) Total Program Energy and REC market Value

(11) Forward Capacity Market Proceeds for Program Year 2016
(12) Line (9), Column (d) - Line (10), Column (g) - Line (11), Column (i)

(a) Aggregate Nameplate Capacity Online as per March 31, 2017
(b) Generation per Project Type
(c) Enrolled Project Performance Based Incentive (PBI)
(d) Total PBI Payments
(e) Total market Value of Energy for Program Year 2016
(f) Total Transfer Price of RECs for Program Year 2016
(g) Column (e) + Column (f)
(h) Forward Capacity Market Proceeds for Program Year 2016

Customer Share of Forward Capacity Market Proceeds for Program Year 2016
(i) Total Above Market Cost

**Renewable Energy Growth Program
Performance-Based Incentive Payments and Market Value
for the Program Year Ending March 31, 2016**

Section 1: Annual Performance-Based Incentive Payments

<u>Unit</u>	<u>Aggregate Capacity (kW) as of 3/31/16</u> (a)	<u>Twelve-Month Output (kWh)</u> (b)	<u>Tariff Price (\$ per kWh)</u> (c)	<u>Twelve-Month Total PBI Cost</u> (d)
(1) Small Scale Solar - Operational 2015 Program Year Enrollees 15 Year Tariff	600.5	52,685	\$0.4135	\$21,785
(2) Small Scale Solar - Operational 2015 Program Year Enrollees 20 Year Tariff	36.2	9,517	\$0.3775	\$3,593
(3) Small Scale Solar - Operational 2016 Program Year Enrollees 15 Year Tariff	4.5	0	\$0.3765	\$0
(4) Total	641.2	62,202		\$25,378

Section 2: Market Value

<u>Class</u>	<u>kWh Purchased Under Tariffs</u> (e)	<u>Energy Market Value</u> (f)	<u>REC Proxy</u> (g)	<u>REC Market Value</u> (h)	<u>Total Market Value</u> (i)
(5) Small Scale Solar - 2015 Enrollees	0	n/a	n/a	n/a	n/a
(6) Total	-			\$0	\$0

Section 3: Net Cost

	<u>Net Cost</u> (j)
(7) Small Scale Solar - 2015 Enrollees	\$25,378
(8) Small Scale Solar - 2016 Enrollees	<u>\$0</u>
(9) Total Estimated Above (Below) Market Cost	\$25,378

- (1) - (4) Operational Small-Scale Solar RE Growth Projects as of March 31, 2016
(5) Non-Operational Small-Scale Solar Projects from R.E. Growth Small Scale Solar Aggregation Report Filed 4/12/16
(7) Line (4) - Line (6)

- (a) Aggregate Capacity Online as per March 31, 2016
(b) Generation per Project Type
(c) Enrolled Project Performance Based Incentive (PBI)
(d) Total PBI Payments
(e) n/a
(f) n/a

- (g) n/a
(h) n/a
(i) n/a
(j) Line (4), Column (d) - Line (6), Column (i)