

March 12, 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 4805 - 2018 Annual Retail Rate Filing
Responses to PUC Data Requests – Set 1

Dear Ms. Massaro:

I have enclosed ten (10) copies of National Grid's¹ responses to the PUC's first set of data requests in the above-referenced docket.

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

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 4805 Service List
John Bell, Division
Leo Wold, Esq.

¹ 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

March 12, 2018
Date

National Grid – 2018 Annual Retail Rate Filing - Docket No. 4805 Service List Updated 2/19/18

Name/Address	E-mail Distribution	Phone
Raquel Webster, Esq. National Grid. 280 Melrose St. Providence, RI 02907	Raquel.webster@nationalgrid.com ;	781-907-2121
	Celia.obrien@nationalgrid.com ;	
	Joanne.scanlon@nationalgrid.com ;	
	Adam.crary@nationalgrid.com ;	
	Polina.demers@nationalgrid.com ;	
Leo Wold, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903	lwold@riag.ri.gov ;	401-222-2424
	John.bell@dpuc.ri.gov ;	
	Al.mancini@dpuc.ri.gov ;	
	Jonathan.Schrag@dpuc.ri.gov ;	
	dmacrae@riag.ri.gov ;	
Richard Hahn Matt Loiacono Daymark Energy Advisors	rhahn@daymarkea.com ;	617-778-2467
	mloiacono@daymarkea.com ;	
File an original & 10 copies w/: Luly E. Massaro, Commission Clerk Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	Luly.massaro@puc.ri.gov ;	401-780-2017
	Linda.george@puc.ri.gov ;	
	Alan.nault@puc.ri.gov ;	
	Todd.bianco@puc.ri.gov ;	
	Cynthia.WilsonFrias@puc.ri.gov ;	
Office of Energy Resources Nicholas Ucci Christopher Kearns	Nicholas.ucci@energy.ri.gov ;	
	Christopher.Kearns@energy.ri.gov ;	

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4805
In Re: 2018 Retail Rate Filing
Responses to the Commission's First Set of Data Requests
Issued on February 19, 2018

PUC 1-1

Request:

Referencing Docket No. 4673, please provide schedules in the same format as Attachment 1 to each of the semi-annual filings in that docket, but for the 12-month period January 1, 2017 to December 31, 2018 with actuals rather than estimates.

Response:

The Company is responding to this data request by assuming that it is requesting actual data for the 12-month period January 1, 2017 through December 31, 2017.

Please see Attachment PUC 1-1, which provides a schedule in the same format as the semi-annual Long Term Contracting for Renewable Energy Recovery filings, but with actuals for the reconciliation period of January 1, 2017 through December 31, 2017, rather than estimates.

Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Total Costs
For the Period January 2017 through December 2017

(1) Above Market Cost for the period January 2017 through December 2017 (AM)	\$41,895,141
(2) Customer Share of Net Forward Capacity Market Proceeds (NFCMP)	\$0
(3) Administrative Costs (ADM)	\$38,020
(4) Performance Guarantee Deposit Refunds	(\$87,925)
(5) 2.75% Remuneration	<u>\$1,651,485</u>
(6) Total Costs	\$43,496,721

- (1) per page 4, column (c), Line (31)
- (2) no proceeds in CY 2017
- (3) per page 5, Line (11)
- (4) per Schedule ASC-18, Page 4, Column (g)
- (5) per Schedule ASC-18, Page 4, Column (h)
- (6) Line (1) - Line (2) + Line (3) + Line (5)

Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Annual Actual Contract Cost
For the Period January 2017 through December 2017

Annual Contract Cost

Unit	Unit Capacity (MW)	Commercial Operation Date	Unit Availability Efficiency Factor	Actual Annual Output (MWh)	Resettlements for Generation prior to CY17	Contract Price (\$ per MWh)	Prior Period Contract Price (\$ per MWh)	Actual Annual Contract Cost
(1)	RI LFG Genco Asset No. 40054	32.100	05/28/13	72%	203,718.2			\$27,611,555
(2)	Wind Energy Dev. NK Green LLC Asset No. 42394	1.500	03/01/13	21%	2,771.7			\$370,023
(3)	Con Edison Development Plain Mtg House Asset No. 43512	2.000	07/19/13	14%	2,499.7			\$687,407
(4)	ACP Land LLC 28 Jacome Way Asset No. 43527	0.500	07/18/13	15%	636.84	29.93	\$316.00	\$210,699
(5)	Comtram Cable Asset No. 43586	0.499	09/30/13	14%	596.8	10.1	\$316.00	\$191,786
(6)	CCI New England 500 kW Asset No. 43607	0.498	10/25/13	5%	197.1		\$316.00	\$62,287
(7)	Conanicut Marine Services (CMS) Solar Asset No. 43685	0.128	10/21/13	11%	121.0		\$288.00	\$34,861
(8)	Black Bear Orono B Hydro Asset No. 38083	3.958	11/22/13	75%	26,130.0		\$98.50	\$2,573,804
(9)	West Davisville Solar Asset No. 43716	2.340	12/06/13	14%	2,800.6		\$236.99	\$663,709
(10)	Forbes Street Solar Asset No. 43762	3.710	12/20/13	14%	4,543.0		\$239.00	\$1,085,765
(11)	CCI New England 181 kW Asset No. 43921	0.181	02/27/14	13%	204.3		\$316.00	\$64,563
(12)	100 Dupont Solar Asset No. 44003	1.500	03/25/14	12%	1,545.56	29.6	\$209.00	\$329,208
(13)	225 Dupont Solar Asset No. 44004	0.300	03/25/14	13%	331.0		\$316.00	\$104,593
(14)	35 Martin Solar Asset No. 44006	0.500	03/27/14	12%	541.27	0.558	\$316.00	\$171,218
(15)	0 Martin Solar Asset No. 44005	0.500	03/27/14	13%	563.25	1.64	\$316.00	\$178,505
(16)	Gannon & Scott Solar Asset No. 44010	0.406	04/29/14	11%	392.96	10.31	\$284.00	\$114,529
(17)	All American Foods Solar Asset. No. 46721	0.331	10/24/14	11%	317.6		\$284.00	\$90,190
(18)	Brickle Group Solar Project Asset. No. 46911	1.084	12/04/14	14%	1,328.1		\$184.90	\$245,563
(19)	T.E.A.M. Inc. Solar Asset. No. 46913	0.182	12/11/14	12%	194.7		\$288.00	\$56,086
(20)	Newport Vineyards Solar Asset. No. 46917	0.053	12/15/14	13%	60.69	4.882	\$299.50	\$19,638
(21)	SER Solar 23 Appian Way Asset. No. 46926	0.052	12/17/14	12%	54.3		\$277.57	\$15,075
(22)	Nexamp 76 Stilson Rd. Asset. No. 47020	0.498	02/28/15	15%	643.7	1.78	\$194.88	\$125,790
(23)	Randall Steere Farm Asset. No. 46998	0.091	03/18/15	12%	95.1		\$299.49	\$28,484
(24)	Johnston Solar Asset No. 47357	1.700	08/03/15	13%	1,983.26	126.97	\$175.00	\$369,289
(25)	North Kingstown Solar 1720 Davisville Rd.- Asset No. 47487	0.500	10/20/15	14%	608.3		\$190.00	\$115,585
(26)	Wilco 260 South County Trail - Asset No. 48664	1.246	08/11/16	14%	1,503.47	11.1	\$219.50	\$332,448
(27)	Foster Solar - Asset No. 48774	1.250	09/08/16	14%	1,586.40	28.7	\$205.99	\$332,688
(28)	Brookside Equestrian Center No. 48899	1.246	10/19/16	14%	1,487.3		\$149.90	\$222,941
(29)	Deepwater Wind Asset No. 38495	30.000	12/12/16	39%	102,234.9	1,515.4	\$243.95	\$25,297,383
(30)	Orbit Energy Asset No. 50057	3.200	08/24/17		0.0		\$96.90	\$0
(31)	Total				359,691	1,771		\$61,705,674

- (a) commercially operable units
- (b) start date of commercial operation
- (c) Column (d) / (Column (a) x 8760 hours)
- (d) per Company reports
- (e) per Company Accounting records
- (f) per Purchase Power Agreements
- (g) per Purchase Power Agreements
- (h) Column (d) x (Column (f) + Column (e) x Column (g))

Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Actual Market Value
For the Period January 2017 through December 2017

<u>Estimated Market Value</u>		Actual	Energy	REC		Total
<u>Unit</u>		<u>MWh Purchased</u>	<u>Market</u>	<u>Market</u>	<u>Capacity</u>	<u>Market</u>
		<u>Under Contracts</u>	<u>Value</u>	<u>Value</u>	<u>(d)</u>	<u>Value</u>
		(a)	(b)	(c)		(e)
(1)	RI LFG Genco Asset No. 40054	203,718.2	\$6,768,688	\$3,665,623	\$1,570,958	\$12,005,269
(2)	Wind Energy Dev. NK Green LLC Asset No. 42394	2,771.7	\$94,309	\$55,289		\$149,598
(3)	Con Edison Development Plain Mtg House Asset No. 43512	2,499.7	\$75,908	\$47,972		\$123,880
(4)	ACP Land LLC 28 Jacome Way Asset No. 43527	636.8	\$20,407	\$13,625		\$34,032
(5)	Comtram Cable Asset No. 43586	596.8	\$19,313	\$10,734		\$30,047
(6)	CCI New England 500 kW Asset No. 43607	197.1	\$7,268	\$5,147		\$12,414
(7)	Conanicut Marine Services (CMS) Solar Asset No. 43685	121.0	\$3,503	\$2,306		\$5,809
(8)	Black Bear Orono B Hydro Asset No. 38083	26,130.0	\$748,263	\$483,654	\$156,306	\$1,388,224
(9)	West Davisville Solar Asset No. 43716	2,800.6	\$85,075	\$51,182		\$136,257
(10)	Forbes Street Solar Asset No. 43762	4,543.0	\$138,680	\$79,651		\$218,331
(11)	CCI New England 181 kW Asset No. 43921	204.3	\$6,135	\$3,742		\$9,877
(12)	100 Dupont Solar Asset No. 44003	1,545.6	\$47,617	\$28,913		\$76,530
(13)	225 Dupont Solar Asset No. 44004	331.0	\$9,496	\$6,061		\$15,556
(14)	35 Martin Solar Asset No. 44006	541.3	\$16,232	\$9,962		\$26,194
(15)	0 Martin Solar Asset No. 44005	563.3	\$16,244	\$10,538		\$26,783
(16)	Gannon & Scott Solar Asset No. 44010	393.0	\$11,814	\$7,058		\$18,872
(17)	All American Foods Solar Asset. No. 46721	317.6	\$9,716	\$6,324		\$16,040
(18)	Brickle Group Solar Project Asset. No. 46911	1,328.1	\$41,763	\$23,951		\$65,715
(19)	T.E.A.M. Inc. Solar Asset. No. 46913	194.7	\$5,555	\$3,549		\$9,104
(20)	Newport Vineyards Solar Asset. No. 46917	60.7	\$2,000	\$1,119		\$3,119
(21)	SER Solar 23 Appian Way Asset. No. 46926	54.3	\$1,565	\$982		\$2,546
(22)	Nexamp 76 Stilson Rd. Asset. No. 47020	643.7	\$20,033	\$11,840		\$31,873
(23)	Randall Steere Farm Asset. No. 46998	95.1	\$2,768	\$1,928		\$4,696
(24)	Johnston Solar Asset No. 47357	1,983.3	\$62,427	\$31,906		\$94,332
(25)	North Kingstown Solar 1720 Davisville Rd.- Asset No. 47487	608.3	\$18,498	\$11,211		\$29,709
(26)	Wilco 260 South County Trail - Asset No. 48664	1,503.5	\$47,423	\$23,695		\$71,118
(27)	Foster Solar - Asset No. 48774	1,586.4	\$46,993	\$24,381		\$71,374
(28)	Brookside Equestrian Center No. 48899	1,487.3	\$36,590	\$17,299		\$53,889
(29)	Deepwater Wind Asset No. 38495	102,234.9	\$3,981,102	\$1,098,242		\$5,079,344
(30)	Orbit Energy Asset No. 50057	0.0	<u>\$0</u>	<u>\$0</u>		<u>\$0</u>
(31)	Total		\$12,345,384	\$5,737,885	\$1,727,265	\$19,810,533

- (a) per Page 2, column (d)
(b) per Company Accounting records
(c) per Company Accounting records
(d) per Company Accounting records
(e) column (b) + column (c) + column (d)

Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Above (Below) Market Cost
For the Period January 2017 through December 2017

Above (Below) Market Cost

	<u>Unit</u>	<u>Actual Annual Contract Cost</u> (a)	<u>Total Market Value</u> (b)	<u>Above (Below) Market Cost</u> (c)
(1)	RI LFG Genco Asset No. 40054	\$27,611,555	\$12,005,269	\$15,606,285
(2)	Wind Energy Dev. NK Green LLC Asset No. 42394	\$370,023	\$149,598	\$220,425
(3)	Con Edison Development Plain Mtg House Asset No. 43512	\$687,407	\$123,880	\$563,526
(4)	ACP Land LLC 28 Jacome Way Asset No. 43527	\$210,699	\$34,032	\$176,668
(5)	Comtram Cable Asset No. 43586	\$191,786	\$30,047	\$161,739
(6)	CCI New England 500 kW Asset No. 43607	\$62,287	\$12,414	\$49,873
(7)	Conanicut Marine Services (CMS) Solar Asset No. 43685	\$34,861	\$5,809	\$29,052
(8)	Black Bear Orono B Hydro Asset No. 38083	\$2,573,804	\$1,388,224	\$1,185,581
(9)	West Davisville Solar Asset No. 43716	\$663,709	\$136,257	\$527,452
(10)	Forbes Street Solar Asset No. 43762	\$1,085,765	\$218,331	\$867,434
(11)	CCI New England 181 kW Asset No. 43921	\$64,563	\$9,877	\$54,686
(12)	100 Dupont Solar Asset No. 44003	\$329,208	\$76,530	\$252,678
(13)	225 Dupont Solar Asset No. 44004	\$104,593	\$15,556	\$89,036
(14)	35 Martin Solar Asset No. 44006	\$171,218	\$26,194	\$145,024
(15)	0 Martin Solar Asset No. 44005	\$178,505	\$26,783	\$151,723
(16)	Gannon & Scott Solar Asset No. 44010	\$114,529	\$18,872	\$95,657
(17)	All American Foods Solar Asset. No. 46721	\$90,190	\$16,040	\$74,149
(18)	Brickle Group Solar Project Asset. No. 46911	\$245,563	\$65,715	\$179,848
(19)	T.E.A.M. Inc. Solar Asset. No. 46913	\$56,086	\$9,104	\$46,982
(20)	Newport Vineyards Solar Asset. No. 46917	\$19,638	\$3,119	\$16,519
(21)	SER Solar 23 Appian Way Asset. No. 46926	\$15,075	\$2,546	\$12,528
(22)	Nexamp 76 Stilson Rd. Asset. No. 47020	\$125,790	\$31,873	\$93,917
(23)	Randall Steere Farm Asset. No. 46998	\$28,484	\$4,696	\$23,788
(24)	Johnston Solar Asset No. 47357	\$369,289	\$94,332	\$274,957
(25)	North Kingstown Solar 1720 Davisville Rd. - Asset No. 47487	\$115,585	\$29,709	\$85,876
(26)	Wilco 260 South County Trail - Asset No. 48664	\$332,448	\$71,118	\$261,330
(27)	Foster Solar - Asset No. 48774	\$332,688	\$71,374	\$261,314
(28)	Brookside Equestrian Center No. 48899	\$222,941	\$53,889	\$169,052
(29)	Deepwater Wind Asset No. 38495	\$25,297,383	\$5,079,344	\$20,218,039
(30)	Orbit Energy Asset No. 50057	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
(31)	Total	\$61,705,674	\$19,810,533	\$41,895,141

- (a) page 2 column (h)
(b) page 3 column (e)
(c) column (a) - column (b)

**Forward Capacity Market
Actual Proceeds and Administrative Costs
For the Period January 2017 through December 2017**

Section 1: Customer Share of Net Forward Capacity Market Proceeds:

(1)	Net Forward Capacity Market Proceeds	\$0
(2)	Customer Share of Net Forward Capacity Market Proceeds	\$0

Section 2: Administrative Costs:

(3)	Contractor Fees	\$12,260
(4)	Total hours for January 2017 - December 2017	364
(5)	Unburdened Average Hourly Rate	\$41.88
(6)	Average Burden Rate	69.00%
(7)	Burdened Average Hourly Rate	\$70.77
(8)	Administrative Company Labor for the FCM	\$25,760
(9)	Total administrative costs for the FCM	\$38,020

(1)	Proceeds received
(2)	Line (1) x 90%
(3)	per Company accounting records
(4)	per Company accounting records
(5)	Per Company records (excludes Pension and PBOP)
(6)	Average Burden rate for CY17
(7)	Line (7) x (1 + Line (8))
(8)	Line (6) x Line (9)
(9)	Line (5) + Line (10)

PUC 1-2

Request:

Please indicate whether National Grid has encountered any problems with the transmission cable between Block Island and the mainland of Rhode Island. If so, please indicate:

- (a) any remediation that has or will need to be completed,
- (b) the cost impact,
- (c) the proposed recovery mechanism, and
- (d) whether such costs will be proposed through transmission rates or distribution rates.
- (e) Please indicate the regulatory authority(ies) that will review such costs for prudence.

Response:

- (a) The sea2shore transmission cable (the Cable) has been performing reliably since its installation in 2016. The Narragansett Electric Company (the Company) has performed several activities to maintain compliance with permits issued by the Rhode Island Department of Environmental Management (RIDEM), the Rhode Island Coastal Resources Management Council (CRMC), and the U.S. Army Corps of Engineers (USACE), including compliance with the target burial depth of four to six feet. During construction, unplowable material was encountered along several sections of the cable route, which required concrete matting to be installed in several sections between Scarborough Beach and Crescent Beach. A portion of the cable in close proximity to Crescent Beach required the installation of an 80 foot long protective sleeve (Teckduct) to reduce the possibility of cable damage due to possible anchor strikes and shifting tides. RIDEM, CRMC, and USACE approved the Teckduct sleeve and it was installed in April 2017. CRMC further directed the Company to perform additional burial depth surveys over several months in 2017. These surveys showed that the area sleeved with Teckduct is maintaining cable integrity. However, an area beyond the sleeved cable will require additional protection. In January 2018, the Company reviewed the results of the surveys with RIDEM, CRMC, and USACE and identified the need to install additional sleeving over approximately 275 feet of the cable seaward of Crescent Beach. The Company is proposing to perform this installation in the Fall of 2018 subject to necessary federal and state permit approvals.

PUC 1-2, page 2

- (b) The estimated cost for the additional work to be performed in 2018 is \$2.2 million.
- (c) The recovery mechanism for the Cable costs is the Federal Energy Regulatory Commission (FERC)-approved Block Island Transmission System Surcharge (BITS Surcharge) under Schedule-21-NEP of the ISO/RTO Tariff.
- (d) New England Power Company (NEP) will recover the costs of the Cable through FERC-jurisdictional transmission rates through its billing to the Company and Block Island Power Company. The Company would include recovery of the Cable costs with other transmission costs billed to it by NEP, the Independent System Operator-New England, and any other entity providing transmission service to the Company pursuant to its Transmission Service Cost Adjustment Provision, RIPUC No. 2115.
- (e) FERC has exclusive jurisdiction over the prudence of costs and rates to be charged to wholesale customers. The PUC has jurisdiction over the transmission service rates the Company bills to its customers, but the PUC may not conclude in setting retail rates that the FERC-approved jurisdictional transmission rate is unjust, unreasonable, or imprudent.

PUC 1-3

Request:

Please indicate whether National Grid (or any affiliate company) has received revenues from the telecommunications capability from the transmission cable between Block Island and the mainland of Rhode Island. If so, where are those revenues offsetting other costs? If not, why not?

Response:

As of the date of this response, neither the Company or any affiliated company has received revenues from the telecommunications capability from the transmission cable between Block Island and the mainland of Rhode Island, and any revenues to be received from either the Town of New Shoreham or Deepwater Wind Block Island Transmission, LLC (Deepwater) will be nominal pursuant to the terms of the Cooperation Agreement between the Company and Deepwater, and the respective fiber use agreements with the Town of New Shoreham and Deepwater.

By way of background, on March 13, 2014, the Company submitted to the Division of Public Utilities and Carriers (Division) the Transmission Facilities Purchase Agreement (the Purchase Agreement) between the Company and Deepwater for consent pursuant to R.I. Gen. Laws § 39-26.1-7(f), together with certain ancillary documents for informational purposes, including a Cooperation Agreement in Docket No. D-14-20, which were later executed on June 30, 2014.¹ The Purchase Agreement contemplated the Company's purchase of certain assets from Deepwater, including, among other things, the property options and rights, major permits, engineering and other reports to construct the transmission facilities, including the undersea transmission cable and related facilities (including a fiber optic cable) to interconnect the Town of New Shoreham and the Rhode Island mainland. Section 6 of the Cooperation Agreement states that the Company will provide access to a minimum number of fiber strands to Deepwater and the Town of New Shoreham at \$1.00 per annum, subject to terms and conditions outlined in a mutually acceptable fiber use agreement. The \$1.00 per annum fee for access to the fiber strands has not yet been invoiced to the Town of New Shoreham or Deepwater.

No other fibers are currently being utilized for non-operational or commercial purposes.

¹ Pursuant to R.I. Gen. Laws § 39-26.1-7(f), the Division consented to the Purchase Agreement in a written Report and Order dated April 2, 2014 in Docket No. D-14-20.