

Raquel J. Webster Senior Counsel

March 20, 2017

BY HAND DELIVERY & ELECTRONIC MAIL

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

RE: Docket 4605- 2017 Renewable Energy Standard (RES) Charge and Reconciliation Responses to Division Data Requests – Set 2

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed 10 copies of the Company's responses to the second set of data requests issued by the Rhode Island Division of Public Utilities and Carriers 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 4605 Service List Steve Scialabba Leo Wold, Esq.

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.

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

<u>March 20, 2017</u> Date

Docket No. 4605 - National Grid – 2017 Standard Offer Service (SOS) and 2017 Renewable Energy Standard (RES) Procurement Plans Service List updated 3/8/17

Name/Address	E-mail Distribution	Phone
Raquel Webster, Esq.	Raquel.webster@nationalgrid.com;	781-907-2121
National Grid.	Celia.obrien@nationalgrid.com;	
280 Melrose St.	margaret.janzen@nationalgrid.com;	
Providence, RI 02907	Joanne.scanlon@nationalgrid.com;	
	James.Ruebenacker@nationalgrid.com;	
Leo Wold, Esq.	Lwold@riag.ri.gov;	401-274-4400
Dept. of Attorney General	Steve.scialabba@dpuc.ri.gov;	
150 South Main St.	Al.mancini@dpuc.ri.gov;	
Providence, RI 02903	Joseph.shilling@dpuc.ri.gov;	
	Jonathan.Schrag@dpuc.ri.gov;	
	dmacrae@riag.ri.gov;	
	jmunoz@riag.ri.gov;	
Richard Hahn	rhahn@daymarkea.com;	617-778-2467
Daymark Energy Advisors		
One Washington Mall, 9 th floor	mneal@daymarkea.com;	
Boston, MA 02108		
File an original & 9 copies w/:	Luly.massaro@puc.ri.gov;	401-780-2017
Luly E. Massaro, Commission Clerk	<u>Alan.nault@puc.ri.gov;</u>	
Public Utilities Commission	Todd.bianco@puc.ri.gov;	
89 Jefferson Blvd.	Cynthia.WilsonFrias@puc.ri.gov;	
Warwick, RI 02888	Linda.George@puc.ri.gov;	
Office of Energy Resources	Nicholas.ucci@energy.ri.gov;	
Nicholas Ucci	Christopher.Kearns@energy.ri.gov;	
Christopher Kearns	Danny.Musher@energy.ri.gov;	
Douglas Gablinske, TEC-RI	Doug@tecri.org;	401-741-5101

Request:

Regarding attachment 1 page 1, please provide any available supporting documentation for the REC prices of \$25.88 for new RECs and \$1.11 for existing RECs.

Response:

The estimated 2017 REC prices are calculated in the electronic spreadsheet titled, "RI RES Rate 2017 Div-Password", that was provided to the Division on March 3, 2017. The estimated 2017 REC prices for the Renewable Energy Standard are calculated on the tab titled, "REC Price Est."

Request:

Regarding attachment 1 page 1, please provide the calculations of the loss factor of 1.0648 in footnote 8.

Response:

The estimated loss factor of 1.0648 is calculated in the electronic spreadsheet titled "RI RES Rate 2017 Div-Password", which was provided to the Division on March 3, 2017. The estimated loss factor for the Renewable Energy Standard is calculated on the tab titled "Loss Factors."

Request:

Regarding attachment 1 page 2, please provide a detailed breakdown with all supporting documentation for the remaining expenses for obligation year 2016 of \$2,984,908.

Response:

The estimated remaining expenses for obligation year 2016 are calculated in the electronic spreadsheet titled "RI RES Rate 2017 Div-Password", which was provided to the Division on March 3, 2017. The remaining expenses of \$2,984,908 for the Renewable Energy Standard are calculated on the tab titled "Remaining Est."

Request:

Regarding attachment 1 page 2, please provide a detailed breakdown with all supporting documentation for the forecasted SOS KWH sales of 3,846,663,819. Also, provide actual SOS sales for the three most recent consecutive 12 month periods.

Response:

The calculation of the forecasted SOS kWh for the CY 16 reconciliation recovery period (April 1, 2017 through March 31, 2018) was provided in Docket No. 4691, 2017 Electric Retail Rate Filing, Schedule ASC-3, Page 2 of 3. The relevant page has been provided as Attachment DIV 2-4-A. SOS kWh deliveries for the three most recent consecutive 12-month periods are included in Attachment DIV 2-4-B.

The Narraganssett Electric Co. d/b/a National Grid RIPUC Docket No. 4605 In re: RES Charge and Reconciliation Filing Response to Division's Second Set of Data Requests Attachment DIV 2-4-A Page 1 of 1

> The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4691 2017 Electric Retail Rate Filing Schedule ASC-3 Page 2 of 3

Calculation of Forecasted Standard Offer Deliveries for the Period of April 1, 2017 through March 31, 2018

	Total				
	Res	Res Comm Ind		Forecasted kWhs	
Apr-2017	219,777,267	151,325,458	200,172,297	571,275,022	
May-2017	194,989,337	143,729,850	188,829,666	527,548,853	
Jun-2017	225,600,505	158,738,788	205,910,110	590,249,404	
Jul-2017	292,078,477	178,077,395	210,089,025	680,244,897	
Aug-2017	337,549,763	187,287,233	219,137,886	743,974,882	
Sep-2017	285,643,717	179,596,090	220,335,877	685,575,683	
Oct-2017	224,676,021	156,159,888	195,537,422	576,373,331	
Nov-2017	217,539,630	149,266,034	200,160,958	566,966,622	
Dec-2017	256,055,102	164,298,846	207,305,546	627,659,494	
Jan-2018	274,044,855	164,065,152	194,261,130	632,371,138	
Feb-2018	254,666,651	158,842,157	204,151,122	617,659,930	
Mar-2018	245,231,580	160,488,711	197,894,136	603,614,427	
	3,027,852,906	1,951,875,603	2,443,785,174	7,423,513,683	

(1)	Jan 2017 % of SOS kWhs to Total kWhs	87.23%	49.83%	9.53%
(2)	Jan17 SOS kWhs>>	238,033,788	82,156,524	19,219,143
(3)	Jan17 Total kWhs>>	272,887,415	164,878,599	201,626,386

Forecasted SOS kWhs Apr 2017-Mar2018:

	Forecasted 505 KWils Apr 2017-Mar2018.				
				Т	otal Forecasted SOS
		Res	Comm	Ind	kWhs
	Apr-2017	191,706,955	75,403,198	19,080,538	286,190,691
	May-2017	170,084,980	71,618,421	17,999,352	259,702,753
	Jun-2017	196,786,440	79,097,149	19,627,470	295,511,059
	Jul-2017	254,773,736	88,733,285	20,025,807	363,532,828
	Aug-2017	294,437,355	93,322,409	20,888,349	408,648,114
	Sep-2017	249,160,834	89,490,028	21,002,542	359,653,405
	Oct-2017	195,980,032	77,812,121	18,638,739	292,430,893
	Nov-2017	189,755,112	74,377,018	19,079,458	283,211,588
	Dec-2017	223,351,325	81,867,642	19,760,484	324,979,451
	Jan-2018	239,043,398	81,751,196	18,517,083	339,311,677
	Feb-2018	222,140,210	79,148,656	19,459,802	320,748,668
	Mar-2018	213,910,202	79,969,109	18,863,383	312,742,693
Total		2,641,130,580	972,590,232	232,943,007	3,846,663,819

Line Notes:

(4)

(1) Line (2) / Line (3)

(2) Company revenue reports

Total

(3) Company revenue reports

(4) Forecasted kWh x Line (1)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4605 In Re: 2017 Renewable Energy Standard Filing Responses to Division's Second Set of Data Requests Issued March 7, 2016 Attachment DIV 2-4-B

SOS	SOS kWh Sales for the period March 2014 through February 2015							
	Residential SOS	Commercial SOS	Industrial SOS					
	kWh	kWh	kWh	Total SOS kWhs				
Mar-14	259,233,264	104,497,587	72,758,335	436,489,186				
Apr-14	217,875,770	98,869,250	75,979,967	392,724,987				
May-14	201,060,388	99,085,977	71,748,942	371,895,307				
Jun-14	191,724,194	97,413,035	67,948,879	357,086,108				
Jul-14	260,682,358	113,126,146	71,034,283	444,842,787				
Aug-14	283,785,445	117,946,307	86,080,952	487,812,704				
Sep-14	258,801,530	112,739,450	74,620,382	446,161,362				
Oct-14	201,385,002	97,132,246	69,728,067	368,245,315				
Nov-14	198,846,084	99,501,143	67,720,339	366,067,566				
Dec-14	241,775,510	104,336,377	73,528,091	419,639,978				
Jan-15	272,937,073	105,860,703	64,171,388	442,969,164				
Feb-15	277,267,333	101,738,440	65,127,953	444,133,726				
Total	2,865,373,951	1,252,246,661	860,447,578	4,978,068,190				

SOS kWh Sales for the period March 2015 through February 2016

	Residential SOS	Commercial SOS	Industrial SOS	
	kWh	kWh	kWh	Total SOS kWhs
Mar-15	251,776,996	97,440,550	51,068,959	400,286,505
Apr-15	218,415,723	90,155,868	46,362,026	354,933,617
May-15	180,571,287	79,649,155	42,363,476	302,583,918
Jun-15	200,598,771	87,059,037	45,538,313	333,196,121
Jul-15	253,190,958	93,938,236	43,599,595	390,728,789
Aug-15	303,075,623	104,077,305	45,870,776	453,023,704
Sep-15	302,322,318	105,074,346	45,522,574	452,919,238
Oct-15	208,583,655	83,094,810	36,455,921	328,134,386
Nov-15	178,597,167	73,864,505	31,397,412	283,859,084
Dec-15	229,477,578	85,110,362	32,442,751	347,030,691
Jan-16	241,560,659	82,850,807	25,557,238	349,968,704
Feb-16	226,776,445	78,282,452	27,383,332	332,442,229
Total	2,794,947,180	1,060,597,433	473,562,373	4,329,106,986

	Residential SOS	Commercial	Industrial SOS	
	kWh	SOS kWh	kWh	Total SOS kWhs
Mar-16	219,779,483	83,204,675	26,634,107	329,618,265
Apr-16	182,812,636	76,803,377	29,423,022	289,039,035
May-16	166,445,212	68,994,928	25,257,862	260,698,002
Jun-16	213,464,192	79,977,916	21,490,629	314,932,737
Jul-16	263,728,031	91,215,824	21,597,411	376,541,266
Aug-16	323,187,899	99,283,079	21,621,241	444,092,219
Sep-16	284,094,258	95,825,524	21,620,124	401,539,906
Oct-16	197,285,996	77,678,425	21,273,358	296,237,779
Nov-16	180,445,380	70,372,620	17,442,183	268,260,183
Dec-16	208,037,873	73,809,492	17,313,963	299,161,328
Jan-17	238,146,788	82,156,001	18,938,756	339,241,545
Feb-17	219,709,824	80,000,260	17,009,557	316,719,641
Total	2,697,137,572	979,322,121	259,622,213	3,936,081,906

Request:

Regarding attachment 2 page 1, please provide the basis for the Jan 2016 beginning balance of \$11,755,820.

Response:

The \$11,755,820 beginning balance reflected in Attachment 2, Page 1, is the ending balance of CY 2015 RES reconciliation from the 2016 Renewable Energy Standard Charge and Reconciliation filing, RIPUC Docket No. 4556, dated February 2016, Attachment 2, page 1. The Company has included the relevant page as Attachment DIV 2-5.

The Narraganssett Electric Co. d/b/a National Grid RIPUC Docket No. 4605 In re: RES Charge and Reconciliation Filing Response to Division's Second Set of Data Requests Attachment DIV 2-5 Page 1 of 1

> The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4556 Attachment 2 Page 1 of 2

RENEWABLE ENERGY STANDARD RECONCILIATION For the Period January 1, 2015 through December 31, 2015

							Over(Under)
		Over(Under)			Long-Term		Ending
		Beginning	RES	RES	Contract REC	Monthly	Monthly
	Month	Balance	Revenue	Expense	Purchases	Over(Under)	Balance
		(a)	(b)	(c)	(d)	(e)	(f)
(1)	Jan-15	\$14,621,859	\$981,462	\$39,800	\$3,469,923	(\$2,528,261)	\$12,093,598
	Feb-15	\$12,093,598	\$2,131,781	\$0	\$0	\$2,131,781	\$14,225,379
	Mar-15	\$14,225,379	\$1,921,071	\$6,006	\$0	\$1,915,065	\$16,140,444
	Apr-15	\$16,140,444	\$1,454,008	\$27,876	\$3,079,496	(\$1,653,364)	\$14,487,081
	May-15	\$14,487,081	\$901,978	\$1,982,704	\$0	(\$1,080,726)	\$13,406,355
	Jun-15	\$13,406,355	\$979,969	\$1,964,148	\$0	(\$984,178)	\$12,422,176
	Jul-15	\$12,422,176	\$1,149,133	\$28,136	\$3,200,100	(\$2,079,103)	\$10,343,073
	Aug-15	\$10,343,073	\$1,331,623	\$0	\$0	\$1,331,623	\$11,674,696
	Sep-15	\$11,674,696	\$1,331,902	\$893,044	\$0	\$438,858	\$12,113,555
	Oct-15	\$12,113,555	\$964,957	\$0	\$3,331,378	(\$2,366,420)	\$9,747,134
	Nov-15	\$9,747,134	\$834,642	\$0	\$0	\$834,642	\$10,581,777
	Dec-15	\$10,581,777	\$1,020,392	\$756,000	\$0	\$264,392	\$10,846,169
(2)	Jan-16	\$10,846,169	\$582,929	\$0	\$0	\$582,929	\$11,429,098
7	Fotals	\$14,621,859	\$15,585,847	\$5,697,713	\$13,080,896	(\$3,192,761)	\$11,429,098
(3) I	nterest						\$326,722
H	Ending Balanc	ce with Interest					\$11,755,820

(1) Reflects kWhs consumption after January 1st.

(2) Reflects kWhs consumption prior to January 1st.

(3) [(Beginning Balance + Ending Balance) ÷ 2] x [(2.35% x 2/12) + (2.54% x 10/12)]

Column Notes:

Column (a) Column (e) from previous row; beginning balance from Renewable Energy Standard Charge and Reconciliation filing, RIPUC Docket No. 4490, dated February 2015, Attachment 2, page 1

Column (b) From monthly revenue reports

Column (c) From invoices

Column (d) Transfer of RECs per Long-term Contracting for Renewable Energy Recovery Provision

Column (e) Column (b) - Column (c) - Column (d)

Column (f) Column (a) + Column (e)

Request:

Regarding attachment 2 page 1 column (b), please provide a breakdown of the monthly RES revenue, including but not limited to the KWHs and the rates used to calculate these revenues.

Response:

The monthly revenues are shown in the electronic spreadsheet titled "NECO_Recs_RES_2016_Div", which was provided to the Division on March 3, 2017.

Revenues billed for the Renewable Energy Standard are shown on the tab titled "Input-Rev" in Table B. These revenues are not calculated directly in the reconciliation; instead, they are provided via monthly reports that are generated by the Company's billing system. Calculations for the revenue proration for the first and last months of the reconciliation period are shown in the non-printable area of the "RES P1" tab of the same spreadsheet.

Request:

Regarding attachment 2 page 1 columns (c), please provide a breakdown of the RES expenses.

Response:

The RES expenses are calculated in the electronic spreadsheet titled "RI RES Rate 2017 Div-Password", which was provided to the Division on March 3, 2017. The RES expenses of \$2,885,153 for the Renewable Energy Standard Reconciliation are calculated on the tab titled "RES Exp."

Request:

Regarding attachment 2 page 1 columns (d), please provide a breakdown of the REC purchases under long-term contracts, including but not limited to the volume of RECs and the price paid.

Response:

The REC expenses from long-term contracts and the RE Growth program are calculated in the electronic spreadsheet titled "RI RES Rate 2017 Div-Password", which was provided to the Division on March 3, 2017. The REC expenses totaling \$9,010,172 for the Renewable Energy Standard Reconciliation are calculated on the tab titled "LTC & REG."