

January 17, 2013

**VIA HAND DELIVERY & ELECTRONIC MAIL**

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

**Re: Docket 4371 - Long-Term Contracting for Renewable Energy Recovery Factor  
Response to Commission Data Requests – Set 3**

Dear Ms. Massaro:

Enclosed is National Grid's<sup>1</sup> response to the Commission's Third Set of Data Requests concerning the above-referenced proceeding.

Thank you for your attention to this filing. Please feel free to contact me if you have any questions concerning this matter at (401) 784-7288.

Very truly yours,



Jennifer Brooks Hutchinson, Esq.

Enclosures

cc: Docket 4371 Service List  
Steve Scialabba, Division  
Leo Wold, Esq.

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

Commission 3-1

Request:

Please provide a projection of the above-market premium of the pricing for each project with which National Grid has entered an agreement to purchase power, the costs of which will be recovered through the LTCRER Tariff. Please use the August 2012 ESAI market price forecast for energy RECs and capacity in the same format as the Company's response to Commission Record Request 5 in this docket.

Response:

Please see Attachment COMM 3-1.

Prepared by or under the supervision of: Corinne M. Abrams

Year	Deepwater Wind 30 MW Above Market Cost	Rhode Island Landfill Gas GenCo 32MW Above Market Cost	Orbit Energy HSAD Biogas 3.2 MW Above Market Cost	Black Bear Hydro 3.89 MW Above Market Cost	RI DG - Westerly Solar 1 MW Above Market Cost	RI DG - Plain Meeting House Solar 2 MW Above Market Cost	RI DG - North Kingstown Green Wind 1.5 MW Above Market Cost	RI DG - Forbes Street Solar 3.7 MW Above Market Cost	RI DG - West Davisville Solar 2.34 MW Above Market Cost	RI DG -100 Dupont 1.5 MW Above Market Cost	RI DG - Medium Solar 151-500 kW Above Market Cost	RI DG - Small Solar 10-150 kW Above Market Cost	Totals by Year Above Market Cost	Year
2011														2011
2012														2012
2013		\$3,184,006			\$93,131	\$303,201	\$78,177	\$337,442	\$177,736	\$88,188	\$516,667	\$20,941	\$4,799,490	2013
2014	\$3,076,618	\$4,460,300	(\$223,203)	(\$421,301)	\$193,383	\$411,171	\$85,135	\$599,743	\$372,535	\$187,572	\$1,037,082	\$42,007	\$9,821,042	2014
2015	\$13,854,508	\$3,853,785	(\$353,223)	(\$535,205)	\$185,530	\$395,344	\$67,322	\$571,199	\$354,561	\$176,306	\$1,005,603	\$40,813	\$19,616,543	2015
2016	\$13,784,781	\$2,411,908	(\$521,445)	(\$763,656)	\$173,454	\$371,071	\$38,304	\$526,983	\$326,701	\$158,702	\$957,908	\$39,011	\$17,503,721	2016
2017	\$14,436,729	\$2,576,330	(\$536,693)	(\$785,678)	\$169,394	\$362,829	\$29,994	\$512,501	\$317,595	\$153,118	\$940,036	\$38,327	\$18,214,482	2017
2018	\$15,060,266	\$2,621,297	(\$564,448)	(\$824,624)	\$164,677	\$353,275	\$19,856	\$495,581	\$306,951	\$146,548	\$919,640	\$37,547	\$18,736,566	2018
2019	\$15,445,987	\$2,005,751	(\$651,071)	(\$941,801)	\$156,875	\$337,551	\$1,574	\$467,212	\$289,086	\$135,347	\$894,478	\$36,590	\$18,177,580	2019
2020	\$15,689,108	\$976,893	(\$775,828)	(\$1,109,577)	\$147,099	\$317,879	(\$22,031)	\$431,516	\$266,600	\$121,182	\$865,086	\$35,474	\$16,943,402	2020
2021	\$16,097,069	\$271,329	(\$871,239)	(\$1,238,290)	\$138,843	\$301,250	(\$41,772)	\$401,460	\$247,670	\$109,297	\$840,668	\$34,544	\$16,290,830	2021
2022	\$16,433,909	(\$671,461)	(\$989,547)	(\$1,397,716)	\$129,417	\$282,279	(\$64,766)	\$367,056	\$225,998	\$95,652	\$813,071	\$33,496	\$15,257,388	2022
2023	\$18,327,568	\$1,877,676	(\$772,356)	(\$1,104,923)	\$136,925	\$297,179	(\$42,214)	\$395,477	\$243,952	\$107,406	\$850,780	\$34,892	\$20,352,362	2023
2024	\$20,357,412	\$4,714,361	(\$532,941)	(\$783,435)	\$145,467	\$314,147	(\$16,775)	\$427,731	\$264,323	\$120,710	\$887,191	\$36,240	\$25,934,430	2024
2025	\$22,481,906	\$7,713,816	(\$280,738)	(\$444,799)	\$154,528	\$332,152	\$10,262	\$461,906	\$285,905	\$134,788	\$923,528	\$37,585	\$31,810,839	2025
2026	\$23,747,064	\$8,685,958	(\$226,223)	(\$373,428)	\$153,629	\$330,238	\$10,235	\$459,127	\$284,180	\$133,924	\$920,259	\$37,448	\$34,162,412	2026
2027	\$25,054,230	\$9,677,276	(\$171,122)	(\$301,009)	\$152,705	\$328,276	\$10,138	\$456,254	\$282,395	\$133,021	\$916,928	\$37,308	\$36,576,401	2027
2028	\$26,115,981		(\$179,079)	(\$313,783)	\$64,435	\$50,365	\$1,304	\$141,275	\$113,499	\$48,875	\$450,545	\$18,350	\$26,511,767	2028
2029	\$27,188,501		(\$333,876)	(\$335,995)									\$26,518,630	2029
2030	\$28,302,013												\$28,302,013	2030
2031	\$29,458,144												\$29,458,144	2031
2032	\$30,657,524												\$30,657,524	2032
2033	\$31,903,997												\$31,903,997	2033
2034	\$24,421,130												\$24,421,130	2034
2035														2035
2036														2036
2037														2037
Total	\$431,894,445	\$54,359,226	(\$7,983,031)	(\$11,675,222)	\$2,359,492	\$5,088,207	\$164,742	\$7,052,462	\$4,359,687	\$2,050,635	\$13,739,471	\$560,576	\$501,970,691	
NPV	\$193,862,315	\$30,127,151	(\$4,825,672)	(\$7,102,053)	\$1,425,364	\$3,127,592	\$183,568	\$4,310,962	\$2,648,842	\$1,258,219	\$8,177,691	\$333,461	\$221,625,178	

**Notes:**

RI LTC & RI DG Contracts as of January 2012; approximately 53% of the 90 MW minimum requirement.  
Above market cost is calculated using market price forecasts for energy, capacity and RECs provided by ESAI in July 2012.  
Capacity factors for the FCM and annual output have been estimated for the given technology and location.  
The individual projects in the "Small" and "Medium" RI DG Solar Classes were combined in the applicable columns above.

Certificate of Service

I hereby certify that a copy of the cover letter and/or any materials accompanying this certificate were electronically transmitted to the individuals listed below. Paper copies of this filing were hand delivered to the Rhode Island Public Utilities Commission.



January 17, 2013

Joanne M. Scanlon  
National Grid

Date

**Docket No. 4371 - National Grid – Tariff Advice Filing to Amend Long-Term Contracting for Renewable Energy Recovery Factor effective 01/01/13  
Service List updated 11/21/12**

<b>Name/Address</b>	<b>E-mail Distribution</b>	<b>Phone</b>
Jennifer Brooks Hutchinson, Esq. National Grid 280 Melrose St. Providence, RI 02907	<a href="mailto:Jennifer.hutchinson@nationalgrid.com">Jennifer.hutchinson@nationalgrid.com</a>	401-784-7288
	<a href="mailto:Thomas.teehan@nationalgrid.com">Thomas.teehan@nationalgrid.com</a>	
	<a href="mailto:Celia.obrien@nationalgrid.com">Celia.obrien@nationalgrid.com</a>	
	<a href="mailto:Joanne.scanlon@nationalgrid.com">Joanne.scanlon@nationalgrid.com</a>	
Jon Hagopian, Esq. Division of Public Utilities & Carriers 89 Jefferson Blvd. Warwick, RI 02888	<a href="mailto:jhagopian@ripuc.state.ri.us">jhagopian@ripuc.state.ri.us</a>	401-222-2424
	<a href="mailto:Dstearns@ripuc.state.ri.us">Dstearns@ripuc.state.ri.us</a>	
	<a href="mailto:Sscialabba@ripuc.state.ri.us">Sscialabba@ripuc.state.ri.us</a>	
Karen Lyons, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903	<a href="mailto:klyons@riag.ri.gov">klyons@riag.ri.gov</a>	
	<a href="mailto:Lwold@riag.ri.gov">Lwold@riag.ri.gov</a>	
	<a href="mailto:dmacrae@riag.ri.gov">dmacrae@riag.ri.gov</a>	
	<a href="mailto:jmunoz@riag.ri.gov">jmunoz@riag.ri.gov</a>	
Richard Hahn LaCapra Associates One Washington Mall, 9 <sup>th</sup> floor Boston, MA 02108	<a href="mailto:rhahn@lacapra.com">rhahn@lacapra.com</a>	
<b>File an original &amp; 10 copies w/:</b> Luly E. Massaro, Commission Clerk Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	<a href="mailto:Lmassaro@puc.state.ri.us">Lmassaro@puc.state.ri.us</a>	401-780-2017
	<a href="mailto:Cwilson@puc.state.ri.us">Cwilson@puc.state.ri.us</a>	
	<a href="mailto:Adalessandro@puc.state.ri.us">Adalessandro@puc.state.ri.us</a>	
	<a href="mailto:Nucci@puc.state.ri.us">Nucci@puc.state.ri.us</a>	
	<a href="mailto:Anault@puc.state.ri.us">Anault@puc.state.ri.us</a>	
Christopher Kearns, Program Service Officer RI Office of Energy Resources	<a href="mailto:DShah@puc.state.ri.us">DShah@puc.state.ri.us</a>	
	<a href="mailto:Christopher.Kearns@energy.ri.gov">Christopher.Kearns@energy.ri.gov</a>	