

October 27, 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 5

Dear Ms. Massaro:

Enclosed is National Grid's¹ response to the Commission's Fifth 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

Enclosures

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

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

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.



October 25, 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**

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Commission 5-1

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 2013 ESAI market price forecast for energy RECs and capacity in the same format as the Company's response to Commission Post Hearing Data Request issued December 28, 2012.

Response:

Please see Attachment COMM 5-1(a) and Attachment COMM 5-1(b).

Attachment COMM 5-1(a) contains a summary of the above-market cost for the long-term contracts and distributed generation standard contracts by year. Attachment COMM 5-1(b) contains a detailed listing of the above-market cost by unit.

Note that the Company used a market price forecast provided by ESAI in October 2013.

Year	Long-term Contracts	DG Standard Contracts	Totals by Year
	Above Market Cost	Above Market Cost	Above Market Cost
2012	\$0	\$0	\$0
2013	\$1,514,429	\$479,181	\$1,993,610
2014	\$226,553	\$2,343,204	\$2,569,757
2015	(\$405,461)	\$2,695,491	\$2,290,030
2016	\$368,171	\$2,725,385	\$3,093,556
2017	(\$4,840,720)	\$2,652,462	(\$2,188,258)
2018	\$4,648,827	\$2,580,731	\$7,229,558
2019	\$4,517,214	\$2,499,874	\$7,017,088
2020	\$4,189,396	\$2,418,392	\$6,607,788
2021	\$3,249,766	\$2,336,275	\$5,586,041
2022	\$2,850,967	\$2,250,447	\$5,101,414
2023	\$17,539,342	\$2,847,916	\$20,387,258
2024	\$19,552,277	\$2,888,837	\$22,441,114
2025	\$19,621,567	\$2,822,723	\$22,444,290
2026	\$19,955,461	\$2,744,128	\$22,699,589
2027	\$20,344,383	\$2,664,680	\$23,009,062
2028	\$13,755,657	\$2,222,515	\$15,978,172
2029	\$12,875,464	\$384,338	\$13,259,801
2030	\$13,432,882	\$4,438	\$13,437,321
2031	\$14,218,691	\$0	\$14,218,691
2032	\$21,580,956	\$0	\$21,580,956
2033	\$25,085,949	\$0	\$25,085,949
2034	\$26,152,998	\$0	\$26,152,998
2035	\$27,268,649	\$0	\$27,268,649
2036	\$28,386,856	\$0	\$28,386,856
2037	\$29,613,196	\$0	\$29,613,196
Total	\$325,703,468	\$39,561,017	\$365,264,486
NPV (7%, 2013)	\$100,931,963	\$22,476,800	\$123,408,763

Notes:

-RI LTC & RI DG Contracts as of August 2013; approximately 74% of the 90 MW minimum requirement.

-Above market cost is calculated using market price forecasts for energy, capacity and RECs provided by ESAI in October 2013

-Capacity factors for the FCM, commercial operation dates, and annual output have been estimated for the given projects' technology and location

Year	Deepwater Wind 30 MW	Rhode Island Landfill Gas GenCo 32MW	Orbit Energy HSAD Biogas 3.2 MW (\$95)	Black Bear Hydro 3.958 MW	Champlain (Bowers) Wind 48 MW	RI DG - Plain Meeting House Solar 2 MW	RI DG - ACP 28 Jacome Way 500 kW	RI DG - North Kingstown Green Wind 1.5 MW	RI DG - Forbes Street Solar 3.7 MW	RI DG - West Davisville Solar 2.34 MW	RI DG -100 Dupont 1.5 MW	RI DG - Altus Comtram Cable Plant 499 kW	RI DG - Cox Comm 181 kW	RI DG - Soltas 0 Martin 500 kW
	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$1,573,878	\$0	(\$59,449)	\$0	\$209,349	\$64,908	\$76,744	\$0	\$63,466	\$0	\$32,389	\$0	\$0
2014	\$0	\$979,858	\$0	(\$753,305)	\$0	\$385,302	\$121,467	\$49,154	\$550,937	\$341,723	\$139,636	\$121,224	\$36,642	\$101,222
2015	\$0	\$857,510	(\$458,122)	(\$904,849)	\$0	\$376,813	\$119,344	\$38,239	\$535,190	\$331,791	\$161,196	\$119,106	\$43,203	\$119,344
2016	\$0	\$1,771,359	(\$545,737)	(\$857,451)	\$0	\$379,046	\$119,903	\$41,111	\$539,333	\$334,404	\$162,871	\$119,663	\$43,405	\$119,903
2017	\$0	\$1,890,976	(\$568,017)	(\$882,442)	(\$5,281,237)	\$371,933	\$118,125	\$31,966	\$526,138	\$326,082	\$157,536	\$117,888	\$42,761	\$118,125
2018	\$11,508,919	\$2,169,106	(\$676,725)	(\$884,087)	(\$7,468,387)	\$364,936	\$116,375	\$22,970	\$513,159	\$317,896	\$152,289	\$116,143	\$42,128	\$116,375
2019	\$12,038,095	\$2,105,830	(\$717,194)	(\$937,375)	(\$7,972,142)	\$357,050	\$114,404	\$12,829	\$498,529	\$308,668	\$146,374	\$114,175	\$41,414	\$114,404
2020	\$12,595,005	\$1,862,465	(\$777,120)	(\$1,015,980)	(\$8,474,974)	\$349,102	\$112,417	\$2,610	\$483,785	\$299,369	\$140,413	\$112,192	\$40,695	\$112,417
2021	\$12,460,210	\$1,707,566	(\$829,233)	(\$1,087,803)	(\$9,000,974)	\$341,092	\$110,414	(\$7,688)	\$468,927	\$289,997	\$134,405	\$110,193	\$39,970	\$110,414
2022	\$12,926,957	\$1,491,253	(\$888,666)	(\$1,162,717)	(\$9,515,860)	\$332,720	\$108,321	(\$18,452)	\$453,397	\$280,202	\$128,126	\$108,105	\$39,212	\$108,321
2023	\$16,263,823	\$7,748,449	(\$322,178)	(\$401,130)	(\$5,749,622)	\$390,998	\$122,891	\$56,478	\$561,504	\$348,388	\$171,835	\$122,645	\$44,486	\$122,891
2024	\$17,194,641	\$8,491,171	(\$292,446)	(\$359,474)	(\$5,481,616)	\$394,990	\$123,889	\$61,610	\$568,909	\$353,058	\$174,829	\$123,641	\$44,848	\$123,889
2025	\$17,811,015	\$8,450,121	(\$338,908)	(\$418,869)	(\$5,881,792)	\$388,541	\$122,276	\$53,318	\$556,946	\$345,513	\$169,992	\$122,032	\$44,264	\$122,276
2026	\$18,546,386	\$8,604,548	(\$366,329)	(\$455,117)	(\$6,374,027)	\$380,875	\$120,360	\$43,462	\$542,725	\$336,543	\$164,242	\$120,119	\$43,570	\$120,360
2027	\$19,318,801	\$8,779,857	(\$393,022)	(\$490,258)	(\$6,870,995)	\$373,125	\$118,422	\$33,498	\$528,349	\$327,476	\$158,430	\$118,186	\$42,869	\$118,422
2028	\$20,176,885	\$1,799,876	(\$408,553)	(\$504,844)	(\$7,307,707)	\$183,232	\$58,379	\$4,156	\$515,992	\$266,402	\$153,434	\$87,393	\$42,266	\$116,757
2029	\$21,064,869	\$0	(\$425,493)	\$0	(\$7,763,912)	\$0	\$0	\$0	\$0	\$0	\$24,709	\$0	\$6,940	\$19,172
2030	\$22,006,654	\$0	(\$382,352)	\$0	(\$8,191,420)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$22,927,845	\$0	\$0	\$0	(\$8,709,154)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$23,891,248	\$0	\$0	\$0	(\$2,310,292)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$25,085,949	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$26,152,998	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$27,268,649	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$28,386,856	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$29,613,196	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$397,239,002	\$60,283,823	(\$8,390,096)	(\$11,075,150)	(\$112,354,112)	\$5,579,104	\$1,771,894	\$502,005	\$7,843,821	\$4,870,978	\$2,340,318	\$1,765,092	\$638,674	\$1,764,292
NPV (7%, 2013)	\$134,086,317	\$29,340,778	(\$4,542,229)	(\$6,649,962)	(\$51,302,942)	\$3,284,900	\$1,042,719	\$317,995	\$4,451,426	\$2,799,804	\$1,313,433	\$1,020,231	\$358,459	\$990,219

Notes:

RI LTC & RI DG Contracts as of August 2013; approximately 74% of the 90 MW minimum requirement.
Above market cost is calculated using market price forecasts for energy, capacity and RECs provided by ESI in October 2013
Capacity factors for the FCM, commercial operation dates, and annual output have been estimated for the given projects' technology and location

Year	RI DG - Soltas 225 Dupont 300 kW	RI DG - Soltas 45 Bank 500 kW	RI DG - Soltas 35 Martin 500 kW	RI DG - Cox Comm 498 kW	RI DG - Venti Bonollo Solar 149 kW	RI DG - Brickle Group 1.08 MW	RI DG - Gannon & Scott 406 kW	RI DG - All American Solar 331 kW	RI DG - TEAM 182 kW	RI DG - CMS 128 kW	RI DG - Newport Vineyard 53 kW	RI DG - WED Coventry 1.5 MW	Totals by Year Above Market Cost
	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost	Above Market Cost
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$32,324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,993,610
2014	\$60,733	\$101,222	\$101,222	\$120,981	\$32,829	\$22,263	\$20,674	\$16,855	\$9,491	\$6,675	\$2,951	\$0	\$2,569,757
2015	\$71,607	\$119,344	\$119,344	\$118,867	\$38,762	\$84,452	\$80,974	\$66,016	\$37,192	\$26,157	\$11,578	\$76,969	\$2,290,030
2016	\$71,942	\$119,903	\$119,903	\$119,423	\$38,929	\$85,663	\$81,428	\$66,386	\$37,395	\$26,300	\$11,637	\$86,838	\$3,093,556
2017	\$70,875	\$118,125	\$118,125	\$117,652	\$38,399	\$81,807	\$79,984	\$65,208	\$36,748	\$25,844	\$11,449	\$77,693	(\$2,188,258)
2018	\$69,825	\$116,375	\$116,375	\$115,910	\$37,878	\$78,015	\$78,563	\$64,050	\$36,111	\$25,397	\$11,263	\$68,697	\$7,229,558
2019	\$68,642	\$114,404	\$114,404	\$113,946	\$37,290	\$73,740	\$76,962	\$62,745	\$35,393	\$24,892	\$11,054	\$58,556	\$7,017,088
2020	\$67,450	\$112,417	\$112,417	\$111,967	\$36,698	\$69,433	\$75,349	\$61,430	\$34,670	\$24,383	\$10,844	\$48,338	\$6,607,788
2021	\$66,248	\$110,414	\$110,414	\$109,972	\$36,101	\$65,091	\$73,723	\$60,104	\$33,941	\$23,871	\$10,631	\$38,039	\$5,586,041
2022	\$64,993	\$108,321	\$108,321	\$107,888	\$35,478	\$60,554	\$72,023	\$58,719	\$33,179	\$23,335	\$10,410	\$27,275	\$5,101,414
2023	\$73,734	\$122,891	\$122,891	\$122,399	\$39,819	\$92,141	\$83,854	\$68,364	\$38,483	\$27,065	\$11,954	\$102,205	\$20,387,258
2024	\$74,333	\$123,889	\$123,889	\$123,393	\$40,117	\$94,304	\$84,664	\$69,024	\$38,846	\$27,320	\$12,060	\$107,337	\$22,441,114
2025	\$73,366	\$122,276	\$122,276	\$121,787	\$39,636	\$90,809	\$83,355	\$67,957	\$38,259	\$26,907	\$11,889	\$99,046	\$22,444,290
2026	\$72,216	\$120,360	\$120,360	\$119,878	\$39,065	\$86,654	\$81,799	\$66,688	\$37,561	\$26,417	\$11,686	\$89,189	\$22,699,589
2027	\$71,053	\$118,422	\$118,422	\$117,949	\$38,488	\$82,453	\$80,226	\$65,406	\$36,856	\$25,921	\$11,480	\$79,225	\$23,009,062
2028	\$70,054	\$116,757	\$116,757	\$87,218	\$37,991	\$78,843	\$78,873	\$64,303	\$36,250	\$25,494	\$11,304	\$70,660	\$15,978,172
2029	\$11,503	\$19,172	\$19,172	\$0	\$6,246	\$56,325	\$58,103	\$47,370	\$26,716	\$18,789	\$8,341	\$61,780	\$13,259,801
2030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,438	\$13,437,321
2031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,218,691
2032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,580,956
2033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,085,949
2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,152,998
2035	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,268,649
2036	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$28,386,856
2037	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,613,196
Total	\$1,058,575	\$1,764,292	\$1,764,292	\$1,761,555	\$573,727	\$1,202,546	\$1,190,556	\$970,625	\$547,090	\$384,766	\$170,530	\$1,096,287	\$365,264,486
NPV (7%, 2013)	\$594,131	\$990,219	\$990,219	\$1,018,186	\$322,009	\$647,926	\$642,082	\$523,471	\$295,057	\$207,512	\$91,974	\$574,830	\$123,408,763

Commission 5-2

Request:

For each project listed in the Company's response to COMM-5-1, please provide the total contract cost and the annual financial remuneration National Grid expects to receive for each contract for each year.

Response:

Please see Attachment COMM 5-2(a) and Attachment COMM 5-2(b).

Attachment COMM 5-2(a) contains a summary of the contract cost and annual financial remuneration for the long-term contracts and distributed generation standard contracts by year. Attachment COMM 5-2(b) contains a detailed listing of the contract cost and annual financial remuneration by unit.

Year	Long-term Contracts		DG Standard Contracts		Totals by Year	
	Contract Cost	Remuneration	Contract Cost	Remuneration	Total Contract Cost	Total Remuneration
2012	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$17,594,044	\$483,836	\$994,930	\$27,361	\$18,588,974	\$511,197
2014	\$32,984,253	\$907,067	\$4,612,037	\$126,831	\$37,596,290	\$1,033,898
2015	\$35,444,497	\$974,724	\$5,715,664	\$157,181	\$41,160,162	\$1,131,904
2016	\$36,868,608	\$1,013,887	\$5,754,559	\$158,250	\$42,623,167	\$1,172,137
2017	\$47,074,221	\$1,294,541	\$5,754,559	\$158,250	\$52,828,780	\$1,452,791
2018	\$75,871,666	\$2,086,471	\$5,754,559	\$158,250	\$81,626,225	\$2,244,721
2019	\$77,678,503	\$2,136,159	\$5,754,559	\$158,250	\$83,433,061	\$2,294,409
2020	\$79,538,635	\$2,187,312	\$5,754,559	\$158,250	\$85,293,193	\$2,345,563
2021	\$81,453,687	\$2,239,976	\$5,754,559	\$158,250	\$87,208,246	\$2,398,227
2022	\$83,425,335	\$2,294,197	\$5,754,559	\$158,250	\$89,179,894	\$2,452,447
2023	\$85,455,308	\$2,350,021	\$5,754,559	\$158,250	\$91,209,867	\$2,508,271
2024	\$87,545,389	\$2,407,498	\$5,754,559	\$158,250	\$93,299,947	\$2,565,749
2025	\$89,697,416	\$2,466,679	\$5,754,559	\$158,250	\$95,451,975	\$2,624,929
2026	\$91,913,288	\$2,527,615	\$5,754,559	\$158,250	\$97,667,846	\$2,685,866
2027	\$94,194,960	\$2,590,361	\$5,754,559	\$158,250	\$99,949,518	\$2,748,612
2028	\$71,111,605	\$1,955,569	\$4,759,629	\$130,890	\$75,871,233	\$2,086,459
2029	\$51,490,094	\$1,415,978	\$1,142,521	\$31,419	\$52,632,615	\$1,447,397
2030	\$50,593,339	\$1,391,317	\$38,894	\$1,070	\$50,632,233	\$1,392,386
2031	\$51,163,423	\$1,406,994	\$0	\$0	\$51,163,423	\$1,406,994
2032	\$43,209,450	\$1,188,260	\$0	\$0	\$43,209,450	\$1,188,260
2033	\$41,509,756	\$1,141,518	\$0	\$0	\$41,509,756	\$1,141,518
2034	\$42,962,598	\$1,181,471	\$0	\$0	\$42,962,598	\$1,181,471
2035	\$44,466,288	\$1,222,823	\$0	\$0	\$44,466,288	\$1,222,823
2036	\$46,022,609	\$1,265,622	\$0	\$0	\$46,022,609	\$1,265,622
2037	\$47,633,400	\$1,309,918	\$0	\$0	\$47,633,400	\$1,309,918

Notes:

- RI LTC & RI DG Contracts as of August 2013; approximately 74% of the 90 MW minimum requirement.
- Above market cost is calculated using market price forecasts for energy, capacity and RECs provided by ESAI in October 2013
- Capacity factors for the FCM, commercial operation dates, and annual output have been estimated for the given projects' technology and location

Year	Deepwater Wind 30 MW		Rhode Island Landfill Gas GenCo 32MW		Orbit Energy HSAD Biogas 3.2 MW (\$95)		Black Bear Hydro 3.958 MW		Champlain (Bowers) Wind 48 MW	
	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$17,119,813	\$470,795	\$0	\$0	\$474,231	\$13,041	\$0	\$0
2014	\$0	\$0	\$30,081,957	\$827,254	\$0	\$0	\$2,902,296	\$79,813	\$0	\$0
2015	\$0	\$0	\$30,834,006	\$847,935	\$1,650,150	\$45,379	\$2,960,342	\$81,409	\$0	\$0
2016	\$0	\$0	\$31,604,856	\$869,134	\$2,244,204	\$61,716	\$3,019,549	\$83,038	\$0	\$0
2017	\$0	\$0	\$32,394,977	\$890,862	\$2,289,088	\$62,950	\$3,079,939	\$84,698	\$9,310,217	\$256,031
2018	\$24,776,784	\$681,362	\$33,204,852	\$913,133	\$2,334,870	\$64,209	\$3,141,538	\$86,392	\$12,413,622	\$341,375
2019	\$25,643,971	\$705,209	\$34,034,973	\$935,962	\$2,381,567	\$65,493	\$3,204,369	\$88,120	\$12,413,622	\$341,375
2020	\$26,541,510	\$729,892	\$34,885,847	\$959,361	\$2,429,199	\$66,803	\$3,268,456	\$89,883	\$12,413,622	\$341,375
2021	\$27,470,463	\$755,438	\$35,757,994	\$983,345	\$2,477,783	\$68,139	\$3,333,826	\$91,680	\$12,413,622	\$341,375
2022	\$28,431,930	\$781,878	\$36,651,943	\$1,007,928	\$2,527,338	\$69,502	\$3,400,502	\$93,514	\$12,413,622	\$341,375
2023	\$29,427,047	\$809,244	\$37,568,242	\$1,033,127	\$2,577,885	\$70,892	\$3,468,512	\$95,384	\$12,413,622	\$341,375
2024	\$30,456,994	\$837,567	\$38,507,448	\$1,058,955	\$2,629,443	\$72,310	\$3,537,882	\$97,292	\$12,413,622	\$341,375
2025	\$31,522,988	\$866,882	\$39,470,134	\$1,085,429	\$2,682,032	\$73,756	\$3,608,640	\$99,238	\$12,413,622	\$341,375
2026	\$32,626,293	\$897,223	\$40,456,888	\$1,112,564	\$2,735,672	\$75,231	\$3,680,813	\$101,222	\$12,413,622	\$341,375
2027	\$33,768,213	\$928,626	\$41,468,310	\$1,140,379	\$2,790,386	\$76,736	\$3,754,429	\$103,247	\$12,413,622	\$341,375
2028	\$34,950,101	\$961,128	\$17,710,424	\$487,037	\$2,846,193	\$78,270	\$3,191,265	\$87,760	\$12,413,622	\$341,375
2029	\$36,173,354	\$994,767	\$0	\$0	\$2,903,117	\$79,836	\$0	\$0	\$12,413,622	\$341,375
2030	\$37,439,422	\$1,029,584	\$0	\$0	\$740,295	\$20,358	\$0	\$0	\$12,413,622	\$341,375
2031	\$38,749,801	\$1,065,620	\$0	\$0	\$0	\$0	\$0	\$0	\$12,413,622	\$341,375
2032	\$40,106,045	\$1,102,916	\$0	\$0	\$0	\$0	\$0	\$0	\$3,103,406	\$85,344
2033	\$41,509,756	\$1,141,518	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$42,962,598	\$1,181,471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$44,466,288	\$1,222,823	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$46,022,609	\$1,265,622	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$47,633,400	\$1,309,918	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Notes:

RI LTC & RI DG Contracts as of August 2013; approximately 74% of the 90 MW minimum requirement.

Above market cost is calculated using market price forecasts for energy, capacity and RECs provided by ESAI in October 2013

Capacity factors for the FCM, commercial operation dates, and annual output have been estimated for the given projects' technology and location

Year	RI DG - Plain Meeting House Solar 2 MW		RI DG - ACP 28 Jacome Way 500 kW		RI DG - North Kingstown Green Wind 1.5 MW		RI DG - Forbes Street Solar 3.7 MW		RI DG - West Davisville Solar 2.34 MW		RI DG -100 Dupont 1.5 MW		RI DG - Altus Comtram Cable Plant 499 kW	
	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$337,260	\$9,275	\$96,886	\$2,664	\$350,838	\$9,648	\$0	\$0	\$113,351	\$3,117	\$0	\$0	\$48,346	\$1,330
2014	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$320,397	\$8,811	\$193,384	\$5,318
2015	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2016	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2017	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2018	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2019	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2020	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2021	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2022	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2023	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2024	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2025	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2026	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2027	\$674,520	\$18,549	\$193,771	\$5,329	\$421,006	\$11,578	\$1,087,437	\$29,905	\$680,108	\$18,703	\$384,476	\$10,573	\$193,384	\$5,318
2028	\$337,260	\$9,275	\$96,886	\$2,664	\$70,168	\$1,930	\$1,087,437	\$29,905	\$566,757	\$15,586	\$384,476	\$10,573	\$145,038	\$3,989
2029	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$64,079	\$1,762	\$0	\$0
2030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Year	RI DG - Cox Comm 181 kW		RI DG - Soltas 0 Martin 500 kW		RI DG - Soltas 225 Dupont 300 kW		RI DG - Soltas 45 Bank 500 kW		RI DG - Soltas 35 Martin 500 kW		RI DG - Cox Comm 498 kW		RI DG - Venti Bonollo Solar 149 kW	
	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48,249	\$1,327	\$0	\$0
2014	\$58,454	\$1,607	\$161,476	\$4,441	\$96,886	\$2,664	\$161,476	\$4,441	\$161,476	\$4,441	\$192,996	\$5,307	\$50,785	\$1,397
2015	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2016	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2017	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2018	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2019	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2020	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2021	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2022	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2023	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2024	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2025	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2026	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2027	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$192,996	\$5,307	\$60,942	\$1,676
2028	\$70,145	\$1,929	\$193,771	\$5,329	\$116,263	\$3,197	\$193,771	\$5,329	\$193,771	\$5,329	\$144,747	\$3,981	\$60,942	\$1,676
2029	\$11,691	\$321	\$32,295	\$888	\$19,377	\$533	\$32,295	\$888	\$32,295	\$888	\$0	\$0	\$10,157	\$279
2030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Year	RI DG - Brickle Group 1.08 MW		RI DG - Gannon & Scott 406 kW		RI DG - All American Solar 331 kW		RI DG - TEAM 182 kW		RI DG - CMS 128 kW		RI DG - Newport Vineyard 53 kW		RI DG - WED Coventry 1.5 MW	
	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration	Contract Cost	Remuneration
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$61,452	\$1,690	\$35,352	\$972	\$28,822	\$793	\$16,071	\$442	\$11,303	\$311	\$4,867	\$134	\$0	\$0
2015	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$427,838	\$11,766
2016	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2017	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2018	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2019	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2020	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2021	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2022	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2023	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2024	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2025	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2026	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2027	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2028	\$245,809	\$6,760	\$141,409	\$3,889	\$115,287	\$3,170	\$64,283	\$1,768	\$45,210	\$1,243	\$19,467	\$535	\$466,733	\$12,835
2029	\$184,357	\$5,070	\$106,057	\$2,917	\$86,465	\$2,378	\$48,212	\$1,326	\$33,908	\$932	\$14,600	\$402	\$466,733	\$12,835
2030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,894	\$1,070
2031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0