

February 12, 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 4**

Dear Ms. Massaro:

Enclosed is National Grid's¹ response to the Commission's Fourth 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.

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.



February 12, 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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Request:

For each project listed in the Company’s response to COM-3-1, filed on January 17, 2013, please provide the total contract cost and the annual financial remuneration National Grid expects to receive for each contract for each year.

Response:

The tables below reflect the total contract cost and financial remuneration for each contract for each year.

Note that no projects have begun commercial operation to-date; the annual outputs and Commercial Operation Dates have been estimated for purposes of the calculations shown in the tables below. The individual projects in the “Small” and “Medium” RI DG classes are combined into the applicable tables below.

Deepwater Wind		
Year	Contract Cost	Remuneration
2014	\$6,194,196	\$170,340
2015	\$25,643,971	\$705,209
2016	\$26,541,510	\$729,892
2017	\$27,470,463	\$755,438
2018	\$28,431,930	\$781,878
2019	\$29,427,047	\$809,244
2020	\$30,456,994	\$837,567
2021	\$31,522,988	\$866,882
2022	\$32,626,293	\$897,223
2023	\$33,768,213	\$928,626
2024	\$34,950,101	\$961,128
2025	\$36,173,354	\$994,767
2026	\$37,439,422	\$1,029,584
2027	\$38,749,801	\$1,065,620
2028	\$40,106,045	\$1,102,916
2029	\$41,509,756	\$1,141,518
2030	\$42,962,598	\$1,181,471
2031	\$44,466,288	\$1,222,823
2032	\$46,022,609	\$1,265,622
2033	\$47,633,400	\$1,309,918
2034	\$36,975,427	\$1,016,824

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Deepwater Wind (continued)		
Total	\$719,072,407	\$19,774,491
NPV	\$335,465,435	\$9,225,299

Rhode Island Landfill Gas GenCo		
Year	Contract Cost	Remuneration
2013	\$29,348,251	\$807,077
2014	\$30,081,957	\$827,254
2015	\$30,834,006	\$847,935
2016	\$31,604,856	\$869,134
2017	\$32,394,977	\$890,862
2018	\$33,204,852	\$913,133
2019	\$34,034,973	\$935,962
2020	\$34,885,847	\$959,361
2021	\$35,757,994	\$983,345
2022	\$36,651,943	\$1,007,928
2023	\$37,568,242	\$1,033,127
2024	\$38,507,448	\$1,058,955
2025	\$39,470,134	\$1,085,429
2026	\$40,456,888	\$1,112,564
2027	\$41,468,310	\$1,140,379
Total	\$526,270,677	\$14,472,444
NPV	\$309,832,804	\$8,520,402

Orbit Energy HSAD Biogas		
Year	Contract Cost	Remuneration
2014	\$1,650,150	\$45,379
2015	\$2,244,204	\$61,716
2016	\$2,289,088	\$62,950
2017	\$2,334,870	\$64,209
2018	\$2,381,567	\$65,493
2019	\$2,429,199	\$66,803
2020	\$2,477,783	\$68,139
2021	\$2,527,338	\$69,502
2022	\$2,577,885	\$70,892
2023	\$2,629,443	\$72,310

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Orbit Energy HSAD Biogas (continued)		
2024	\$2,682,032	\$73,756
2025	\$2,735,672	\$75,231
2026	\$2,790,386	\$76,736
2027	\$2,846,193	\$78,270
2028	\$2,903,117	\$79,836
2029	\$740,295	\$20,358
Total	\$38,239,221	\$1,051,579
NPV	\$22,275,343	\$612,572

Black Bear Hydro		
Year	Contract Cost	Remuneration
2014	\$2,845,388	\$78,248
2015	\$2,902,296	\$79,813
2016	\$2,960,342	\$81,409
2017	\$3,019,549	\$83,038
2018	\$3,079,939	\$84,698
2019	\$3,141,538	\$86,392
2020	\$3,204,369	\$88,120
2021	\$3,268,456	\$89,883
2022	\$3,333,826	\$91,680
2023	\$3,400,502	\$93,514
2024	\$3,468,512	\$95,384
2025	\$3,537,882	\$97,292
2026	\$3,608,640	\$99,238
2027	\$3,680,813	\$101,222
2028	\$3,754,429	\$103,247
2029	\$3,829,518	\$105,312
Total	\$53,035,999	\$1,458,490
NPV	\$30,445,082	\$837,240

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RI DG - Westerly Solar 1 MW		
Year	Contract Cost	Remuneration
2013	\$162,498	\$4,469
2014	\$323,371	\$8,893
2015	\$321,754	\$8,848
2016	\$320,145	\$8,804
2017	\$318,545	\$8,760
2018	\$316,952	\$8,716
2019	\$315,367	\$8,673
2020	\$313,790	\$8,629
2021	\$312,221	\$8,586
2022	\$310,660	\$8,543
2023	\$309,107	\$8,500
2024	\$307,561	\$8,458
2025	\$306,024	\$8,416
2026	\$304,494	\$8,374
2027	\$302,971	\$8,332
2028	\$150,728	\$4,145
Total	\$4,696,189	\$129,145
NPV	\$2,775,648	\$76,330

RI DG - Plain Meeting House Solar 2 MW		
Year	Contract Cost	Remuneration
2013	\$505,890	\$13,912
2014	\$671,147	\$18,457
2015	\$667,792	\$18,364
2016	\$664,453	\$18,272
2017	\$661,130	\$18,181
2018	\$657,825	\$18,090
2019	\$654,536	\$18,000
2020	\$651,263	\$17,910
2021	\$648,007	\$17,820
2022	\$644,767	\$17,731
2023	\$641,543	\$17,642
2024	\$638,335	\$17,554
2025	\$635,143	\$17,466

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RI DG - Plain Meeting House Solar 2 MW (continued)		
2026	\$631,968	\$17,379
2027	\$628,808	\$17,292
2028	\$156,416	\$4,301
Total	\$9,759,022	\$268,373
NPV	\$5,865,394	\$161,298

RI DG - North Kingstown Green Wind 1.5 MW		
Year	Contract Cost	Remuneration
2013	\$421,006	\$11,578
2014	\$421,006	\$11,578
2015	\$421,006	\$11,578
2016	\$421,006	\$11,578
2017	\$421,006	\$11,578
2018	\$421,006	\$11,578
2019	\$421,006	\$11,578
2020	\$421,006	\$11,578
2021	\$421,006	\$11,578
2022	\$421,006	\$11,578
2023	\$421,006	\$11,578
2024	\$421,006	\$11,578
2025	\$421,006	\$11,578
2026	\$421,006	\$11,578
2027	\$421,006	\$11,578
2028	\$421,006	\$11,578
Total	\$6,736,090	\$185,242
NPV	\$3,977,092	\$109,370

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RI DG - Forbes Street Solar 3.7 MW		
Year	Contract Cost	Remuneration
2013	\$634,338	\$17,444
2014	\$1,081,999	\$29,755
2015	\$1,076,589	\$29,606
2016	\$1,071,206	\$29,458
2017	\$1,065,850	\$29,311
2018	\$1,060,521	\$29,164
2019	\$1,055,219	\$29,019
2020	\$1,049,943	\$28,873
2021	\$1,044,693	\$28,729
2022	\$1,039,469	\$28,585
2023	\$1,034,272	\$28,442
2024	\$1,029,101	\$28,300
2025	\$1,023,955	\$28,159
2026	\$1,018,835	\$28,018
2027	\$1,013,741	\$27,878
2028	\$420,280	\$11,558
Total	\$15,720,013	\$432,300
NPV	\$9,343,537	\$256,947

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RI DG - West Davisville Solar 2.34 MW		
Year	Contract Cost	Remuneration
2013	\$340,054	\$9,351
2014	\$676,708	\$18,609
2015	\$673,324	\$18,516
2016	\$669,958	\$18,424
2017	\$666,608	\$18,332
2018	\$663,275	\$18,240
2019	\$659,958	\$18,149
2020	\$656,659	\$18,058
2021	\$653,375	\$17,968
2022	\$650,108	\$17,878
2023	\$646,858	\$17,789
2024	\$643,624	\$17,700
2025	\$640,405	\$17,611
2026	\$637,203	\$17,523
2027	\$634,017	\$17,435
2028	\$315,424	\$8,674
Total	\$9,827,557	\$270,258
NPV	\$5,808,506	\$159,734

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RI DG -100 Dupont 1.5 MW		
Year	Contract Cost	Remuneration
2013	\$192,238	\$5,287
2014	\$382,554	\$10,520
2015	\$380,641	\$10,468
2016	\$378,738	\$10,415
2017	\$376,844	\$10,363
2018	\$374,960	\$10,311
2019	\$373,085	\$10,260
2020	\$371,220	\$10,209
2021	\$369,364	\$10,158
2022	\$367,517	\$10,107
2023	\$365,679	\$10,056
2024	\$363,851	\$10,006
2025	\$362,032	\$9,956
2026	\$360,222	\$9,906
2027	\$358,420	\$9,857
2028	\$178,314	\$4,904
Total	\$5,555,680	\$152,781
NPV	\$3,283,644	\$90,300

RI DG - Medium Solar 151-500 kW		
Year	Contract Cost	Remuneration
2013	\$771,209	\$21,208
2014	\$1,534,707	\$42,204
2015	\$1,527,033	\$41,993
2016	\$1,519,398	\$41,783
2017	\$1,511,801	\$41,575
2018	\$1,504,242	\$41,367
2019	\$1,496,721	\$41,160
2020	\$1,489,237	\$40,954
2021	\$1,481,791	\$40,749
2022	\$1,474,382	\$40,546
2023	\$1,467,010	\$40,343
2024	\$1,459,675	\$40,141
2025	\$1,452,377	\$39,940

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RI DG - Medium Solar 151-500 kW (continued)		
2026	\$1,445,115	\$39,741
2027	\$1,437,889	\$39,542
2028	\$715,350	\$19,672
Total	\$22,287,937	\$612,918
NPV	\$13,173,122	\$362,261

RI DG - Small Solar 10-150 kW		
Year	Contract Cost	Remuneration
2013	\$30,471	\$838
2014	\$60,637	\$1,668
2015	\$60,334	\$1,659
2016	\$60,032	\$1,651
2017	\$59,732	\$1,643
2018	\$59,433	\$1,634
2019	\$59,136	\$1,626
2020	\$58,840	\$1,618
2021	\$58,546	\$1,610
2022	\$58,253	\$1,602
2023	\$57,962	\$1,594
2024	\$57,672	\$1,586
2025	\$57,384	\$1,578
2026	\$57,097	\$1,570
2027	\$56,812	\$1,562
2028	\$28,264	\$777
Total	\$880,606	\$24,217
NPV	\$520,476	\$14,313

Prepared by or under the supervision of:
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