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Also admitted in Massachusetts

December 14, 2021

BY HAND DELIVERY AND ELECTRONIC MAIL

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

RE: Docket No. 5201- Long-Term Contracting for Renewable Energy Recovery Factor

Dear Ms. Massaro:

On behalf of National Grid,¹ enclosed please find the Company's responses to the First Set of Data Requests issued by the Public Utilities Commission in the above-referenced matter.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-709-3337.

Sincerely,



Leticia C. Pimentel

Enclosures

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

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

**Docket No. 5201 – National Grid – LTC Recovery Factor
Service List updated 11/15/2021**

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The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 5201
In Re: National Grid’s Long-Term Contracting for
Renewable Energy Recovery Factor
Responses to Commission Staff’s First Set of Data Requests
Issued December 3, 2021

PUC 1-1

Request:

Referencing page 2 of 6 in Attachment 1 of both the current filing and National Grid’s analogous filing made on November 13, 2020 in Docket No. 5085, please explain why expected output of the generation fleet over the January to June 2022 period is lower than the expected output over January to June 2021 period even though the fleet has grown from last year to today. Please provide facility-specific responses.

Response:

The Estimated Six-Month Output (MWh) is estimated by multiplying each Unit’s Capacity (MW) by each Unit’s Factor percentage by 8,760 hours divided by 2. The Unit Factor percentage is often calculated from the prior 12 months of generation, but occasionally the Unit Factor is estimated from other sources.

There are 26 solar units with executed contracts pursuant to the Distributed Generation Standard Contracts Act. The Company aggregates all generation from the 26 solar units and calculates one Unit Factor to estimate the output over a Pricing Period. The Unit Factors in the November 13, 2020 filing in Docket No. 5085 and in this filing were both 13%, and therefore the Estimated Six-Month Output for these 26 solar units did not change.

The Unit Factors for the following Units changed which impacted the Estimated Six-Month Output:

	Unit	First Half 2021		First Half 2022		Difference	
		Unit Factor	Estimated Six-Month Output (MWh)	Unit Factor	Estimated Six-Month Output (MWh)	Unit Factor	Estimated Six-Month Output (MWh)
(1)	RI LFG Genco Asset No. 40054	78%	109,666	68%	95,607	-10%	(14,060)
(2)	Wind Energy Dev. NK Green LLC Asset No. 42394	21%	1,380	20%	1,314	-1%	(66)
(8)	Black Bear Orono B Hydro Asset No. 68728	70%	12,135	44%	7,628	-26%	(4,507)
(29)	Deepwater Wind Asset No. 38495	46%	60,444	36%	47,304	-10%	(13,140)
(30)	Orbit Energy Asset No. 50057	18%	2,523	8%	1,121	-10%	(1,402)
(32)	Copenhagen Wind Farm	35%	122,487	31%	108,488	-4%	(13,998)
(33)	Woods Hill Solar Asset No. 49370	17%	1,117	15%	986	-2%	(131)
(34)	Hope Farm Solar Asset No. 49029	17%	3,723	18%	3,942	1%	219
(35)	Sanford Airport Solar Asset No. 68737	17%	2,755	19%	3,079	2%	324

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Typically, the Unit Factor percentage is calculated for each Unit based on its historical generation. One exception is when there is not a full year of historical generation, in which case the Company would estimate the Unit Factor in some other way. The Unit Factors in the 2020 filing for Sanford Airport Solar (Commercial Operation Date ("COD") November 19, 2020) and Hope Farm Solar (COD December 17, 2019) are instances when 12 months of generation from COD were not available at the time of the filing. For these Units, the Company utilized the Unit Factor of Woods Hill Solar as a proxy. Similarly, Orbit Energy had not consistently generated in the prior 12 months in the 2020 filing and the Company utilized a generation forecast provided by the Unit to estimate the Unit Factor. For these three Units, the estimated Unit Factors in the 2021 filing were calculated with actual generation.

Year over year changes in Unit Factors may also be the result of weather or repairs and maintenance of Units. Black Bear Orono B Hydro is located in Maine which experienced a drought which impacted generation. Deepwater Wind and RI LFG Genco both had more maintenance in the last year which impacted generation compared to the prior year.

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PUC 1-2

Request:

Has the change in expected output referenced in PUC 1-1 effected National Grid's strategy in the Forward Capacity Market or the ability of facilities to perform in the Forward Capacity Market?

Response:

Page 5 of Attachment 1 includes estimated capacity revenue that the Company expects to receive between January and June 2022 from 20 Units as part of the Company's approved program to bid capacity of customer-owned Distributed Generation ("DG") Units into the Forward Capacity Market ("FCM").¹ As explained in the Company's response to PUC 1-1, the expected output for the DG solar units in the November 13, 2020 filing in Docket No. 5085 and in this filing did not change. Therefore, the Company's strategy in the FCM for these DG Units remains unchanged.

The Company's response to PUC 1-1 lists nine Units whose generation forecasts changed in this filing compared to last year's filing. Of those nine, only two (RI LFG Genco and Deepwater Wind) have Capacity Supply Obligations ("CSOs") in the FCM. These CSOs are separate from the Company's approved program to bid capacity for DG Units and is managed by the specific Units.

¹ The Company's proposal was approved in Docket No. 4676