

August 18, 2020

VIA ELECTRONIC MAIL

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

RE: Docket 4770 – Electric Base Distribution Rates for Rate Year 3 – Compliance Filing Responses to PUC Data Requests – Set 2

Dear Ms. Massaro:

On behalf of National Grid,¹ I enclose an electronic version² of the Company's response to the Public Utilities Commission's Second Set of Data Requests issued in the above-referenced matter.

Thank you very much for your time and attention to this matter. If you have any questions, please contact me at 401-784-7288.

Very truly yours,

Kunfu Burg Hulle

Jennifer Brooks Hutchinson

Enclosures

cc: Docket 4770 Service List Linda George John Bell, Division Al Mancini, Division Leo Wold, Esq. Christy Hetherington, Esq.

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

² Due to the COVID-19 Pandemic emergency period, the Company is providing a PDF version of the abovereferenced transmittal. The Company will provide the PUC with a hard copy and, if needed, additional hard copies at a later date.

<u>PUC 2-1</u>

Request:

Referencing Schedule 6 of the Rate Year 3 Compliance Filing (http://www.ripuc.ri.gov/eventsactions/docket/4770-NGrid-Rate%20Year%203-Compliance%20(6-1-2020).pdf), for each of the listed investments that were funded in Rate Years 1 and 2, please provide a summary of the investment plan that was developed for each of the rate years, the status of the investments, the funds expended to date, and whether the Company is on track to complete the funded investments by the end of Rate Year 3.

Response:

Advanced Metering Functionality ("AMF")

Please see Attachment PUC 2-1-1. The Company contracted with The Willdan Company (formerly, Energy and Environmental Economics (E3)) to assist in updating and refining the AMF Business Case, as agreed to in the Amended Settlement Agreement in Docket 4770, and to assist the Company during the Power Sector Transformation Advisory Group process. Despite delays related to the COVID-19 pandemic, the Company is on track to finalize the Updated AMF Business Case and file it with the Public Utilities Commission (the "Commission") before the end of Rate Year 3 ("RY3").

Energy Storage

Please see Attachment PUC 2-1-2 for a summary of the investment plan for the energy storage front-of-the-meter ("FTM") and behind-the-meter ("BTM") projects. The Company has entered into a contract for the BTM project. The BTM project is targeted to have construction completed by the end of 2020, although that schedule could be extended. The request for proposals to select the developer for the FTM project is projected to be issued by the end of August 2020, after which the Company will select the developer and enter into a contract for the project. The FTM project is targeted to have construction completed by the end of RY3.

PUC 2-1, page 2

Electric Transportation ("ET")

Please see Attachment PUC 2-1-3. The projected ET variance is caused, in part, by lower than expected electrical infrastructure costs for Level 2 stations and funding from Electrify Rhode Island, which reduced the Company's rebates. In addition, some segments have not participated in the Charging Infrastructure Program because of the financial impacts of the COVID-19 pandemic (*e.g.*, ride-share companies) and funding barriers associated with the incremental costs of electric vehicles (*e.g.*, electric school buses). The Company expects some investments to be committed in RY3 and not paid to program participants until after RY3.

Grid Modernization

Please see Attachment PUC 2-1-4. The Company completed the ADMS/DSCADA requirements and definition phase in RY2 in coordination with its New York and Massachusetts affiliates. The Company initiated the GIS Data Enhancement Project (IS) in RY2 and anticipates completion in RY3. The GIS (Business Resources) investment has mobilized in RY2 to begin the data collection activities and anticipates completion in RY3. The System Data Portal maintenance and support work is ongoing through all three rate years.

Grid Modernization Information Technology ("IT")

Please see Attachment PUC 2-1-5. The Company has initiated work for RTU Separation in RY2 targeting five locations and is planning another ten locations in RY3. The remaining IT projects (Enterprise Service Bus, Data Lake, PI Historian, Advanced Analytics, Telecommunications, and Cybersecurity) represent Service Company investments. The Enterprise Service Bus, Data Lake, Telecommunications, and Cybersecurity investments are in various stages of start-up, requirements and design in RY2. The PI Historian and Advanced Analytics investments are not anticipated to start-up until RY3.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment PUC 2-1-1 Page 1 of 1

Power Sector Transformation Initiatives Rate Year 3 Compliance Filing Schedule 6 Investment Plan Comparison

			Ending 8/31/19			Ending 8/31/						Ending 8/31/21		
		RY1				RY2			Cumulative		RY3		Cumulative	
Pro	gram	Approved	Actual	RY 1 Variance	Approved	Actual to Date	Projected	Actual + Projected	RY2 Variance	Variance through RY2	Approved	Projected	RY3 Variance	Variance through RY3
110	Bruin	(a)	(b)	(c)=(a)-(b)	(d)	(e)	(f)	(g)=(e)+(f)	(h)=(d)-(g)	$\frac{(i)=(c)+(h)}{(i)=(c)+(h)}$	(j)	(k)	(l)=(j)-(k)	(m)=(l)+(i)
AMI Buis	ness Case	\$666,667	\$1,148,920	(\$482,253)	\$666,667	\$245,025	\$10,000	\$255,025	\$411,642	(\$70,611)	\$666,667	\$75,419	\$591,248	\$520,637
	OPEX	\$666,667	\$1,148,920	(\$482,253)	\$666,667	\$245,025	\$10,000	\$255,025	\$411,642	(\$70,611)	\$666,667	\$75,419	\$591,248	\$520,637
	CAPEX	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Power Sector Transformation Initiatives Rate Year 3 Compliance Filing Schedule 6 Investment Plan Comparison

	RY1 - End 08/31/2019			RY	2 - End 08/31/2	020		Cumulative	RY3 - End 08/31/2021			Cumulative		
	D			RY 1		Actual to		Actual +	RY2	Variance			RY3	Variance
	Program	Approved	Actual	Variance	Approved	Date	Projected	Projected	Variance	through RY2	Approved	Projected	Variance	through RY3
Storage		(a)	(b)	(c)=(a)-(b)	(d)	(e)	(f)	(g)=(e)+(f)	(h)=(d)-(g)	(i)=(c)+(h)	(j)	(k)	(l)=(j)-(k)	(m)=(l)+(i)
	CAPEX	\$894,375	\$0	\$894,375	\$1,341,563	\$7,958	\$1,200	\$9,158	\$1,332,405	\$2,226,780	\$0	\$2,226,780	(\$2,226,780)	\$0
	OPEX	\$5,000	\$29,226	(\$24,226)	\$24,000	\$0	\$0	\$0	\$24,000	(\$226)	\$41,250	\$41,024	\$226	\$0

Power Sector Transformation Initiatives Rate Year 3 Compliance Filing Schedule 6 Investment Plan Comparison

	Ending 8/31/19 Ending 8/31/20					Ending 8/31/21							
	RY1				RY2		-	Cumulative		RY3	RY3 Cu		
									Variance				Variance
Program	Approved	Actual	RY 1 Variance	Approved	Actual to Date	Projected	Actual + Projected	RY2 Variance	through RY2	Approved	Projected	RY3 Variance	through RY3
	(a)	(b)	(c)=(a)-(b)	(d)	(e)	(f)	(g)=(e)+(f)	(h)=(d)-(g)	(i)=(c)+(h)	(j)	(k)	(l)=(j)-(k)	(m)=(l)+(i)
ELECTRIC TRANS	PORTATIC	DN											
OPEX	\$634,197	\$ 377,195	\$ 257,002	\$949,951	\$ 973,128	\$ 159,929	\$ 1,133,057	\$ (183,106)	\$ 73,896	\$1,635,170	\$ 995,695	\$ 639,475	\$ 713,370
CAPEX	\$824,748	\$ 75,204	\$ 749,544	\$1,419,195	\$ 2,169,999	\$-	\$ 2,169,999	\$ (750,804)	\$ (1,260)	\$3,262,316	\$ 2,082,687	\$ 1,179,629	\$ 1,178,369

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment PUC 2-1-4 Page 1 of 1

Power Sector Transformation Initiatives Rate Year 3 Compliance Filing Schedule 6 Investment Plan Comparison

			Ending 8/31/19			Ending 8/31/20							Ending 8/31/21		
	RY1		RY2				Cumulative		RY3		Cumulative				
Prog	zram	Status	Approved	Actual	RY 1 Variance	Approved	Actual to Date	Projected	Actual + Projected	RY2 Variance	Variance through RY2	Approved	Projected	RY3 Variance	Variance through RY3
			(a)	(b)	(c)=(a)-(b)	(d)	(e)	(f)	(g)=(e)+(f)	(h)=(d)-(g)	(i)=(c)+(h)	(j)	(k)	(l)=(j)-(k)	(m)=(l)+(i)
System Da	ta Portal														
	OPEX		\$466,667	\$0	\$466,667	\$700,000	\$0	\$0	\$0	\$700,000	\$1,166,667	\$700,000	\$0	\$700,000	\$1,866,667
	CAPEX				\$0				\$0	\$0	\$0			\$0	\$0
GIS Enhan	cement (IS))													
	OPEX		\$142,333	\$33,789	\$108,544	\$142,333	\$30,976	\$1,000	\$31,976	\$110,357	\$218,902	\$142,333	\$209,985	(\$67,652)	\$151,250
	CAPEX				\$0				\$0	\$0	\$0			\$0	\$0
GIS Enhan	cement (BR	R)													
	OPEX		\$0	\$43,182	(\$43,182)	\$1,028,000	\$514,063	\$20,000	\$534,063	\$493,937	\$450,755	\$1,028,000	\$538,400	\$489,600	\$940,355
	CAPEX				\$0				\$0	\$0	\$0			\$0	\$0
DSCADA/	ADMS														
	OPEX		\$0	\$62,171	(\$62,171)	\$436,000	\$397,134	\$25,914	\$423,048	\$12,952	(\$49,219)	\$0	\$972,035	(\$972,035)	(\$1,021,254)
	CAPEX				\$0				\$0	\$0	\$0			\$0	\$0

No capital investment allowed for these categories

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment PUC 2-1-5 Page 1 of 1

Power Sector Transformation Initiatives Rate Year 3 Compliance Filing Schedule 6 Investment Plan Comparison

		Ending 8/31/19					Ending 8/31/20					Ending 8/31/21		
			RY1				RY2			Cumulative		RY3		Cumulative
Prog	gram	Approved	Actual	RY 1 Variance	Approved	Actual to Date	Projected	Actual + Projected	RY2 Variance	Variance through RY2	Approved	Approved Projected RY3 Variance		Variance through RY3
		(a)	(b)	(c)=(a)-(b)	(d)	(e)	(f)	(g)=(e)+(f)	(h)=(d)-(g)	(i)=(c)+(h)	(j)	(k)	(l)=(j)-(k)	(m)=(l)+(i)
RTU Separ	ration													
	OPEX	\$0	\$0	\$0	\$60,000	\$39,371	\$2,500	\$41,871	\$18,129	\$18,129	\$60,000	\$60,000	\$0	\$18,129
	CAPEX	\$570,000	\$0	\$570,000	\$950,000	\$0	\$0	\$0	\$950,000	\$1,520,000	\$190,000	\$150,000	\$40,000	\$1,560,000
Enterprise	Services Bus	3												
	OPEX	\$0	\$0	\$0	\$402,346	\$151,563	\$1,113	\$152,676	\$249,670	\$249,670	\$504,066	\$28,066	\$476,000	\$725,670
	CAPEX	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,022,163	\$0	\$4,022,163	\$4,022,163
Data Lake														
	OPEX	\$0	\$0	\$0	\$388,092	\$0	\$0	\$0	\$388,092	\$388,092	\$545,532	\$0	\$545,532	\$933,624
	CAPEX	\$226,765	\$0	\$226,765	\$0	\$0	\$0	\$0	\$0	\$226,765	\$0	\$0	\$0	\$226,765
PI Historia														
	OPEX	\$0	\$0	\$0	\$515,000	\$0	\$0	\$0	\$515,000	\$515,000	\$515,000	\$12,170	\$502,830	\$1,017,830
	CAPEX	\$113,000	\$0	\$113,000	\$0	\$0	\$0	\$0	\$0	\$113,000	\$0	\$0	\$0	\$113,000
Advanced	2													
	OPEX	\$0	\$0	\$0	\$299,978	\$95,423	\$17,568	\$112,991	\$186,987	\$186,987	\$338,852	\$72,366	\$266,486	\$453,473
	CAPEX	\$2,045,256	\$0	\$2,045,256	\$952,413	\$0	\$0	\$0	\$952,413	\$2,997,669	\$609,026	\$0	\$609,026	\$3,606,695
Telecomm														
	OPEX	\$0	\$8,025	(\$8,025)	\$425,022	\$313,283	\$29,996	\$343,279	\$81,743	\$73,718	\$636,886	\$255,136	\$381,750	\$455,468
	CAPEX	\$77,748	\$0	\$77,748	\$38,874	\$0	\$0	\$0	\$38,874	\$116,622	\$38,982	\$0	\$38,982	\$155,604
Cybersecu														
	OPEX	\$0	\$696	(\$696)	\$802,100	\$267,576	\$20,000	\$287,576	\$514,524	\$513,828	\$623,280	\$343,784	\$279,496	\$793,324
	CAPEX	\$2,564,388	\$0	\$2,564,388	\$1,247,855	\$0	\$0	\$0	\$1,247,855	\$3,812,244	\$826,073	\$0	\$826,073	\$4,638,316

NOTE: Capital allowances presented are investments (not revenue requirement) for electric only by fiscal year where RY1 = FY 3/31/20 Grid Mod investments benefitting multiple jurisdictions are Service Company investments and will impact future revenue requirements as rent expense.

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

August 18, 2020 Date

National Grid Docket No. 4770 (Rate Application) & Docket No. 4780 (PST)

Combined Service list updated 7/20/2020

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