

March 1, 2021

VIA ELECTRONIC MAIL

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

RE: Docket 4770 – Performance Incentive Mechanism Annual Report

Dear Ms. Massaro:

On behalf of National Grid,¹ I enclose for filing with the Public Utilities Commission (PUC) an electronic version of the Company's Performance Incentive Mechanism Annual Report in compliance with Article II, Section C.19.e of the Amended Settlement Agreement approved by the PUC on August 24, 2018 in the above-referenced docket.

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

Very truly yours,



Jennifer Brooks Hutchinson

Enclosures

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

¹ Per Commission counsel's update on October 2, 2020, concerning the COVID-19 emergency period, the Company is submitting an electronic version of this filing followed by an original and five hard copies filed with the Clerk within 24 hours of the electronic filing.

The Narragansett Electric Company
d/b/a National Grid

Performance Incentive Mechanism

2020 Annual Report
January 2020 through December 2020

March 1, 2021

Docket No. 4770

Submitted to:

Rhode Island Public Utilities Commission

Submitted by:

nationalgrid

I. Introduction

Pursuant to Article II, Section C.19 of the Amended Settlement Agreement dated August 16, 2018, in Docket No. 4770, The Narragansett Electric Company d/b/a National Grid (National Grid or the Company) submits to the Rhode Island Public Utilities Commission (PUC) this annual report for the period January 2020 through December 2020 on the Company's Performance-Based Incentive Mechanism (PIM) and Scorecard Metrics.

II. Performance-Based Incentive Mechanism

System Efficiency: Annual Megawatt (MW) Capacity Savings

The 2020 maximum capacity savings goal for the System Efficiency PIM was 25 MW. The Company exceeded the maximum goal, delivering an average of 32.28 MW of capacity savings across all events called during summer 2020. The Performance-based Incentive Mechanism outcome results in a positive revenue adjustment of \$622,370 that will be recovered from customers through the Performance Incentive Factor, proposed to be effective July 1, 2021.¹

Resource Type	Accounts Enrolled	Avg. Capacity Curtailment (MW)
Residential Thermostat Demand Response	2,867	3.88
Residential Battery	111	0.23
Commercial & Industrial Targeted Dispatch	152	24.22
Commercial & Industrial Daily Dispatch	13	3.95
Total	3,143	32.28

III. Scorecard Metrics

Distributed Energy Resources – Carbon Dioxide: Consumer Electric Vehicles

The Company reports 2,770 consumer electric vehicles (EVs) in operation as of December 31, 2020.² Battery electric vehicles (BEVs) comprised 48% of all the consumer EVs in operation at the end of 2020, and the remaining 52% were plug-in hybrid electric vehicles (PHEVs).

¹ The Company will file the Performance Incentive Factor calculations with the Commission contemporaneously with this filing.

² According to vehicle registration data from IHSMarkit/R.L. Polk.

Consumer EV Type	2020 Registered Consumer EV Forecast	Registered Consumer EVs as of December 31, 2020
BEV	1,654	1,329
PHEV	2,209	1,441
Total	3,863	2,770

Distributed Energy Resources - Light Duty Government and Commercial Fleet Electrification

The Company reports 184 light duty government and commercial fleet EVs in operation in its service territory as of December 31, 2020.³

Fleet Type	2020 Registered Light Duty Fleet EV Forecast	Registered Fleet EVs as of December 31, 2020
Government	-	51
Commercial	-	133
Total	205	184

PST Enablement - Activated Apartment Building and Disadvantaged Community Electric Vehicle Supply Equipment Sites

The Company activated 11 Electric Vehicle Supply Equipment (EVSE) sites at apartment buildings and in disadvantaged communities in the period January through December 2020. These 11 sites provide a total of 42 charging ports.

EVSE Site Locations	Activated Sites	Activated Ports
Apartment Buildings	8	32
Disadvantaged Communities	3	10
Total	11	42

³ According to vehicle registration data from IHSMarkit/R.L. Polk.

Distributed Generation Interconnections

Interconnection Category	No. of Applications	Average No. of Business Days from Executed Interconnection Service Agreement (ISA) to Distribution System Modifications Complete
Simple	N/A	
Expedited	4	152
Standard	9	284

Distributed Generation-Friendly Substation Transformers

The Company completed four (4) incremental 3V₀ installations at its substations in the period January to December 2020.

Utilization of EVSE in Low-income Areas

Calendar Year Quarter	No. of Stations in Operation in Low-Income Areas	Avg. Utilization (Charging Time/Total Time)
Q1 2020	8	0.76%
Q2 2020	8	0.21%
Q3 2020	11	<1%
Q4 2020	11	<1%

Reduction of Uncollectible Debt

Month Ending	Gas Customers Enrolled in AMP	Electric Customers Enrolled in AMP	Total Customers Enrolled in AMP
December 2020	388	1,037	1,425
November 2020	422	1,091	1,513
October 2020	464	1,149	1,613
September 2020	558	1,332	1,890
August 2020	617	1,513	2,130
July 2020	748	1,729	2,477
June 2020	757	1,674	2,431
May 2020	842	1,734	2,576
April 2020	928	1,844	2,772
March 2020	959	1,852	2,811
February 2020	999	1,867	2,866
January 2020	1,078	2,011	3,089

Increased Stability of Service through Increased Enrollment in the Low Income Discount

The number of residential customer account enrollments in the low-income discount (LID) is represented by the number of accounts receiving delivery service on Rate A-60.

Month Ending	Gas Customers Enrolled in LID	Electric Customers Enrolled in LID	Total Customers Enrolled in LID
December 2020	19,368	29,503	48,871
November 2020	20,126	31,329	51,455
October 2020	20,586	32,057	52,643
September 2020	21,265	32,227	53,492
August 2020	21,289	34,682	55,971
July 2020	21,542	32,861	54,403
June 2020	21,078	34,169	55,247
May 2020	21,071	34,487	55,558
April 2020	20,789	33,303	54,092
March 2020	20,286	32,573	52,859
February 2020	18,648	31,943	50,591
January 2020	17,845	31,559	49,404

Nonregulated Power Producer Residential Customer Demand Response Participation

As of December 31, 2020, the Company had enrolled 229 residential customers who purchase electricity from Nonregulated Power Producers (NPPs) enrolled in the residential DR program, ConnectedSolutions.

Residential Customers Purchasing Supply from NPPs	Residential Customers Enrolled in DR Program	NPP Residential Customer DR Participants
41,967	2,867	229

Distributed Energy Resources - Installed Energy Storage Capacity

The Company interconnected 0.59 MW (total AC name plate rating) of energy storage capacity from January through December 2020. This capacity represents 1.2 MW-hours of total storage capacity. Note that the Company has updated (increased) values for January 2020 and May 2020 since filing the 2020 Mid-year Report. The Company recently validated storage asset records entered by developers in the nCAP portal, and as such any errors have been corrected.

Installed Energy Storage Capacity			
Time Period	Number of Applications	Total AC Name Plate Rating (MW)	Total Storage Capacity (MWh)
January 2020	6	0.0530	0.1283
February 2020	4	0.0407	0.0939
March 2020	4	0.0440	0.1006
April 2020	1	0.0100	0.0270
May 2020	7	0.0496	0.1141
June 2020	4	0.0326	0.0638
July 2020	5	0.035	0.0945
August 2020	3	0.03	0.081
September 2020	6	0.045	0.1215
October 2020	3	0.0222	0.0135
November 2020	11	0.079	0.162
December 2020	15	0.14068	0.27666
CY Total	69	0.59488	1.20116

Power Sector Transformation Enablement – Distributed Generation Interconnection – Time to ISA

The Company outperformed the tariff timelines for providing an executable ISA in the period January through December 2020.

Interconnection Category	Tariff Allowed Days for ISA ⁴	Avg. Actual Days for ISA January - December 2020
Simple	20	1
Expedited	45	20
Standard	105	73

⁴ See RIPUC No. 2180, Standards for Connecting Distributed Generation, Section 3.5, Table 1.

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

March 1, 2021

Date

**National Grid Docket No. 4770 (Rate Application) & Docket No. 4780 (PST)
Combined Service list updated 12/2/2020**

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