

March 4, 2022

VIA ELECTRONIC MAIL

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

**RE: Docket 5234 – 2022 Annual Retail Rate Filing
Responses to Division Data Requests – Set 1**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a National Grid (“National Grid” or the “Company”), please find enclosed the Company’s responses to the Division of Public Utilities and Carriers’ First Set Data Requests in the above-referenced docket.¹

Thank you for your attention to this filing. If you have any questions, please contact me at 401-784-4263.

Sincerely,



Andrew S. Marcaccio

Enclosures

cc: Docket 5234 Service List
John Bell, Division
Al Mancini, Division
Tiffany Parenteau, Esq.
Greg Schultz, Esq.

¹ Per a communication from Commission counsel on October 4, 2021, the Company is submitting an electronic version of this filing followed by six (6) hard copies filed with the Clerk within 24 hours of the electronic filing.

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 4, 2022
Date

National Grid – 2022 Annual Retail Rate Filing - Docket No. 5234
Service List Updated 2/23/2022

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The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 5234
In Re: 2022 Annual Retail Rate Filing
Responses to the Division's First Set of Data Requests
Issued on February 25, 2022

Division 1-1

Request:

Please refer to Schedule NECO-16, Column (a), Total Renewable Generation Credits. Please provide a breakdown of Renewable Generation credits for 2021 by Rate Class.

Response:

Please see the table below for the requested information.

2021 Renewable Generation Credits by Rate Class					
	A-16	A-60	C-06	G-02	Total
Jan-21	(\$4,193)	\$0	(\$2,051,110)	(\$29,518)	(\$2,084,821)
Feb-21	(\$5,294)	\$0	(\$2,442,704)	\$27,646	(\$2,420,352)
Mar-21	(\$61,640)	(\$1,046)	(\$3,054,365)	(\$15,571)	(\$3,132,621)
Apr-21	(\$188,908)	(\$3,448)	(\$4,646,967)	(\$49,090)	(\$4,888,413)
May-21	(\$213,124)	(\$4,072)	(\$4,802,685)	(\$50,864)	(\$5,070,745)
Jun-21	(\$216,721)	(\$4,549)	(\$4,752,518)	(\$66,031)	(\$5,039,819)
Jul-21	(\$87,149)	(\$1,522)	(\$4,434,322)	(\$55,033)	(\$4,578,026)
Aug-21	(\$57,874)	(\$1,482)	(\$4,549,175)	(\$47,026)	(\$4,655,557)
Sep-21	(\$74,481)	(\$1,289)	(\$4,128,064)	(\$49,162)	(\$4,252,996)
Oct-21	(\$79,397)	(\$1,446)	(\$4,013,732)	\$236,047	(\$3,858,528)
Nov-21	(\$60,007)	(\$1,291)	(\$4,212,854)	(\$2,850)	(\$4,277,001)
Dec-21	(\$26,729)	(\$302)	(\$3,492,666)	(\$710)	(\$3,520,407)
2021 Total	(\$1,075,516)	(\$20,447)	(\$46,581,162)	(\$102,161)	(\$47,779,286)

Prepared by or under the supervision of:
Daniel Gallagher, Stephanie Briggs, and Jeffrey Oliveira

Division 1-2

Request:

Please refer to the testimony of Gallagher, Briggs, Oliveira, Ahirrao, page 13 of 50, lines 3-5. Where on Page 1 of Schedule NECO-2 are the over- under-estimated capacity costs included?

Response:

The testimony of Gallagher, Briggs, Oliveira, Ahirrao, Page 13 of 50, Lines 3-5 is referring to Schedule NECO-2, Page 7. This schedule is an estimate of the over/(under) recovery associated with capacity for each customer group.

Actual base Last Resort Service revenue, which contain a component associated with estimated capacity charges, is reflected on Schedule NECO-2, Page 5, Column (a) for each customer group. Actual capacity charges are reflected on Schedule NECO-2, Page 6, Column (b) for each customer group. These actual revenue and capacity charges are also reflected on Pages 2 through 4 in Columns (b) and (c), respectively, and contribute to the monthly over/(under) recovery in Column (d) for each customer group's reconciliation for the applicable period. These customer group-specific reconciliations feed into the base reconciliation for all customer groups included on Page 1 of Schedule NECO-2.

Division 1-3

Request:

Please refer to the Direct Testimony of Gallagher, Briggs, Oliveira and Ahirrao page 26 of 50, lines 18-20. Please provide a detailed breakdown of the projects included in the \$232.6M 2022 transmission forecast that result in a \$10.5M increase from 2021.

Response:

Please see Attachment DIV 1-3(a) which provides a breakdown by New England Transmission Owner ("NETO") of the estimated CY2022 RNS plant additions as presented on Page 15 of the Rates Working Group Presentation to the NEPOOL Transmission Committee Summer RC/TC meeting on July 14, 2021. These were used in setting RNS rates effective January 1, 2022.

Please see Attachment DIV 1-3(b) which provides a detailed breakdown of the estimated New England Power CY2022 LNS plant additions, as filed in Attachment 9(i) of the Annual PTO AC Informational Filing dated July 30, 2021. This was used in setting LNS rates effective January 1, 2022.

Please see Attachment DIV 1-3(c) which provides a detailed breakdown of the estimated NETO CY2023 RNS plant additions. These were used in estimating the RNS rates effective January 1, 2023.

Please see Attachment DIV 1-3(d) which provides a detailed breakdown of the estimated New England Power CY2023 LNS plant additions. These were used in estimating the LNS rates effective January 1, 2023.

RNS Rates Effective June 1, 2021 and January 1, 2022

PTO AC – Rates Working Group Presentation

NEPOOL Transmission Committee

July 14, 2021

Presentation Overview

Settled Formula Rate Overview

- Background
- Annual Protocols Process

General Rate Overview – June 1, 2021 RNS Rate

- Summary of 2021 RNS Rate Change
- Annual Transmission Revenue Requirements (ATRR)
- Regional Forecast Summary (2021)
- Annual True-up Summary
- RNS Load and Other ATRR Impacts

General Rate Overview – January 1, 2022 RNS Rate

- Transition Forecast Template Details
- 2022 RNS Rate Summary
- Regional Forecast Summary (2022)
- Supplemental 2022 RNS Rate – Order No. 864 Compliance

Appendix

- Historical PTF Investment and RNS Rates

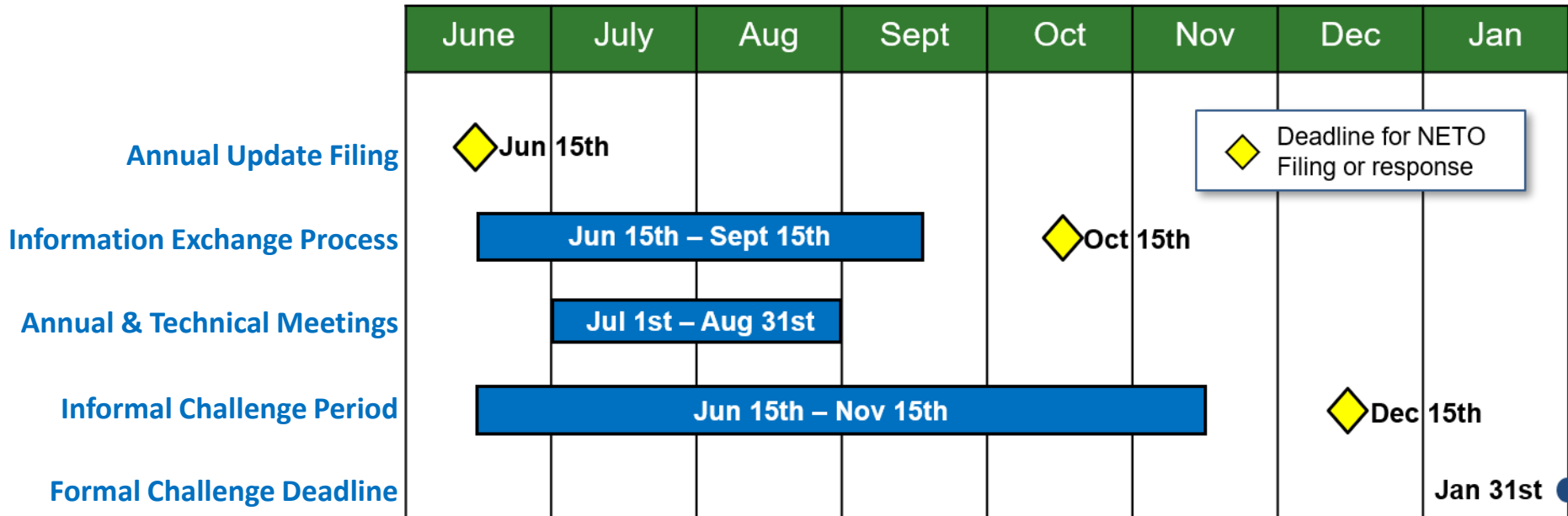
Settled Formula Rate Overview

Settled Formula Rate Background

- ❑ **Settled Formula Rate (“SFR”) – approved Docket No. ER20-2054 on December 28, 2020**
 - Annual Protocols effective June 15, 2021 with Annual Update Filing posted on ISO-NE website
 - SFR effective January 1, 2022 subject to Transition Period
 - Transition Period for setting January 1, 2022 and January 1, 2023 rates using Transition Forecast Templates prior to full implementation of SFR
 - New SFR will be utilized for calculating actual (true-up) 2022 revenue requirements and setting rates effective January 1, 2024
 - Annual Meeting Presentation to take place at NEPOOL summer meeting whereby the PTOs explain the RNS rate change generally and interested parties can seek additional information and clarifications

- ❑ **RNS Rates included within this Annual Meeting Presentation**
 - RNS Rate Effective June 1, 2021 to December 31, 2021 (current tariff)
 - Utilizes current Attachment F which covers the formula rate details
 - 2020 RNS true-up will be billed over an accelerated 7 month period
 - RNS Rate Effective January 1, 2022 to December 31, 2022 (settlement tariff)
 - Utilize the Transition Forecast Template based on 2020 actual data (from current Attachment F) plus 2021 and 2022 incremental Forecasted PTF revenue requirements
 - Regional, Local and Schedule 12C costs services to be billed over a calendar year

Annual Protocols Process



Key Aspects:

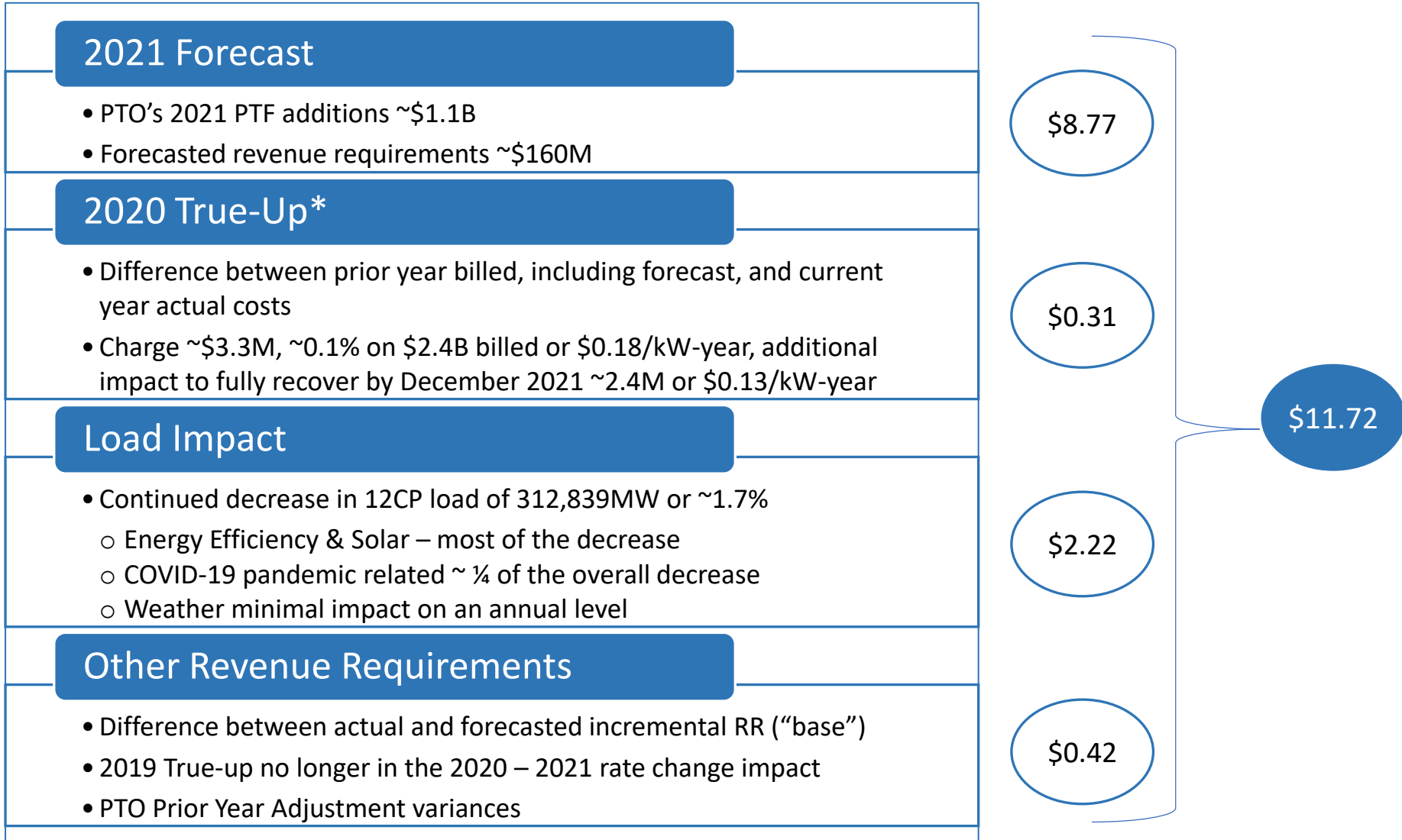
- Annual Update Filing - posted on ISO-NE website (detailed support for rate calculations)
- Data Request Process*- NETOs have 15 to 20 days to respond to interrogatories
- Informal Challenge - written challenge settled outside of FERC
- Formal Challenge - challenge filed at FERC
- Moratorium - no changes to the new rate structure until 2025, with limited exceptions

*Annual Update Filing provides PTO specific email addresses where interested parties can email their information requests

General Rate Overview: June 1, 2021 RNS Rate

Summary of 2021 RNS Rate Change

RNS Rate (\$/kW-year) at June 1, 2020 = \$129.26



* Fully recovered by December 2021

RNS Rate (\$/kW-year) at June 1, 2021 = \$140.98

Summary Annual Transmission Revenue Requirements ("ATRR")

Columns (B), (C) and (D) in Millions of \$

(A)	(B)	(C)	(D) = (C) - (B)	(E)=(C)/(C Ln 15) - (B)/(B Ln 15)
PTO	ATRR 6/1/2020	ATRR 6/1/2021	ATRR Change Incr./((Decr.)	RNS Rate Change Incr./((Decr.) (\$/kW-year)
1 Central Maine Power	\$ 205.8	\$ 233.3	\$ 27.5	\$ 1.70
2 CTMEEC	9.3	9.7	0.4	0.03
3 Eversource (CL&P)	657.3	722.5	65.2	4.18
4 Eversource (PSNH)	204.6	240.0	35.4	2.13
5 Eversource (NSTAR West)	165.2	182.6	17.4	1.11
6 Eversource (NSTAR East)	275.5	311.1	35.6	2.21
7 Maine Electric Power Company	26.3	20.6	(5.7)	(0.29)
8 National Grid	433.5	436.0	2.5	0.54
9 NHT	18.7	15.4	(3.3)	(0.16)
10 United Illuminating	165.9	167.3	1.4	0.23
11 VTransco	179.5	175.7	(3.8)	(0.04)
12 Versant Power	39.5	38.5	(1.0)	(0.02)
13 All Other PTOs	17.6	19.2	1.6	0.10
14 Total	\$ 2,398.7	\$ 2,572.0	\$ 173.3	\$ 11.72
15 2020 Average 12CP RNS Load (kW)	18,556,527	18,243,688	(312,839)	

Note: The RNS rate above reflects the impact of transmission projects that enabled rate reductions associated with 1) Congestion Charges, 2) Daily Reliability Payments and 3) elimination of Reliability Must Run Agreements

2021 RNS Rate Regional Forecast Summary

Columns (B) and (D) in Millions of \$

	(A)	(B)	(C)	(D) = (B) x (C)
	PTO	2021 PTF Projected Adds (Incl CWIP)	Annual Carrying Charge Factor	Forecasted PTF Revenue Requirements
1	Central Maine Power	\$ 62.8	13.69%	\$ 8.6
2	CTMEEC	-	-	-
3	Eversource (CL&P)	401.5	14.22%	57.1
4	Eversource (PSNH)	156.8	15.37%	24.1
5	Eversource (NSTAR West)	76.9	14.43%	11.1
6	Eversource (NSTAR East)	241.9	12.57%	30.4
7	Maine Electric Power Company	2.7	14.81%	0.4
8	National Grid	96.4	13.69%	13.2
9	NHT	0.4	11.35%	0.1
10	United Illuminating	41.0	17.32%	7.1
11	VTransco	46.0	15.65%	7.2
12	Versant Power	4.7	8.51%	0.4
13	All Other PTOs	1.3	23.08%	0.3
14	Total	\$ 1,132.4		\$ 160.0
15	2020 Average 12CP RNS Load (kW)			18,243,688
16	6/1/21 RNS Rate Impact (\$/kW-year)			\$ 8.77

June 1, 2021 RNS Rates Annual True-up Summary

Columns (B) – (F) in Millions of \$

(A)	(B)	(C)	(D)	(E)=(F)-(D)	(F)=(D)*12/7
PTO	PTF RR 2019 Actual + 2020 Forecast (As Billed)	PTF RR 2020 Actual	Difference (Over)/Under Collection	Acceleration Impact	Difference (Over)/Under Collection (Accelerated)
1 Central Maine Power	\$ 223.2	\$ 226.8	\$ 3.6	\$ 2.6	\$ 6.2
2 CTMEEC	9.5	9.6	0.1	0.1	0.2
3 Eversource (CL&P)	638.4	648.1	9.7	6.9	16.6
4 Eversource (PSNH)	212.2	213.5	1.3	0.9	2.2
5 Eversource (NSTAR West)	164.4	167.0	2.6	1.8	4.4
6 Eversource (NSTAR East)	289.8	286.5	(3.3)	(2.4)	(5.7)
7 Maine Electric Power Company	22.7	21.8	(0.9)	(0.6)	(1.5)
8 National Grid	427.6	425.8	(1.8)	(1.3)	(3.1)
9 NHT	19.9	18.3	(1.6)	(1.1)	(2.7)
10 United Illuminating	171.0	167.1	(3.9)	(2.8)	(6.7)
11 VTransco	176.3	173.5	(2.8)	(2.0)	(4.8)
12 Versant Power	39.4	39.0	(0.4)	(0.3)	(0.7)
13 All Other PTOs	17.5	18.1	0.6	0.5	1.1
14 Total	\$ 2,411.9	\$ 2,415.1	\$ 3.2	\$ 2.3	\$ 5.5
15 Interest on Difference			0.1	0.1	0.2
16 Total True-up			\$ 3.3	\$ 2.4	\$ 5.7
17 2020 Average 12CP RNS Load (kW)					18,243,688
18 6/1/21 RNS Rate Impact (\$/kW-year)			\$ 0.18	\$ 0.13	\$ 0.31

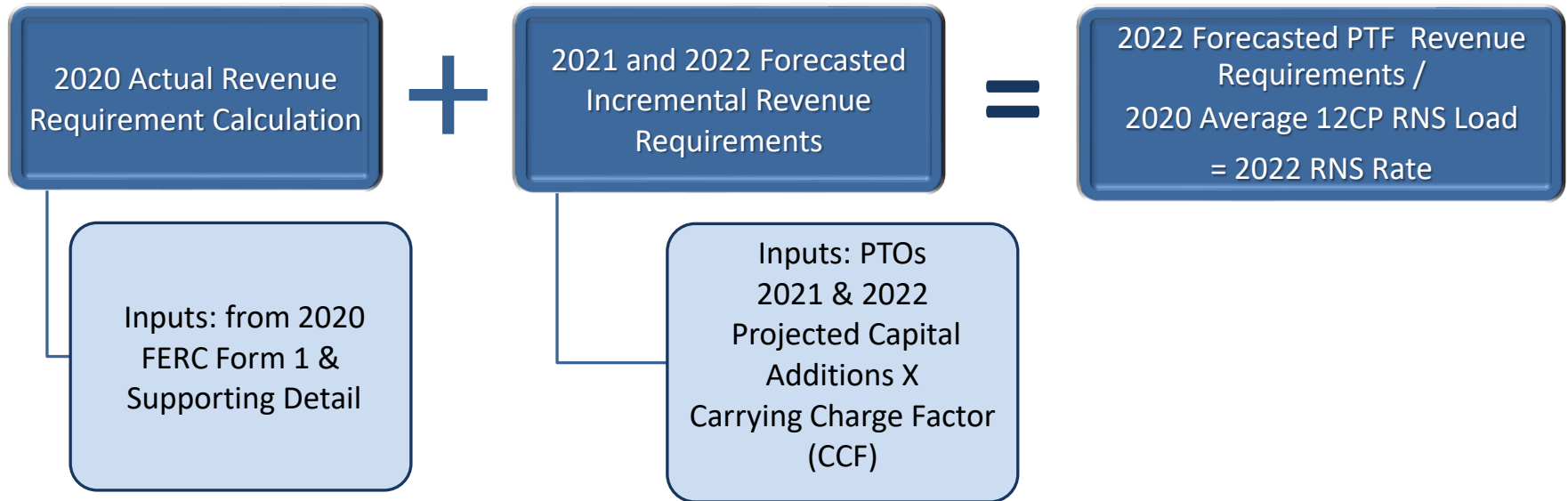
<u>RNS Load Impact</u>		PTF Rev Req (\$ in Millions)	6/1/21 RNS Rate (\$/kW-year)
1	RNS ATRR @ 6/1/20	\$ 2,398.7	
2	2019 12CP RNS Load (kW)	18,556,527	\$ 129.26
3	2020 12CP RNS Load (kW)	18,243,688	131.48
4	6/1/21 RNS Rate Impact (\$kW-year) (Line 3 - Line 2)		\$ 2.22

<u>Other ATRR Variances</u>		PTF Rev Req (\$ in Millions)	6/1/21 RNS Rate (\$/kW-year)
1	2019 True Up - No longer in June 1 2021 RNS Rate	\$ (4.4)	\$ 0.24
2	Actual Incremental Rev Requirements from 2019 to 2020	\$ 151.2	
3	2020 Forecasted RR from Forecasted Cap Adds	148.3	
4	“Base” RR Variance	\$ 2.9	0.16
5	Prior Year Adjustments in June 1 2021 RNS Rate	\$ (8.8)	
6	Prior Year Adjustments in June 1 2020 RNS Rate	(9.1)	
7	Prior Year Adjustments Variance	\$ 0.3	0.02
8	6/1/21 RNS Rate Impact (\$kW-year) (Lines 1 + 4 + 7)		\$ 0.42

General Rate Overview: January 1, 2022 RNS Rate

Transition Forecast Template Details

The January 1, 2022 and January 1, 2023 rates to be set utilizing the Transition Forecast Template within Attachment II of the Settlement Agreement



Actual Revenue Requirement:

- 2020 actual revenue requirement calculated under current rates, excluding 2020 true-up and other PTO adjustments

Forecasted Incremental Revenue Requirement:

- 2021 Plant In-Service Forecast x Annual CCF
- 2022 Five Quarter Average Plant In-Service Forecast x Annual CCF

January 1, 2022 RNS Rate Summary

		(A)	(B)	(C)	(D) = (A) + (B) + (C)
	Description	<u>2020</u> Actual Effective RNS Rate (Excluding True-up & Adjusted for Load)	<u>2021</u> Incremental PTF Revenue Requirement (Slide 9)	<u>2022</u> Incremental PTF Revenue Requirements (Slide 15)	RNS Rate Effective January 1, 2022*
1	Total NE Rev Req (\$ in Millions)	\$2,406.3	\$160.0	\$55.8	\$2,622.1
2	2020 Average 12CP RNS Load (kW)	18,243,688	18,243,688	18,243,688	18,243,688
3	Total NE RNS \$/kW-year	\$131.90	\$8.77	\$3.06	\$143.73

* PTO AC is also presenting a supplemental January 1, 2022 RNS – Order No. 864 rate that reflects one year of estimated excess ADIT amortization (Slide 16).

2022 Regional Forecast Summary

Columns (B), (C) and (D) in Millions of \$

(A)	(B)	(C)	(D)	(E) = (C) x (D)
PTO	2022 Projected Year End PTF Adds	2022 Projected Five Quarter Average PTF Adds	2022 Annual Carrying Charge Factor	2022 Forecasted Incremental PTF Revenue Requirements
1 Central Maine Power	\$ 9.7	\$ 1.9	11.69%	\$ 0.2
2 CTMEEC	-	-	0.00%	-
3 Eversource (CL&P)	255.2	93.7	13.93%	13.1
4 Eversource (PSNH)	137.8	57.9	15.21%	8.8
5 Eversource (NSTAR West)	25.5	10.7	12.93%	1.4
6 Eversource (NSTAR East)	335.6	100.3	12.61%	12.6
7 Maine Electric Power Company	-	-	14.78%	-
8 National Grid	126.4	55.8	14.10%	7.9
9 NHT	34.1	20.1	17.90%	3.6
10 United Illuminating	68.4	33.8	17.23%	5.8
11 VTransco	36.5	13.9	14.43%	2.0
12 Versant Power	5.5	1.1	6.95%	0.1
13 All Other PTOs	4.3	2.4	13.28%	0.3
14 Total	\$ 1,039.0	\$ 391.6		\$ 55.8
15 2020 Average 12CP RNS Load (kW)				18,243,688
16 1/1/22 RNS Rate Impact (\$/kW-year)				\$3.06

Supplemental January 1, 2022 RNS Rate

- ❑ FERC Order 864 addressed rate impacts of the 2017 Tax Cuts and Jobs Act
 - Requires the return of Excess ADIT to customers
 - Utilities were required to file compliance with Order 864 before amortizing Excess ADIT and reflecting amortization in rates
- ❑ Joint NETO Supplemental Order 864 compliance filing committed to include Excess ADIT amortization in the January 1, 2022 RNS rate if FERC approves the compliance filing in 2021, expediting the return of these monies to customers*
- ❑ Annual Update filing includes adjusted estimate of 2022 PTF revenue requirements and a supplemental January 1, 2022 RNS rate reflecting Excess ADIT amortization
 - The supplemental rate will be in effect January 1, 2022 if FERC approves the NETOs joint supplemental Order 864 Compliance filings submitted February 12, 2021 in Docket No. ER21-1130 in 2021
- ❑ **2022 RNS rate with one year of estimated Excess ADIT amortization (~\$17.3M) = \$142.78**

* For purposes of the supplemental Order No. 864 compliance filing, the NETOs are Central Maine Power Company; Eversource Energy Service Company as agent for: The Connecticut Light and Power Company, NSTAR Electric Company, and Public Service Company of New Hampshire; Fitchburg Gas and Electric Light Company; Green Mountain Power Corporation; Maine Electric Power Company; New England Power Company, d/b/a National Grid; New Hampshire Transmission, LLC; The United Illuminating Company; Unitil Energy Systems, Inc.; Vermont Transco LLC, acting by and through its Manager, Vermont Electric Power Co., Inc.; and Versant Power (f/k/a Emera Maine).



THANK YOU!

ANY QUESTIONS?

Appendix

HISTORICAL RNS RATES

PTF INVESTMENT HISTORY

PTF Investment (\$ in Millions)

RNS Rates History (\$/kW-year)

	Total	CMP	CTMEEC	EVERSOURCE (CL&P, PSNH, EVERSOURCE NSTAR West) (NSTAR East)		NGRID	NHT	UI	VTransco	Versant Power
12/31/2011	7,037.5	353.9	51.3	2,902.6	1,177.1	1,153.7	54.4	481.5	627.7	235.3
12/31/2012	8,053.8	619.0	51.3	3,324.3	1,237.9	1,239.1	57.4	553.5	659.4	311.9
12/31/2013	9,501.1	948.5	51.3	3,893.5	1,530.6	1,352.6	60.8	611.7	713.9	338.2
12/31/2014	10,412.7	1,278.0	51.3	4,201.8	1,570.5	1,466.6	62.7	634.9	802.5	344.4
12/31/2015	11,762.9	1,657.7	51.3	4,696.7	1,720.6	1,702.5	63.5	677.7	837.3	355.6
12/31/2016	12,294.9	1,673.7	51.3	5,090.8	1,981.1	1,860.4	66.1	756.6	814.9	355.7
12/31/2017	13,187.4	1,685.7	51.3	5,577.0	2,097.7	1,956.6	69.5	788.1	961.5	355.8
12/31/2018	14,321.9	1,791.5	51.3	6,232.5	2,234.1	2,018.6	74.3	884.8	1,034.8	356.0
12/31/2019	15,326.1	1,819.7	51.3	6,767.3	2,404.2	2,202.7	87.5	917.1	1,076.3	360.0
12/31/2020	16,310.9	1,881.8	51.3	7,412.7	2,479.4	2,317.1	104.8	953.9	1,109.9	362.0
	06/01/12	06/01/13	06/01/14	06/01/15	06/01/16	06/01/17	06/01/18	06/01/19	06/01/20	06/01/21
Historical RNS Rates	75.25	85.32	89.80	98.70	104.10	111.96	110.43	111.94	129.26	140.98

New England Power Company
Forecasted Annual Transmission Revenue Requirements (ATTR)
Per Attachment II to the Settlement Agreement - Transition to Settled Formula Rate
Forecasted Plant Additions for CY 2021
Attachment 9(B)(1)

Line No	Project Description	Construction Start	RSP ID (if applicable)	(A)		(B)	(C)		TCA Application Date
				RNS CY 2021	LNS CY 2021	Total CY21			
1	Tx Asset DF Blanket Line Co5410	1/26/2021		604,778	604,778	-	1,209,556		
2	Tx Asset DF Blanket Sub Co5410	1/1/2021		513,948	513,948	-	1,027,897		
3	Adams - Install 115 kV Breakers	10/19/2017	945	11,346	597	-	11,943	5/25/2018	
4	Tx Asset Rplmt Blanket Line Co5410	1/1/2021		83,674	83,674	-	167,348		
5	Tx L&M Repair Prgm Line Co5410	1/1/2021		497,801	497,801	-	995,602		
6	Tx Asset Rplmt Blanket Sub Co5410	1/1/2021		73,353	73,353	-	146,706		
7	303/315/327/3520 Phase 2	7/8/2019		15,417,290	-	-	15,417,290	6/17/2019 & 3/18/2020	
8	BatterRplStrategyCo5410	1/1/2021		121,050	121,050	-	242,100		
9	Tx Storm DF Blanket Line Co5410	1/1/2021		93,444	93,444	-	186,888		
10	Y177 Emission Repair - Colrain	1/4/2021		6,503,789	-	-	6,503,789		
11	Pottersville Swthyl115kV Rebuild	4/16/2018	1635	198,599	-	-	198,599	8/23/2018	
12	Conductor Clearance - NEP Program	1/1/2021		279,542	279,542	-	559,083		
13	TP E. Webster 412 Upgrade T1	2/12/2020		-	3,395,848	-	3,395,848		
14	P142S Wave Trap Installation	6/1/2021		311,398	-	-	311,398		
15	C203 Conerford - Moore ACR	10/15/2021		233	12	-	246		
16	BHC Capital Small Tools Co5410	1/1/2021		22,500	22,500	-	45,000		
17	Land & Land Rights Acq/disposal	1/1/2021		63,503	63,503	-	127,006		
18	Commerford 34.5 kV Rebuild	4/13/2020		-	15,700,829	-	15,700,829		
19	Reynolds Ave Sub - TLine	4/1/2020		-	56,990	-	56,990		
20	BO Relay Upgrd revised NPCC	1/1/2021		426	-	-	426		
21	LT NEP Protection Circuit Migration	10/19/2020		749,999	749,999	-	1,499,998		
22	ST NEP Protection Circuit Migration	1/1/2021		147,611	147,611	-	295,221		
23	NEP Station - Enhancements LG.Term	1/1/2017		6,407,391	-	-	6,407,391		
24	Hendersoville - TP Sub	11/18/2019		-	1,256,390	-	1,256,390		
25	S145 Tower 27 Foundation DF	11/9/2020		1,470,774	-	-	1,470,774		
26	Golden Rock#19-Breaker & 2nd Transf	5/20/2019		-	177,631	-	177,631		
27	G133W 115kV TLine Lp-Golden Rock#19	6/15/2020		-	7,728,878	-	7,728,878		
28	SEMA-RI Brayton Point Upgrades	7/16/2019	1715	479,639	-	-	479,639		
29	Tx CustPublic Resp Bklt Line 5410	1/1/2021		-	18,706	-	18,706		
30	Tx CustPublic Resp Bklt Sub 5410	1/1/2021		-	15,000	-	15,000		
31	B202 Str	8/31/2020		62,047	-	-	62,047		
32	Nitchfield DFRandPMU Installation	10/26/2020		558,623	-	-	558,623		
33	E Bridgewater NPCC Pilot Scheme	2/24/2020		1,057,620	-	-	1,057,620		
34	Dighton NPCC Pilot Scheme	4/5/2021		225,737	-	-	225,737		
35	P-142 OPGW NPCC Pilot Scheme	3/2/2020		1,076,003	-	-	1,076,003		
36	Harrison Blvd NPCC Pilot Scheme	5/7/2020		293,228	-	-	293,228		
37	Auburn St NPCC Pilot Scheme	9/14/2020		2,596,080	-	-	2,596,080		
38	Read St Remote end work	11/18/2021	1718	357,733	-	-	357,733		
39	N-192 East Beverly 51 Substation	4/19/2021		-	676,896	-	676,896		
40	Smart Fault Indicators NEP	11/4/2021		198,604	198,604	-	397,209		
41	Uxbridge 321 NPCC Sub-Monitor	8/7/2023		1,055	1,055	-	2,110		
42	Telecom Small Capital Work - NEP	1/1/2021		29,818	29,818	-	59,636		
43	Berry St. capacitor and breakers	9/7/2021 1714, 1719		2,883,836	-	-	2,883,836		
44	O141S NPCC Pilot Scheme	3/2/2020		4,306,066	-	-	4,306,066		
45	East Swamp 230kV PMU	9/30/2021		270,213	-	-	270,213		
46	Tx RelayOps Tools BlanketSub NEP	1/1/2021		112,478	112,478	-	224,956		
47	C-129N Milby Milfid NPCC Pilot	9/13/2021		8,813,415	-	-	8,813,415		
48	C-129N Milfid Tap NPCC Pilot	10/25/2021		2,061,540	-	-	2,061,540		
49	Hathaway Sub Switch 640 Replace	9/13/2021		-	979,372	-	979,372		
50	Dighton Sub Switch 403 replace	3/29/2021		-	1,244,096	-	1,244,096		
51	A1/B2 Bird Deterrent Replacement	8/8/2019		267,647	-	-	267,647		
52	Power flow control W23 Line	8/24/2020		-	54,332	-	54,332		
53	Sandy Pond 237 AC Sub Monitoring	11/21/2019		591,087	-	-	591,087		
54	Sub Surveillance Sys Security NEP	10/12/2020		489,552	489,552	-	979,104		
55	Site 1 Modification	11/2/2020		4,207,721	-	-	4,207,721		
56	Site 2 Modifications	4/6/2021		3,064,431	-	-	3,064,431		
57	Scarsburg Vermont Project	5/12/2021		1,007,152	111,906	-	1,119,058		
58	NEP Footer Treatments	1/1/2021		1,049,941	1,049,941	-	2,099,882		
59	NEP Wood Pole Treatments	1/1/2021		87,356	87,356	-	174,713		
60	ES194 Polymer Insulator Replacement	4/6/2020		5,830,294	-	-	5,830,294		
61	Switches addition on B-154S line	11/2/2020		1,362,699	-	-	1,362,699		
62	Everett Sub Asset Replacements	9/7/2021		205,124	205,124	-	410,247		
63	Palmer Relay Failure	1/5/2021		9,782	-	-	19,564		
64	Vernon Maintenance Bldg	4/16/2021		-	1,228,860	-	1,228,860		
65	Golden Hills GIS to AIS	8/4/2020		11,761,559	-	-	11,761,559	1/20/2021	
66	DF P168	9/15/2021		317,000	-	-	317,000		
67	Groton St #226 3V0 MA Prog T-Sub	4/20/2021		-	360,914	-	360,914		
68	Cooks Pond #23 3V0 MA Prog T-Sub	5/10/2021		-	566,126	-	566,126		
69	M139 Switch Installations	6/1/2021		786,286	-	-	786,286		
70	Golden Rock Phase II Sub	4/26/2021		-	2,548,313	-	2,548,313		
71	Pinhurst #2 Xfmr Failure	4/8/2020		-	1,242,928	-	1,242,928		
72	Golden Hills Reactor	6/2/2021	1807	3,188,054	-	-	3,188,054	1/20/2021	
73	King St #18 Disc Replacement	1/1/2021		162,708	162,708	-	325,417		
74	660 Feeder ACR	2/2/2021		1,023,204	-	-	1,023,204		
75	Fault Location Modernization (NEP)	4/1/2021		187,593	187,593	-	375,187		
76	Billerica #2 Xfmr Failure	4/26/2021		-	1,361,001	-	1,361,001		
77	Brayton Point SF6 Monitor System	7/7/2021		308,918	-	-	308,918		
78	Field Street Sub Backup Generator	5/5/2020		-	1,632,912	-	1,632,912		
79	Comerford 18 Rebd 3316 Ln Wk	3/29/2019		-	261,714	-	261,714		
80	Comerford 18 Rebd 3318 Ln Wk	3/29/2019		-	196,761	-	196,761		
81	Comerford 18 Rebd 3386 Ln Wk	3/29/2019		-	351,210	-	351,210		
82	Comerford 18 Rebd 3315 Ln Wk	6/25/2019		-	381,400	-	381,400		
83	Grand Army Transmission Lines	1/31/2018	1714	22,644	-	-	22,644	6/7/2019	
84	Separate X-24E-157W DCTS	4/10/2015	1330	(2,613)	-	-	(2,613)		
85	Substation Monitoring Wachuset #47	4/10/2017		18,500	378	-	18,878		
86	Reconductor W-23W Woodside-Nbro	7/31/2015	1327	1,136	-	-	1,136		
87	X3S-W4S Reconductoring and Split	4/20/2018	1717	37,508	-	-	37,508	6/7/2019	
88	Pottersville Rebuild T-Line Work	12/26/2017	1635	8,628	-	-	8,628	8/23/2018	
89	J-10 Reconductoring	3/21/2018		84,199	-	-	84,199		
90	Tewksbury-Scobie Line	8/26/2016 1527, 1528		11,219	-	-	11,219		
91	Replace HMs - NEP	1/1/2021		1,582	1,582	-	3,165		
92	Dynamic Xfmr Rating Sandy Pond	11/14/2018		2,884	-	-	2,884		
93	Relocate X-24 T-Line for N. Grafton	5/10/2018		640	640	-	1,279		
94	Wakefield Jct additions - LG Cable	3/20/2018	1551	(1,239,520)	-	-	(1,239,520)		
95	Old Boston Road - Transmission Line	1/23/2018		4,489	40,399	-	44,887		
96	Grand Army 115 kV GIS Station	10/15/2018	1714	29,287	-	-	29,287	6/7/2019	
97	Sub Security - Perimeter Fence NEP	1/1/2021		840,274	840,274	-	1,680,547		
98	North Grafton Replace transformer	10/1/2018		-	2,582	-	2,582		
99	Ward Hill 2354 - 2375 Bkr Rplmnts	10/25/2019		-	1,519	-	1,519		
100	Bates St #1 Xfmr Failure	2/1/2019		-	181,431	-	181,431		
101	F-158S Reconductoring	1/29/2016	1550	(298,092)	-	-	(298,092)		
102	O15S Str 211 Replacement	10/1/2019		-	(30,971)	-	(30,971)		
103	4 Battery Online Monitors Inst NEP	1/26/2019		8,762	-	-	17,525		
104	A1/B2 Tap/Ftsg Pond Removal	12/19/2019		-	(26,995)	-	(26,995)		
105	25090648-S-ZeroPr-Berlin-Randall	5/30/2018		-	23,766	-	23,766		
106	F158S Replace airbreak switch	11/1/2017	1550	1,696	-	-	1,696		
107	26335066-T-ZeroPoint-Litchfield-Old	11/1/2019		-	26,981	-	26,981		
108	Pellham Security Enhance Sub 2020	10/12/2020		43,807	43,807	-	87,614		
109	Tewksbury 22 DFR and PMU install	4/15/2020		16,551	-	-	16,551		
110	Millbury #2 HVAC Failure	4/3/2020		315,431	-	-	315,431		
111	C129/ D130 Insulator Replacement	6/8/2020		99,734	-	-	99,734		
112	14761415-S-WldnSlr-Skuk-Wldn Ave	2/1/2018		-	351,283	-	351,283		
113	Wachuset GIS DoubleARMS Monitoring	6/30/2020		437,000	-	-	437,000		
114	DGA Monitor 9 3435X Xfmr	1/31/2020		12,735	-	-	12,735		
115	C181S D182S Switch Installation	3/18/2020		2,120,559	-	-	2,120,559		
116	Power flow control Fitch Rd Tsub	7/5/2019		-	58,492	-	58,492		
117	Bear Swamp 115 kV Cap Bank Upgrade	4/17/2020	1781	(46,788)	-	-	(46,788)		
118	Sub Monitoring Phl Millbury 5	6/20/2019		31,851	3,539	-	35,390		
119	Hendersoville - TP Line	1/28/2019		-	29,799	-	29,799		
120	Total			96,405,188	49,915,307	-	146,320,496		

New England Power Company
Forecasted Annual Transmission Revenue Requirements (ATRR)
Per Attachment II to the Settlement Agreement - Transition to Settled Formula Rate
Forecasted Plant Additions for CY 2022
Attachment 9(a)(2)

Line No.	Project Description	Construction Start	RSP ID (if applicable)	TCA Application Date	RNS				LNS					
					(A) 1st Qtr 2022	(B) 2nd Qtr 2022	(C) 3rd Qtr 2022	(D) 2022 Year End	(E) 2021 Year End	(F) 1st Qtr 2022	(G) 2nd Qtr 2022	(H) 3rd Qtr 2022	(I) 2022 Year End	(J) 5-Quarter Average
1	Adams - Install 115 kV Breakers	10/19/2017	945	5/25/2018	6,287	12,575	18,862	25,150	-	331	662	993	1,324	662
2	Tx Asset D/F Blanket Line Co5410	1/1/2022	-	-	38,306	76,613	114,919	153,225	-	38,306	76,613	114,919	153,225	76,613
3	Tx Asset D/F Blanket Sub Co5410	1/1/2022	-	-	132,834	265,669	398,503	531,338	-	132,834	265,669	398,503	531,338	265,669
4	Tx Asset Rplmt Blanket Line Co5410	1/1/2022	-	-	26,723	53,446	80,169	106,892	-	26,723	53,446	80,169	106,892	53,446
5	Tx I&M Repair Prgm Line Co5410	1/1/2022	-	-	120,473	240,945	361,418	481,891	-	120,473	240,945	361,418	481,891	240,945
6	Tx Asset Rplmt Blanket Sub Co5410	1/1/2022	-	-	24,455	48,910	73,365	97,821	-	24,455	48,910	73,365	97,821	48,910
7	BatterRplStrategyCo5410	1/1/2022	-	-	35,724	71,447	107,171	142,895	-	35,724	71,447	107,171	142,895	71,447
8	Tx Storm D/F Blanket Line Co5410	1/1/2022	-	-	15,739	31,479	47,218	62,958	-	15,739	31,479	47,218	62,958	31,479
9	Conductor Clearance - NEP Program	1/1/2022	-	-	20,105	40,210	60,315	80,420	-	20,105	40,210	60,315	80,420	40,210
10	HCC Capital Small Tools Co5410	1/1/2022	-	-	7,500	15,000	22,500	30,000	-	7,500	15,000	22,500	30,000	15,000
11	Land & Land Rights Acq/dsp	1/1/2022	-	-	7,325	14,650	21,975	29,300	-	7,325	14,650	21,975	29,300	14,650
12	ISO Relay Upgrd revised NPCC	1/1/2022	-	-	26,299	52,598	78,897	105,196	-	-	-	-	-	-
13	ST NEP Protection Circuit Migration	1/1/2022	-	-	30,804	61,609	92,413	123,217	-	30,804	61,609	92,413	123,217	61,609
14	Tx Cust-Public Resp Bklt Line 5410	1/1/2022	-	-	-	-	-	-	-	6,246	12,493	18,739	24,985	12,493
15	Tx Cust-Public Resp Bklt Sub 5410	1/1/2022	-	-	-	-	-	-	-	5,000	10,000	15,000	20,000	10,000
16	Telecom Small Capital Work - NEP	1/1/2022	-	-	9,516	19,032	28,548	38,064	-	9,516	19,032	28,548	38,064	19,032
17	Tx RelayOps Tools BlanketSub NEP	1/1/2022	-	-	37,498	74,996	112,495	149,993	-	37,498	74,996	112,495	149,993	74,996
18	NEP Footer Treatments	1/1/2022	-	-	349,875	699,749	1,049,624	1,399,498	-	349,875	699,749	1,049,624	1,399,498	699,749
19	NEP Wood Pole Treatments	1/1/2022	-	-	30,813	61,626	92,440	123,253	-	30,813	61,626	92,440	123,253	61,626
20	Fault Location Modernization (NEP)	1/1/2022	-	-	15,633	31,265	46,898	62,531	-	15,633	31,265	46,898	62,531	31,265
21	Golden Rock#19-Breaker & 2nd Transf	5/20/2019	-	-	-	-	-	-	-	5,309	10,619	15,928	21,238	10,619
22	A1/B2 Bird Deterrent Replacement	8/8/2019	-	-	22,306	44,612	66,918	89,224	-	-	-	-	-	-
23	NEP Station - Enhancements LG Term	11/1/2017	-	-	118,947	237,894	356,841	475,788	-	-	-	-	-	-
24	P-142 OPGW NPCC Pilot Scheme	3/2/2020	-	-	3,059	6,119	9,178	12,238	-	-	-	-	-	-
25	Sandy Pond 237 AC Sub Monitoring	11/21/2019	-	-	45,750	91,500	137,250	183,000	-	-	-	-	-	-
26	Power flow control W23 Line	8/24/2020	-	-	-	-	-	-	-	1,285	2,571	3,856	5,141	2,571
27	Sub Surveillance Sys Security NEP	10/12/2020	-	-	5,930	11,859	17,789	23,718	-	5,930	11,859	17,789	23,718	11,859
28	Potterville Swthy#115kV Rebuild	4/16/2018	1635	8/23/2018	7,340	14,680	22,020	29,360	-	-	-	-	-	-
29	SEMA-RI Brayton Point Upgrades	7/16/2019	1715	-	1,608	3,216	4,824	6,432	-	-	-	-	-	-
30	E Bridgewater NPCC Pilot Scheme	2/24/2020	-	-	10,992	21,984	32,976	43,968	-	-	-	-	-	-
31	Nitchfield DFRandPMU Installation	10/26/2020	-	-	819	1,638	2,457	3,276	-	-	-	-	-	-
32	B202 Str	8/31/2020	-	-	1,616	3,233	4,849	6,466	-	-	-	-	-	-
33	LT NEP Protection Circuit Migration	10/19/2020	-	-	62,500	125,000	187,500	250,000	-	62,500	125,000	187,500	250,000	125,000
34	Hendensville - TP Sub	11/18/2019	-	-	-	-	-	-	-	44,641	89,283	133,924	178,565	89,283
35	P142S Wave Trap Installation	6/1/2021	-	-	(43,030)	(86,060)	(129,090)	(172,120)	-	-	-	-	-	-
36	Comerford 18 Rehd 3318 Ln Wk	3/29/2019	-	-	-	-	-	-	-	9,348	18,695	28,043	37,391	18,695
37	Site 2 Modifications	4/6/2021	-	-	137,652	275,303	412,955	550,606	-	-	-	-	-	-
38	Brayton Point SF6 Monitor System	7/7/2021	-	-	25,725	51,449	77,174	102,898	-	-	-	-	-	-
39	C-129N Millid Tap NPCC Pilot	10/25/2021	-	-	152,779	305,559	458,338	611,118	-	-	-	-	-	-
40	Vernon Maintenance Bldg	4/16/2021	-	-	-	-	-	-	-	55,439	110,878	166,317	221,756	110,878
41	Golden Rock Phase II Sub	4/26/2021	-	-	-	-	-	-	-	185,679	371,358	557,038	742,717	371,358
42	Berry St. capacitor and breakers	9/7/2021	1714, 1719	-	81,619	163,237	244,856	326,475	-	-	-	-	-	-
43	Hathaway Sub Switch 640 Replace	9/13/2021	-	-	-	-	-	-	-	44,525	89,051	133,576	178,102	89,051
44	Bear Swamp 230kV PMU	9/30/2021	-	-	18,843	37,686	56,529	75,372	-	-	-	-	-	-
45	Read St Remote end work	11/18/2021	1718	-	27,234	54,468	81,701	108,935	-	-	-	-	-	-
46	Reynolds Ave Sub - TLine	4/1/2020	-	-	-	-	-	-	-	1,123,190	1,123,190	1,123,190	1,123,190	898,552
47	Deerfield 5 XFMR & OCB Replacement	9/13/2021	-	-	1,286,534	2,573,068	3,859,602	5,146,136	-	5,484,697	5,484,697	5,484,697	5,484,697	4,387,757
48	Q10 Relocation at Robinson Ave	2/18/2020	1718	-	1,042,669	2,085,338	3,128,007	4,170,676	-	-	-	-	-	-
49	E157W Beaver Impoundment Stns	7/12/2021	-	-	4,405,783	8,811,566	13,217,349	17,623,132	-	-	-	-	-	-
50	Hoonisic River Bank Stab&Erosion Ctrl	10/22/2021	-	-	2,619,409	5,238,818	7,858,227	10,477,636	-	-	-	-	-	-
51	Robinson Ave - Asset Cond Rplc & CH	2/20/2020	1718	1/27/2020	13,496,509	26,993,018	40,489,527	53,987,036	-	-	-	-	-	-
52	So Randolph #97 3V0 MA Prog T-SUB	12/10/2021	-	-	-	-	-	-	-	623,438	623,438	623,438	623,438	498,750
53	Palmer NPCC Pilot Scheme	2/22/2022	-	-	743,763	1,487,526	2,231,289	2,975,052	-	-	-	-	-	-
54	X-176 NPCC Pilot Scheme	9/1/2021	-	-	17,046,476	34,092,952	51,139,428	68,185,904	-	-	-	-	-	-
55	V25N ACR	11/1/2021	-	-	220,000	440,000	660,000	880,000	-	-	-	-	-	-
56	Rolle Ave NPCC Pilot Scheme	8/17/2020	-	-	704,936	1,409,872	2,114,808	2,819,744	-	-	-	-	-	-
57	W Boylston NPCC Pilot Scheme	2/7/2022	-	-	560,443	1,120,886	1,681,329	2,241,772	-	-	-	-	-	-
58	Replacse Chartley Pond T1	8/15/2021	-	-	-	-	-	-	-	2,163,301	2,163,301	2,163,301	2,163,301	1,622,475
59	M139 N140 NPCC Pilot Scheme	2/4/2022	-	-	7,837,054	15,674,108	23,511,162	31,348,216	-	80,179	80,179	80,179	80,179	60,134
60	Martens 311 3V0	11/15/2021	-	-	-	-	-	-	-	580,734	580,734	580,734	580,734	435,551
61	Swansea Sub Damage switches	3/22/2022	-	-	580,734	1,161,468	1,742,202	2,322,936	-	-	-	-	-	-
62	Billerica #70 3V0 MA Program T-Sub	12/1/2021	-	-	-	-	-	-	-	291,434	291,434	291,434	291,434	218,575
63	5145 Tap ACR	5/3/2021	-	-	-	-	14,068,357	14,068,357	-	-	-	-	-	-
64	Perry St NPCC Pilot Scheme	7/15/2022	-	-	-	-	90,866	90,866	-	-	-	-	-	-
65	Site 4 Modifications	11/22/2021	-	-	3,827,351	7,654,702	11,482,053	15,309,404	-	-	-	-	-	-
66	2388 Underground Getaway	2/8/2022	-	-	-	-	-	-	-	756,879	756,879	756,879	756,879	504,586
67	NPCC - Melrose No. 2 & 25	5/11/2022	-	-	-	-	348,323	348,323	-	-	-	-	-	-
68	W Methuen NPCC Pilot Scheme	7/15/2022	-	-	-	-	125,864	125,864	-	-	-	-	-	-
69	TP Sandy Pond Tert. Ld - Sub	11/24/2021	-	-	-	-	2,157,308	2,157,308	-	-	-	-	-	-
70	326 Consolidated Repair Work	8/1/2022	-	-	-	-	2,353,240	2,353,240	-	-	-	-	-	-
71	N-192 Cable Rplcmt - Waite St Term	6/8/2021	-	-	-	-	-	-	-	-	-	-	-	-
72	V-174 NPCC Pilot Scheme	12/8/2022	-	-	-	-	20,038,847	20,038,847	-	-	-	-	-	-
73	N-192 Beverly #12 Riser Termination	8/2/2021	-	-	-	-	-	-	-	-	-	-	-	-
74	VIV Transformer Mobile NEP	8/23/2022	-	-	-	-	-	-	-	-	-	-	-	-
75	Greater BOS FERC Order 1000 Sols	10/6/2021	1875, 1876	-	-	-	26,356,482	26,356,482	-	-	-	-	-	-
76					25,212,265	53,779,506	73,857,867	126,381,342	-	8,560,882	13,006,088	15,092,525	39,588,423	15,249,584

The Narragansett Electric Company
Project Breakdown for RNS Plant Additions for Calendar Year 2023

Line	Project	Project Owner	Project Type	Forecasted Plant In-Service Balances					5-Quarter Average
				Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	
1	Add a new 345 kV cable from Woburn substation to the Wakefield substation and terminal equipment at Woburn including a 160 MVAR 345 kV reactor	Eversource	Reliability Upgrade	-	-	121,800,000	121,800,000	121,800,000	73,080,000
2	Add one 115 kV circuit breaker and re-terminate the 400-1 line section into Tunnel substation. Energize 400 Line at 115 kV	Eversource	Reliability Upgrade	-	-	-	-	6,000,000	1,200,000
3	Addition of a +/-150 MVAR STATCOM at Tunk Lake	Versant Power	Generator Interconnection Upgrade	-	-	-	-	-	-
4	Addition of a new 115 kV Switching Station on line 52 between Deblis and Epping	Versant Power	Generator Interconnection Upgrade	-	-	-	-	-	-
5	Build a new 115 kV line from Sudbury Station 342 substation to Hudson substation	Eversource	Reliability Upgrade	-	-	-	-	91,000,000	18,200,000
6	Build a new Bourne #917 to West Barnstable #921 115 kV line and associated terminal work	Eversource	Reliability Upgrade	-	-	-	-	52,324,000	10,464,800
7	Cable and terminal work at Wakefield 345 kV substation for the new 345 kV cable between Woburn and Wakefield including the addition of a 160 MVAR variable shunt reactor	National Grid, USA	Reliability Upgrade	-	-	79,364,000	79,364,000	79,364,000	47,618,400
8	Construct 1.6 miles of new 345 kV AC transmission line from Merrill Road 345 kV Substation to Larrabee Road 345 kV Substation.	Central Maine Power Company	Elective Upgrade	-	-	-	-	-	-
9	Construct 207 miles of new 320 kV symmetrical monopole HVDC transmission line from Appalaches Substation in Saint-Adrien-d'Irlande, Quebec to Merrill Road Substation in Lewiston, ME.	Central Maine Power Company	Elective Upgrade	-	-	-	-	-	-
10	Construct a new 115 kV three-breaker ring bus substation in Hinsdale, NH to interconnect the QP 727 solar project.	National Grid, USA	Generator Interconnection Upgrade	-	-	-	-	-	-
11	Construct a new 345 kV three breaker ring bus Cotton Bridge Substation	Eversource	Generator Interconnection Upgrade	-	-	-	-	-	-
12	Construct a new HVDC Converter Terminal at Merrill Road Substation.	Central Maine Power Company	Elective Upgrade	-	-	-	-	-	-
13	Construct new Coopers Mills to Maine Yankee 345 kV line	Central Maine Power Company	Elective Upgrade	-	-	-	-	-	-
14	Convert Gales Ferry substation from 69 kV to 115 kV	Eversource	Reliability Upgrade	-	-	-	-	13,100,000	2,620,000
15	Convert the 400-2 Line Section to 115 kV (Border Bus to Buddington), convert Buddington to 115 kV	CMEEC	Reliability Upgrade	-	-	-	-	2,900,000	580,000
16	Extend Line 114 - Dartmouth town line (Eversource- NGRID border) to Bell Rock (~4.2 miles)	National Grid, USA	Reliability Upgrade	-	-	-	-	13,944,000	2,788,800
17	Extend the 115 kV 114 line from Eversource/National Grid border to Industrial Park Tap	Eversource	Reliability Upgrade	-	-	-	-	34,285,000	6,857,000
18	Forest Ave Substation modification required to build a new 115 kV line from Sudbury Station 342 substation to Hudson substation (This is the HLP portion of the line and terminal work)	Hudson Light and Power	Reliability Upgrade	-	-	-	-	5,500,000	1,100,000
19	Install 2nd Larrabee Road 345/115 kV autotransformer	Central Maine Power Company	Elective Upgrade	-	-	-	-	-	-
20	Install a +100/-50 MVAR synchronous condenser at Amherst 345 kV Substation with two 345 kV breakers	Eversource	Reliability Upgrade	-	-	-	-	53,600,000	10,720,000
21	Install a +50/-25 MVAR synchronous condenser at Huckins Hill 115 kV Substation with a 115 kV breaker	Eversource	Reliability Upgrade	-	-	-	36,200,000	36,200,000	14,480,000
22	Install a +50/-25 MVAR synchronous condenser at N. Keene 115 kV Substation with a 115 kV breaker	Eversource	Reliability Upgrade	-	-	-	36,200,000	36,200,000	14,480,000
23	Install a 10 MVAR reactor at Keene Road 115 kV substation	Versant Power	Reliability Upgrade	-	-	-	-	6,000,000	1,200,000
24	Install a 115 kV breaker to the existing three-breaker ring bus at Canterbury 67F.	Eversource	Generator Interconnection Upgrade	-	-	-	-	-	-
25	Install a 115 kV circuit breaker at the Roxbury substation bus #1 adjacent to the KGT1-1 breaker.	Central Maine Power Company	Generator Interconnection Upgrade	-	-	-	-	-	-
26	Install a 69 kV circuit breaker at the Montville 4J Substation.	Eversource	Generator Interconnection Upgrade	-	-	-	-	-	-
27	Install a direct transfer trip (DTT) scheme between Ward Hill and West Amesbury Substations for Line 394	National Grid, USA	Reliability Upgrade	-	815,000	815,000	815,000	815,000	652,000
28	Install a second 345/115 kV autotransformer (4X) and one 345 kV breaker at Card substation	Eversource	Reliability Upgrade	-	20,100,000	20,100,000	20,100,000	20,100,000	16,080,000
29	Install one (1) 50 MVAR reactor bank on Bus #1 of the Buxton 345 kV Substation	Central Maine Power Company	Elective Upgrade	-	-	-	-	-	-
30	Install one +/- 167 MVAR STATCOM at Tewksbury 345 kV substation	National Grid, USA	Reliability Upgrade	-	-	-	-	32,919,000	6,583,800
31	Install one 115 kV circuit breaker in series with Card substation 4T	Eversource	Reliability Upgrade	-	2,200,000	2,200,000	2,200,000	2,200,000	1,760,000
32	Install three remotely monitored and controlled switches to split the existing Orrington reactors between the two Orrington 345/115 kV autotransformers	Versant Power	Reliability Upgrade	-	-	-	-	1,000,000	200,000
33	Install two 115 kV breakers and associated equipment at the Barnstable #958 substation	Eversource	Generator Interconnection Upgrade	-	-	-	-	-	-
34	Install two 50 MVAR capacitors on Line 363 near Seabrook station with three 345 kV breakers	New Hampshire Transmission	Reliability Upgrade	-	-	-	-	8,900,000	1,780,000
35	Loop 201-502 line into Medway #65 Substation to form the 201-502N and 201-502S lines	Eversource	Reliability Upgrade	-	27,000,000	27,000,000	27,000,000	27,000,000	21,600,000

Line	Project	Project Owner	Project Type	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	5-Quarter Average
36	Rebuild of 3.25 miles of Line 59 between Epping and Columbia	Versant Power	Generator Interconnection Upgrade	-	-	-	-	-	-
37	Reconfigure Bell Rock to breaker and a half station, and upgrade to BPS standards, split M13 line at Bell Rock and terminate 114 line at Bell Rock. Install new breaker in series with N12/D21 tie breaker, upgrade D21 line switch and install 37.5 MVAR capacitor.	National Grid, USA	Reliability Upgrade	-	-	-	-	30,800,000	6,160,000
38	Reterminate the 100 Line at Montville station and associated work. Energize the 100 Line at 115 kv	Eversource	Reliability Upgrade	-	-	-	-	8,200,000	1,640,000
39	Sectionalize the 3271 345 kv line with a tap in and out of the Cotton Bridge Substation	Eversource	Generator Interconnection Upgrade	-	-	-	-	-	-
40	Upgrade Card 115 kv to BPS standards	Eversource	Reliability Upgrade	-	20,300,000	20,300,000	20,300,000	20,300,000	16,240,000
41	Upgrade the protection systems to meet the NPCC BPS design requirements at the Tremont #713 substation	Eversource	Generator Interconnection Upgrade	-	-	-	-	-	-
42	110-510 & 110-511 lines 115 kv HPFF refurbishment	Eversource	Asset Condition	-	-	97,995,000	97,995,000	97,995,000	58,797,000
43	115 kv GIS breaker replacement at Kingston Street #514 Substation	Eversource	Asset Condition	-	-	39,082,000	39,082,000	39,082,000	23,449,200
44	115 kv Wood Pole and Shield Wire Replacement - 1232	Eversource	Asset Condition	-	-	-	-	6,700,000	1,340,000
45	115 kv Wood Pole and Shield Wire Replacement - 1280	Eversource	Asset Condition	-	-	-	-	12,000,000	2,400,000
46	115 kv Wood Pole and Shield Wire Replacement - 1618	Eversource	Asset Condition	-	-	-	-	8,767,000	1,753,400
47	115 kv Wood Pole Replacement - 1000	Eversource	Asset Condition	-	-	-	-	12,400,000	2,480,000
48	115 kv Wood Pole Replacement - 1080	Eversource	Asset Condition	-	-	-	-	24,180,000	4,836,000
49	115 kv Wood Pole Replacement - 1910	Eversource	Asset Condition	-	-	-	-	10,300,000	2,060,000
50	282-520 & 282-521 115 kv Lines HPFF Refurbishment	Eversource	Asset Condition	-	-	-	69,600,000	69,600,000	27,840,000
51	Carpenter Hill Control House Rebuild	National Grid, USA	Asset Condition	-	-	14,485,000	14,485,000	14,485,000	8,691,000
52	Congress 115 kv Substation Flood Wall	United Illuminating Company	Asset Condition	-	-	31,770,000	31,770,000	31,770,000	19,062,000
53	Copper Conductor and Shield Wire Replacement - Line 1231/1242	Eversource	Asset Condition	-	-	-	-	97,000,000	19,400,000
54	Kingston Substation #735 Asset Condition Replacement	Eversource	Asset Condition	-	-	-	-	10,428,000	2,085,600
55	Lexington Station #320 Asset Condition Upgrade Project	Eversource	Asset Condition	-	-	16,612,000	16,612,000	16,612,000	9,967,200
56	Rebuild Bourne Substation as a breaker and one half scheme	Eversource	Asset Condition	-	69,893,000	69,893,000	69,893,000	69,893,000	55,914,400
57	Singer 345kv Substation Flood Wall	United Illuminating Company	Asset Condition	-	21,960,000	21,960,000	21,960,000	21,960,000	17,568,000
58	V-148S Asset Condition Refurbishment and Switch Replacement - MA Portion	National Grid, USA	Asset Condition	-	-	-	-	10,411,000	2,082,200
59	V-148S Asset Condition Refurbishment and Switch Replacement - RI Portion	National Grid, USA	Asset Condition	-	-	-	-	14,322,000	2,864,400
60	Webster-Beebe River 115 kv Corridor Asset Condition and OPGW Project - E115 Line	Eversource	Asset Condition	-	-	-	-	55,116,000	11,023,200
61	Total			-	162,268,000	563,376,000	705,376,000	1,327,472,000	551,698,400

Notes

Plant additions as per ISO-NE Regional System Planning & Asset Condition List for CY2023. Sourced from ISO-NE:
<https://www.iso-ne.com/system-planning/system-plans-studies/rsp/>

The Narragansett Electric Company
Project Breakdown for LNS Plant Additions for Calendar Year 2023

Line	Project Description	Project Type	Forecasted Plant In-Service Balances					5-Quarter Average	
			Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023		
1	1302 ACR	Asset Condition	-	-	814,500	814,500	814,500	814,500	488,700
2	2388 Underground Getaway		-	44,540	44,540	44,540	44,540	44,540	35,632
3	Adams - Install 115 kV Breakers	Western Mass / Adams	-	1,324	1,324	1,324	1,324	1,324	1,059
4	BatterRplStrategyCo5410	Asset Condition	-	170,045	170,045	170,045	170,045	170,045	136,036
5	Billierica #70 3V0 MA Program T-Sub		-	35,631	35,631	35,631	35,631	35,631	28,505
6	Deerfield 5 XFMR & OCB Replacement	Transformer / OCB Replacement	-	13,111	13,111	13,111	13,111	13,111	10,489
7	E. Tewks #1 & #2 TRF upgrade	E Tewksbury #1 & #2 TRF Rep	-	-	10,152,889	10,152,889	10,152,889	10,152,889	6,091,733
8	Golden Rock Phase II Sub	Golden Rock	-	10,153	10,153	10,153	10,153	10,153	8,123
9	Greater BOS FERC Order 1000 Solns	Mystic Backstop Solution	-	451,178	451,178	451,178	451,178	451,178	360,942
10	IHC Capital Small Tools Co5410	Blanket (Small)	-	30,000	30,000	30,000	30,000	30,000	24,000
11	J162 Lowell - Tewksbury ACR	OHL ACR	-	-	-	-	90,000	-	18,000
12	Land & Land Rights Acq/disp		-	29,200	29,200	29,200	29,200	29,200	23,360
13	Marlboro 311 3V0		-	122,857	122,857	122,857	122,857	122,857	98,286
14	N Marlboro Expansion (T-Line)	North Marlborough #318 Subs	-	-	-	1,947,303	1,947,303	-	778,921
15	N-192 Beverly #12 Riser Termination	UG Cable / N192	-	3,759	3,759	3,759	3,759	3,759	3,007
16	N-192 Cable Rplmnt - Waite St Term	UG Cable / N192	-	171,727	171,727	171,727	171,727	171,727	137,381
17	N-192 East Beverly 51 Substation	UG Cable / N192	-	2,734	2,734	2,734	2,734	2,734	2,187
18	N-192 UG Transmission Cable Relocat	UG Cable / N192	-	46,855,247	46,855,247	46,855,247	46,855,247	46,855,247	37,484,198
19	NEP Footer Treatments		-	1,399,357	1,399,357	1,399,357	1,399,357	1,399,357	1,119,486
20	NEP Wood Pole Treatments		-	125,512	125,512	125,512	125,512	125,512	100,410
21	O&M Storage Bldg Spare Transformers		-	750,000	750,000	750,000	750,000	750,000	600,000
22	Pratts Junction Relay Upgrades		-	-	-	-	675,543	-	135,109
23	Reynolds Ave Sub - TLine	Attleboro Area Capacity Project	-	126,619	126,619	126,619	126,619	126,619	101,295
24	Reynolds Ave Sub - TSub	Attleboro Area Capacity Project	-	8,782,589	8,782,589	8,782,589	8,782,589	8,782,589	7,026,071
25	So Randolph #97 3V0 MA Prog T-SUB		-	184,063	184,063	184,063	184,063	184,063	147,250
26	ST NEP Protection Circuit Migration	Telecom / Relay	-	28,681	28,681	28,681	28,681	28,681	22,945
27	Swansea Sub Damage switches		-	90,532	90,532	90,532	90,532	90,532	72,425
28	Telecom Small Capital Work - NEP		-	37,500	37,500	37,500	37,500	37,500	30,000
29	TP Sandy Pond Tert. Ld - Sub	Sandy Pond	-	93,750	93,750	93,750	93,750	93,750	75,000
30	Tx Asset D/F Blanket Line Co5410	Blanket (Small)	-	149,700	149,700	149,700	149,700	149,700	119,760
31	Tx Asset D/F Blanket Sub Co5410.	Blanket (Small)	-	504,000	504,000	504,000	504,000	504,000	403,200
32	Tx Asset Rplmt Blanket Line Co5410	Blanket (Small)	-	106,925	106,925	106,925	106,925	106,925	85,540
33	Tx Asset Rplmt Blanket Sub Co5410	Blanket (Small)	-	97,826	97,826	97,826	97,826	97,826	78,261
34	Tx Cust/Public Reqs Blkt Line 5410	SunConnect - Rehoboth, Ma	-	25,000	25,000	25,000	25,000	25,000	20,000
35	Tx Cust/Public Reqs Blkt Sub 5410	Kearsarge, 499kW Athol	-	20,000	20,000	20,000	20,000	20,000	16,000
36	Tx I&M Repair Prgm Line Co5410.	Blanket (Small) - I&M	-	474,950	474,950	474,950	474,950	474,950	379,960
37	Tx RelayOps Tools BlanketSub NEP		-	150,000	150,000	150,000	150,000	150,000	120,000
38	Tx Storm D/F Blanket Line Co5410	Blanket (Small)	-	50,320	50,320	50,320	50,320	50,320	40,256
39	VHV Transformer Mobile NEP	VHV Transformers	-	1,338,235	1,338,235	1,338,235	1,338,235	1,338,235	1,070,588
40	Total		-	62,477,064	73,444,453	75,391,756	76,157,299	76,157,299	57,494,115

Notes

Plant additions as per Internal Records