

Andrew S. Marcaccio, Counsel
PPL Services Corporation
amarcaccio@pplweb.com

280 Melrose St.
Providence, RI 02907
Phone 401-784-4263



February 15, 2024

VIA ELECTRONIC MAIL

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

RE: Docket No. 22-53-EL – FY2024 Electric Infrastructure, Safety, and Reliability Plan Quarterly Update – Third Quarter Ending December 31, 2023

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy, I have enclosed an electronic version of the Company's fiscal year (FY) 2024 Electric Infrastructure, Safety, and Reliability (ISR) Plan quarterly update for the third quarter ending December 31, 2023. Pursuant to the provisions of the approved FY 2018 Electric ISR Plan, the Company committed to providing quarterly updates on the progress of its Electric ISR program to the Rhode Island Public Utilities Commission and the Rhode Island Division of Public Utilities and Carriers.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew S. Marcaccio".

Andrew S. Marcaccio

Enclosure

cc: Docket 22-53-EL Service List

**Electric Infrastructure, Safety, and Reliability Plan
ISR Plan Fiscal Year 2024 -- Third Quarter Update
For the Nine Months Ending December 31, 2023**

EXECUTIVE SUMMARY

As shown in Attachment A, The Narragansett Electric Company d/b/a Rhode Island Energy (the “Company”) spent \$98.7 million for capital projects against a budget of \$86.3 million during the nine months of ISR Plan Fiscal Year 2024 (April 1, 2023 through March 31, 2024, or “FY 2024”) for its electric infrastructure, safety, and reliability (“ISR”) plan. Non-Discretionary spending was \$45.4 million, \$13.4 million over budget. Discretionary spending, including the separately tracked large projects, was \$53.3 million, \$1.0 million under budget. For FY 2024, the Company forecasts capital spending over budget due to non-discretionary spending related to transformers purchases and failed assets. Spending in each of these categories is addressed in more detail below.

I. FY 2024 Capital Spending by Key Driver Category

1. Non-Discretionary Spending

a. Customer Request/Public Requirement

During the nine months ending December 31, 2023, capital spending in the Customer Request/Public Requirement category was \$29.7 million, which was \$9.2 million over the budget of \$20.5 million. The Company forecasts capital spending of \$32.6 million during the year. The major drivers were:

- Spending on Third-Party Attachment projects was in a credit position as of December 31, 2023 due to the collection of customer advances for projects that are anticipated to be completed by March 31, 2023. The Company is forecasting that this category of spending will be slightly over budget at year end.
- Distributed Generation (“DG”) capital spending activity, net of DG customer contributions, was \$5.8 million for the nine months ending December 31, 2023. The Company continues to review and reconcile DG projects and is anticipating that capital spending will be reduced by customer advances during the reconciliation process. As discussed in the Company’s 2023 Annual Reconciliation Filing, plant additions related to a DG project will not be included in the revenue requirement until a review of the project is completed.
- Capital spending on New Business work was \$14.2 million, \$2.0 million over budget. The Company is forecasting that spending will be over budget at year end primarily due to spending on emerging customer work that exceeded the reserves established in the budget.
- Public Requirements capital spending was \$2.0 million. Spending under the blanket project remains close to budget. Two projects for the RI Department of Transportation were completed and billing is expected to occur by the end of the year. During the nine months ending December 31, 2023, capital spending for these projects totaled \$1.0 million.
- Meter purchases and work are under budget and are forecasted to be under budget at year end. Detailed meter and instrument purchases are shown in Attachment H to this report.
- Capital spending for transformers, voltage regulators, and capacitors is forecasted to be over budget at year end. Supply chain challenges continue to impact pricing and availability of transformers and related equipment. These include extended lead times, demand exceeding capacity, raw material shortages, and logistical

constraints. During 2023, the Company sought alternate sources of supply, continued to place proactive orders to mitigate future supply gaps, and increased inventory levels to support work plans and respond to emergencies.

b. Damage/Failure

During the nine months ending December 31, 2023, capital spending in the Damage/Failure category was \$15.7 million, which was \$4.1 million over budget. The Company forecasts capital spending of \$20.5 million during the year. The major drivers were:

- Spending in the Overhead Line and Substation Damage/Failure Blanket Projects was \$9.9 million, \$1.7 million over budget. Delays associated with billing property damage work have affected the Overhead Line Blanket project. A significant amount of property damage billing took place in October. The Substation Blanket project includes costs associated with the Apponaug Substation and Sprague Street transformer failures as described in more detail below.
- Actual capital spending related to storms and weather-related events was over budget for the nine months ending December 31, 2023. The Company forecasts that storm costs will be over budget at year end.
- During ISR Plan Year 2022, the Westerly #2 transformer failed and a spare transformer was installed. Due to delays in delivery of the spare transformer, minimal spending is forecasted in FY 2024. Delivery of the spare transformer is scheduled for June 2024.
- In August 2022, the Nasonville Substation metal clad switchgear was damaged beyond repair due to a bus fault. Removal of the failed equipment has been completed. Final engineering is ongoing. Due to changes in the substation layout, required to re-use the existing transformer, the feeder get-a-way scope was increased; these changes have resulted in increased costs. The Company is currently evaluating civil construction bids which have come in higher than originally anticipated. Forecasted capital spending for FY 2024 is \$3.4 million.
- In 2022, the Hopkins Hill #2 transformer was taken out of service because of gassing. A mobile transformer has been installed. It is expected that the transformer teardown, visual inspection, and final report will be completed by January 2026. The first installment payment, for the new transformer, will be made by March 31, 2024. The transformer is expected to be received during the ISR Plan Fiscal Year 2026.

- In July 2023, the transformer at Apponaug Substation failed. A spare transformer was used to replace the failed unit. A controlled teardown of the failed unit was performed. The inspection revealed arcing damage believed to have been caused by the lightning strike. Capital spending of less than \$100,000 has taken place during 2024 and is included in the Substation Damage/Failure Blanket project.
- In May 2023, the #2 transformer at Sprague Street Substation failed. Costs associated with the immediate repair/replacement are included in the Substation Blanket project. The T3 transformer at Olneyville Substation was moved to replace the #2 Transformer at Sprague Street.

2. Discretionary Spending

a. Asset Condition (Without Separately Tracked Large Projects)

During the nine months ending December 31, 2023, capital spending in the Asset Condition category (excluding separately tracked large projects) was \$20.8 million, \$2.7 million over budget. The major drivers in this category are as follows:

- Capital spending on inspection and maintenance work (“I&M”) was \$0.3 million for the nine months ending December 31, 2023. I&M is forecasted to end the year under budget due a re- prioritization of the discretionary portfolio.
- Through December 31, 2023, capital spending for the Underground Cable Replacement program was \$4.2 million. The Company forecasts that this program will be under budget at year end due to prioritizing the completion of the Dyer Street distribution underground work. Both projects rely on similar constrained resources, both materials and crews.
- Through December 31, 2023, capital spending for the URD program was \$5.3 million. The Company is forecasting additional spending of \$1.2 million through the end of the year, coming in slightly over budget.
- After delays in 2023, the 3763 Pole Replacement project has progressed, and the assets are expected to be in service by March 31, 2024. The Company forecasts capital spending of \$1.6 million during FY 2024, most of which has occurred. The project is forecasted to be \$0.8 million over the FY 2024 budget due to the deferral of spending in 2023.

- Capital spending for work performed under the Asset Replacement blanket projects was \$4.3 million as of December 31, 2023, \$0.4 million over budget. The Company forecasts coming in over budget at the end of the year. Two work requests are forecasted to have capital spending over \$200,000 for the year.
- Work continues to take place on the replacement of 18 reclosers approved in the FY 2024 Plan. As of December 31, 2023, replacement of all reclosers has begun, with most installations complete. The Company forecasts all assets will be in service at year end and expects the project to be slightly under budget.
- In the third quarter, the Company allocated costs associated with area studies that had accumulated in the Preliminary Survey and Investigation project. The costs were reclassified to the capital projects coming out of the area studies and appear in those projects as additional capital spending in FY 2024. The spending took place in previous years and FY 2024 activity was simply an allocation of accumulated costs. Capital projects in the Asset Condition category received \$0.8 million of the allocation while the PS&I project received a \$0.8 million credit. The net FY 2024 portfolio impact is zero. These projects did not have an FY 2024 budget. For additional details, please see the table included in Section (c) of this report.

b. Non-Infrastructure

During the first nine months of FY 2024, capital spending for Non-infrastructure projects was under budget. The Company is forecasting that capital spending in this category will be under budget at the end of the year due to delays related to the Copper to Fiber Conversion project.

c. System Capacity and Performance (Without Separately Tracked Large Projects)

During the nine months ending December 31, 2023, capital spending for the System Capacity and Performance category was \$10.8 million, \$0.9 million under budget. The major drivers in this category were as follows:

- Capital spending on the New Lafayette Substation project is running under budget and is forecasted to remain under budget until year end. The construction start date has been delayed due to transmission outage coordination issues.

- During the nine months ending December 31, 2023, capital spending on the CEMI-4 project totaled \$1.1 million. Work to fix reliability issues for customers experiencing significantly poorer service than system or circuit averages has begun on multiple circuits. The Company forecasts spending to the budget of \$1.2 million.
- During the first nine months, capital spending on the substation improvement projects in the Aquidneck Island area totaled \$1.2 million. The assets associated with the Merton Substation Improvements project were placed into service. Work continues on the Harrison Substation and the Kingston Substation improvements projects. Both projects are forecasted to be in service by year end.
- Delays associated with the Weaver Hill Substation have resulted in an underspend of \$0.6 million as of December 31, 2023. Planned work has been deferred until FY 2025 for portfolio management purposes.
- As a result of the allocation of area study costs accumulating in the Preliminary Survey and Investigation project, described in more detail below, the Nasonville Substation project will end the year overbudget by \$0.4 million. Initial payments for the transformer, as well as civil work at the substation, and design for the distribution line are in progress this year.
During the nine months ending December 31, 2023, capital spending on the System Capacity & Performance Blanket projects was over budget by \$3.3 million. The Company forecasts being over budget at the end of the year. Work was driven by annual capacity and reliability reviews. The Company has reprioritized work to reduce outage exposure and address reliability and load issues while still focusing on delivering the discretionary portfolio on budget. The Company continues to review all work to ensure it is appropriately categorized. In the third quarter, the Company allocated \$1.9 million of costs associated with area studies that had accumulated in the Preliminary Survey and Investigation (PS&I) project in previous years. The costs were reclassified to the capital projects coming out of the area studies and appear as additional capital spending during FY 2024. The spending took place in previous years and FY 2024 activity was simply an allocation of accumulated costs. Capital projects in the Asset Condition category received \$0.8 million of the allocation. These projects did not have an FY 2024 budget. System Capacity and Performance projects, including the Nasonville Substation project noted above, received \$1.1 million of the allocation.

The table below shows the projects that received charges during FY 2024:

Allocation of Preliminary Survey & Investigation (PS&I) Costs	
<i>\$000's</i>	
<u>Asset Condition Projects:</u>	
Tiverton Substation	\$60
Centredale Substation	134
Apponaug Substation	27
Central Falls 4KV Conversion	120
Crossman 4KV Conversion	120
Hospital Substation Replacement	98
Kingston Substation Replacement	96
Valley Farnum 23kv conversion	120
Total Asset Condition Allocation	773
<u>System Capacity & Performance Projects:</u>	
Tiverton D Line	22
Weaver Hill Substation	334
Nasonville Substation	406
Coventry	111
Kenyon	101
Staples #112	120
Warren Substation	8
Total System Cap & Perf Allocation	1,101
Total PS&I Allocated	\$1,874

d. Advanced Metering Functionality (AMF)

The Company has included the capital spending associated with the deployment of its AMF program described in Docket No. 22-49-EL as a separate Discretionary category in its Proposed FY 2025 ISR Plan. Capital spending of \$5.1 million is forecasted in FY 2024 in the following areas:

	FY 2024 Forecast \$000's
Meter Costs	\$0
Network Costs	0
System Costs	4,152
Program Costs	945
Capital Spending - AMF	\$5,097

e. Separately Tracked Large Projects

During Plan Year 2024, capital spending on the following Large Projects is tracked and reported separately: Southeast Substation, Dyer Street Substation, Providence Study projects, East Providence Substation, and Warren Substation. Each project is discussed in Attachment G.

f. Large Project Variances

The Company provides explanations for large projects¹ with variances that exceed +/- 10% of the Plan Year budget in quarterly reports. These projects represent \$33.3 million of the 2024 budget of \$112.3 million. This project information is provided in Attachment E.

g. New Distribution System Technology Update

The Quarterly Updates include an explanation of new technologies the Company is exploring to assist in distribution system planning, particularly as they relate to the integration of DERs or to provide additional visibility on the distribution system. The Company continues to increase its use of Python Scripting to improve automation in CYME as well as other computer programs. For example, the grid modernization analysis utilized Python scripts for electric vehicle, electric heat pump, and DG placement within the CYME models.

3. Investment Placed-in-Service

During the nine months ending December 31, 2023, \$57.2 million of plant additions were placed in service, which was 64% of target. The Company is forecasting plant additions of \$104.0 million, over the Plan's target of \$89.0 million primarily driven by Dyer Street Substation assets. Details by spending rationale are included in Attachment B.

4. Vegetation Management

During the nine months ending December 31, 2023, the Company completed 981 miles, or 80%, of its annual distribution mileage cycle pruning goal of 1,231 miles. The Company expects to complete 100% of its work plan this year. The Company spent \$8.3 million during the nine months and forecasts spending \$14.0 million during FY 2024.

¹ Large projects are defined as projects exceeding \$1.0 million in total project cost.

The Company agreed to provide additional information on its vegetation management program that allows for the disaggregation of cycle pruning and the enhanced hazard tree management program. A plan to collect data was provided in a May 15, 2023 letter to the Public Utilities Commission.

Attachment C provides the O&M spending and the Off Cycle Risk Reduction removal counts by circuit, as well as the additional information noted in the paragraph above.

5. Inspection and Maintenance

I&M program costs for the first six months of FY 2024 are shown in Attachment D. This spending includes mobile elevated voltage testing and repairs, which the Rhode Island Public Utilities Commission approved in Docket No. 4237. During this time, the Company identified one Level I deficiency. The Level I stray voltage deficiency was identified and repaired on August 3, 2023. When Level I deficiencies are identified, they are repaired immediately or within 30 days of the inspection.

The Company began its annual inspection of targeted overhead structures and elevated voltage testing on January 1, 2023 as inspections and elevated voltage testing now take place on a calendar year basis. The table below shows the number of units tested during this period.

Manual Elevated Voltage Testing				
Manual Elevated Voltage Testing	Total System Units Requiring Testing	Units Completed 1/1/23 thru 12/31/23	Units with Voltage Found (>1.0v)	Percent of Units Tested with Voltage (>1.0v)
Distribution Facilities	274,396	55,555	0	0.000%
Underground Facilities	12,438	0	0	0.000%
Street Lights and Signal Controls	4,929	0	0	0.000%

Attachment A

**Capital Spending by Spending Rationale
For the Nine Months Ending December 31, 2023
(\$000)**

	YTD December 31, 2023			Plan Year 2024		
	Budget	Actuals	Over Spend / (Under Spend)	Budget	Forecast	Over Spend / (Under Spend)
Customer Request/Public Requirement	\$20,475	\$29,711	\$9,236	\$27,514	\$32,569	\$5,055
Damage Failure	11,565	15,716	4,150	15,192	20,547	5,355
<i>Non-Discretionary Spending</i>	32,040	45,427	13,387	42,706	53,116	10,410
Asset Condition	18,130	20,780	2,650	23,346	23,889	543
Non-Infrastructure	1,269	(793)	(2,062)	1,700	562	(1,138)
System Capacity & Performance	11,628	10,776	(852)	16,898	14,453	(2,445)
	31,027	30,763	(263)	41,944	38,904	(3,039)
Large Projects Separately Tracked	23,237	22,508	(729)	27,679	32,020	4,341
<i>Discretionary Spending</i>	54,264	53,272	(993)	69,623	70,924	1,302
Total Capital Spending	\$86,305	\$98,699	\$12,394	\$112,329	\$124,040	\$11,711

Attachment B

**Plant Additions by Spending Rationale
For the Nine Months Ending December 31, 2023
(\$000)**

	ISR Plan Fiscal Year 2024			% of Target Placed In Service
	Target	Actuals	Forecast	
Customer Request/Public Requirement	\$27,742	\$22,679	\$29,865	82%
Damage Failure	16,303	10,504	14,556	64%
<i>Subtotal Non-Discretionary</i>	<i>44,045</i>	<i>33,183</i>	<i>44,421</i>	<i>75%</i>
Asset Condition (w/Sep Tracked Large Projects)	32,720	17,410	47,109	53%
Non- Infrastructure	1,213	83	230	7%
System Cap & Perf (w/Sep Tracked Large Projects)	11,048	6,519	12,271	59%
<i>Subtotal Discretionary</i>	<i>44,981</i>	<i>24,011</i>	<i>59,611</i>	<i>53%</i>
Total Plant Additions	\$89,026	\$57,194	\$104,032	64%

Attachment C

**Vegetation Management
For the Nine Months Ending December 31, 2023
(\$000)**

Vegetation Management O&M Spending

	2024 Budget	Actual Spending	2024 Forecast	% Spend
Cycle Pruning (base)	\$9,960	\$5,697	\$9,960	57%
Off Cycle Risk Reduction	625	536	625	86%
Sub - T (on & off road)	540	226	540	42%
Police/Flagger Details	860	563	860	65%
Pockets of Poor Performance	120	17	120	14%
Risk Reduction - on cycle	290	278	290	0%
Core Crew (all other activities)	1,555	988	1,555	64%
Total O&M Spending	\$13,950	\$8,304	\$13,950	60%

Attachment C

**Vegetation Management Span and Tree Tracker
For the Nine Months Ending December 31, 2023**

Off Cycle Risk Reduction Tree Removal FYTD 2024			
<u>Feeder</u>	<u>Trees Removed</u>	<u>Substation</u>	<u>District</u>
23F4	22	Farnum Pike	Capital
26W1	24	Woonsocket	Capital
21F2	11	West Cranston	Capital
63F6	57	Hopkins Hill	Coastal
16F2	4	Westerly	Coastal
68F4	3	Kenyon	Coastal
59F1	1	Peacedale	Coastal
68F1	3	Kenyon	Coastal
127W41	19	Nasonville	Capital
54F1	8	Coventry	Coastal
38F1	19	Putnam Pike	Capital
63F3	7	Hopkins Hill	Coastal
34F1	15	Chopmist	Capital
61F1	6	Division St	Coastal
64F1	5	Anthony	Coastal
45F2	28	West Greenville	Capital
26W3	10	Woonsocket	Capital
51F3	22	Bristol	Capital
Total	264		

Attachment C

**Vegetation Management Span and Tree Tracker
For the Nine Months Ending December 31, 2023**

Off Cycle Ash Risk Reduction Tree Removal FYTD 2024			
<u>Feeder</u>	<u>Trees Removed</u>	<u>Substation</u>	<u>District</u>
23F4	22	Farnum Pike	Capital
21F2	11	West Cranston	Capital
63F6	57	Hopkins Hill	Coastal
16F2	4	Westerly	Coastal
68F4	3	Kenyon	Coastal
59F1	1	Peacedale	Coastal
68F1	3	Kenyon	Coastal
127W41	19	Nasonville	Capital
54F1	8	Coventry	Coastal
38F1	19	Putnam Pike	Capital
63F3	7	Hopkins Hill	Coastal
34F1	15	Chopmist	Capital
61F1	6	Division St	Coastal
64F1	5	Anthony	Coastal
45F2	28	West Greenville	Capital
26W3	10	Woonsocket	Capital
51F3	22	Bristol	Capital
Total	240		

On-Circuit Risk Reduction Hazard Trees FYTD 2024				
<u>Feeder</u>	<u>Trees Removed</u>	<u>Ash Trees of Total</u>	<u>Substation</u>	<u>District</u>
46F1	30	0	Old Baptist	Coastal
112W44	65	23	Staples	Capital
126W41	80	14	Washington	Capital
26W1	20	4	Woonsocket	Capital
38F1	8	2	Putnam Pike	Capital
54F1	18	0	Coventry	Coastal
59F4	6	0	Peacedale	Coastal
TOTAL	227	43		

Attachment C

Vegetation Management Span and Tree Tracker For the Nine Months Ending December 31, 2023

On-Circuit Enhanced Clearance Hazard Trees FYTD 2024					
<u>Feeder</u>	<u>Spans Enhanced</u>	<u>Trees Removed</u>	<u>Ash Trees of Total</u>	<u>Substation</u>	<u>District</u>
46F1	0	157	0	Old Baptist	Coastal
46F4	12	72	0	Old Baptist	Capital
54F1	0	14	0	Coventry	Coastal
63F3	59	76	0	Hopkins Hill	Coastal
63F4	6	6	0	Hopkins Hill	Coastal
63F5	1	0	0	Hopkins Hill	Coastal
63F6	16	156	0	Hopkins Hill	Coastal
88F3	159	122	0	Tower Hill	Coastal
112W44	12	23	23	Staples	Capital
36W41	0	1	0	Dexter	Coastal
26W1	0	5	0	Woonsocket	Capital
69F1	9	3	0	Manton	Capital
TOTAL	274	635	23		

Attachment D

**Inspection and Maintenance Program and Other O&M Spending
For the Nine Months Ending December 31, 2023
(\$000)**

	2024 Budget	Actuals	2024 Forecast	% Spend
Opex Related to Capex	\$400	\$301	\$400	75%
Inspections & Repair Related Costs	338	459	550	136%
System Planning & Protection Coordination Study	25	0	0	0%
VVO/CRV Program	400	173	400	43%
Total O&M Spending	\$1,163	\$932	\$1,350	

Attachment E

Project Variance Report For the Nine Months Ending December 31, 2023 (\$000)

Project Description	YTD 2024			Plan Year 2024			Variance Cause
	Budget	Actual	Over / (Under)	Budget	Forecast	Over / (Under)	
Dyer Street Substation (at South Street)	\$0	\$1,861	\$1,861	\$0	\$2,553	\$2,553	See Attachment G for additional details.
Providence Study - Phase 1B	\$12,614	\$11,115	(\$1,499)	\$13,941	\$15,106	\$1,165	See Attachment G for additional details.
Providence Study - Phase 2	\$1,098	\$68	(\$1,030)	\$1,597	\$1,642	\$45	See Attachment G for additional details.
Providence Study - Phase 4	\$6,684	\$6,302	(\$383)	\$8,776	\$8,834	\$58	See Attachment G for additional details.
East Providence Substation	\$1,207	\$720	(\$488)	\$1,330	\$976	(\$354)	See Attachment G for additional details.
Warren Substation	\$1,634	\$1,915	\$281	\$1,969	\$2,381	\$412	See Attachment G for additional details.
Franklin Sq Breaker Replacement	\$437	\$1,179	\$742	\$437	\$1,179	\$742	Work carried over from previous year. Expected to be completed and in service by year end.
Weaver Hill Road Substation	\$983	\$419	(\$564)	\$1,507	\$665	(\$842)	Delays and deferred to FY 2025.
Nasonville Substation	\$1,746	\$1,346	(\$400)	\$1,912	\$2,338	\$426	Forecasted to be over budget due to PS&I reclassification
Nasonville Damage/Failure Project	\$948	\$2,429	\$1,480	\$1,092	\$3,399	\$2,307	Civil construction bids higher than originally estimated, UG D Line scope and design changes required.
3763 Pole Replacements	\$783	\$1,568	\$785	\$783	\$1,568	\$785	Deferred from FY 2023. Should be in service by the end of the year.
	\$28,135	\$28,921	\$786	\$33,344	\$40,642	\$7,298	

Attachment F

**Damage/Failure Detail by Work Type
For the Nine Months Ending December 31, 2023
(\$000)**

Description	D Line Blanket	Property Damage	D Sub Blanket	Specifics	Storms	Total
Monthly Confirming Work	\$5,922	\$0	\$0	\$0	\$0	\$5,922
Nasonville Failure				2,429		2,429
Other	2,290					2,290
Other Specific Projects				10		10
Property Damage		1,101				1,101
Hopkins Hill Transformer Failure				180		180
Storms					3,176	3,176
Substation			606			606
Total	\$8,212	\$1,101	\$606	\$2,619	\$3,176	\$15,716

Please see the Excel file attached to this quarterly report with additional details on Damage/Failure capital spending.

Attachment G
Separately Tracked Large Projects
For the Nine Months Ending December 31, 2023

Southeast Substation

Predates Existing Area Study Process
Current Status – Design and Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	2024 Forecast	Total Project Cost Forecast	2024 Budget	Total Project Cost Forecast
Southeast Substation Project	\$327	\$23,977	\$66	\$23,703

Minimal capital spending is forecasted for the Southeast Substation project during the Plan Year. The Dunnell Park substation portion of this project is complete. The majority of the assets associated with the distribution line project are in service. The engineering for the Pawtucket #1 Substation project is complete and building demolition will begin during the Summer of 2024. This has been pushed from January 2024 due to material delays.

Dyer Street Substation at South Street

Predates Existing Area Study Process

Current Status – Design and Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	2024 Forecast	Total Project Cost Forecast	2024 Budget	Total Project Cost Forecast
Dyer Street Substation Project	\$2,553	\$23,885	\$0	\$21,641

Capital spending of \$2.6 million is forecasted for FY 2024. The distribution line portion of the project is forecasted to be completed and go into service by the end of ISR Plan Fiscal Year 2024. The substation portion of this project went into service in December 2022. Building demolition of the existing Dyer Street Substation is expected to begin in the Summer of 2024.

The total project cost forecast increased due to:

- Supply chain delays adding a year to the project schedule.
- Scope increases due to underground obstructions and a collapsed duct bank.

Providence Study – Admiral Street Substation - Phase 1B
Providence Area Study Implementation Plan 2016 – 2030 (May 2017)
Current Status – Final Engineering/Design and Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	Total Project 2024 Forecast	Cost Forecast	2024 Budget	Total Project Cost Forecast
Providence Study Projects - Phase 1B	\$15,106	\$46,511	\$13,941	\$46,462

During the first nine months of FY 2024, capital spending was \$11.1 million and the Company forecasts spending of \$15.1 million. Schedule delays due to underground obstructions and material delays led to a decrease in the current year’s forecast which will increase in the FY 2025 forecast. Total project spend will include manhole and duct bank construction, cable pulling and restoration, construction of the Admiral Street Substation construction, demolition of the old substation, and Olneyville conversion construction. Construction began in April 2022.

In total, the Company expects capital spending of \$46.5 million for this project compared to the \$45.6 million amount sanctioned.

Providence Study Projects – Phase 2

Providence Area Study Implementation Plan 2016 – 2030 (May 2017)

Current Status – Develop & Sanction

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	Total Project 2024 Forecast	Cost Forecast	2024 Budget	Total Project Cost Forecast
Providence Study Projects - Phase 2	\$1,642	\$25,051	\$1,597	\$25,145

Forecasted capital spending on the Phase 2 projects of the Providence Study is \$1.6 million during the Plan year. The Company is working to obtain permits and easement; however, any delays will push this work into FY 2025. The Company continues with design, engineering, permitting, and initiation of the procurement process. In total, the Company expects capital spending of \$25.0 million on these projects. This work was pushed out a year following the sequencing of predecessor phases of the Providence Study portfolio.

Providence Study – Knightsville Substation - Phase 4

Providence Area Study Implementation Plan 2016 – 2030 (May 2017)

Current Status – Construction

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	2024 Forecast	Total Project Cost Forecast	2024 Budget	Total Project Cost Forecast
Providence Study Projects - Phase 4	\$8,834	\$19,981	\$8,776	\$19,146

Actual capital spending on the Knightsville Substation project during the first nine months of FY 2024 was \$6.3 million. The Company began and will continue with the conversion work during 2024. Additionally, substation civil work will begin. Forecasted capital spend in FY 2024 is \$8.8 million. The Company progressed with additional work from FY 2025 to accommodate the City’s request. In total, the Company expects capital spending of \$20.0 million for the projects in the fourth phase of the Providence Area Study Implementation Plan.

East Providence Substation
East Bay Area Study (August 2015)
Current Status – Design & Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	Total Project Cost Forecast	Total Project Cost Forecast	2024 Budget	Total Project Cost Forecast
East Providence Substation	\$976	\$17,025	\$1,330	\$17,555

During FY 2024, final engineering and procurement will occur. The Company forecasts capital spending equal to its 2024 budget of \$1.0 million. The total project cost forecast will be updated upon completion of the construction grade estimate for the substation by the end of FY 2025. For more information on the status of the estimate, please see the Company’s response to data request PUC 3-9 from Docket No. 23-48-EL, Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan.

Warren Substation

East Bay Area Study (August 2015)

Current Status – Design & Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	Total Project Cost Forecast	Total Project Cost Forecast	2024 Budget	Total Project Cost Forecast
Warren Substation	\$2,381	\$10,172	\$1,969	\$10,171

During FY 2024, the Company forecasts capital spending of \$2.4 million for overhead and substation work. The distribution line work is in construction and the substation work is progressing towards construction. The sub-transmission underground work is still in the permitting process.

Tiverton

Tiverton Area Study 33F6

In the Tiverton area, the DG application for the installation of a new feeder, 33F6, has been approved and the project is progressing. This generation site is expected to be in-service in late 2023. The Tiverton Area Study (September 2021) identified the need to extend the proposed 33F6 circuit to the south for thermal (capacity) limits, contingency response capability, and voltage issues. The Study included a cash flow showing the circuit extension to be in-service in 2028. As a result of cost sharing complications that are expected to occur for this project, the Company plans to include the Tiverton 33F6 extension project in Attachment G of future ISR Plan quarterly reports.

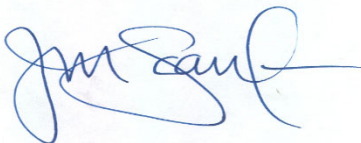
Attachment H
Meter Purchases
For the Nine Months Ending December 31, 2023

Quantity of Meters Purchased		
Type	Description	Quantity
METER	CENTRON - 2S 240V CL200	17,100
METER	CENTRON - 16S CL320	120
INSTRUMENT TRANSFORMER	CUR OUTDOOR 70/1 8.4KV	17
INSTRUMENT TRANSFORMER	CUR OUTDOOR 175/1	3
INSTRUMENT TRANSFORMER	CUR OUTDOOR 300/1	4
INSTRUMENT TRANSFORMER	CUR OUTDOOR 15KV	10
INSTRUMENT TRANSFORMER	CUR OUTDOOR 5/5 15KV	11
INSTRUMENT TRANSFORMER	CUR OUTDOOR 50/5 15KV	9
INSTRUMENT TRANSFORMER	CUR OUTDOOR 75/5 15KV	30
INSTRUMENT TRANSFORMER	CUR OUTDOOR 100/5 15KV	12
INSTRUMENT TRANSFORMER	CUR OUTDOOR 300/5 15KV	12
INSTRUMENT TRANSFORMER	200:5 BASE BUSHINGS	1
INSTRUMENT TRANSFORMER	300:5 BASE BUSHINGS	4
INSTRUMENT TRANSFORMER	400:5 BASE BUSHINGS	240
INSTRUMENT TRANSFORMER	1200:5 BASE BUSHINGS	60
INSTRUMENT TRANSFORMER	2000:5 BASE BUSHINGS	48
INSTRUMENT TRANSFORMER	3000:5 BASE BUSHINGS	48
INSTRUMENT TRANSFORMER	200:5 CAP	210
	TOTAL	17,939

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

February 15, 2024
Date

**Docket No. 22-53-EL – RI Energy’s Electric ISR Plan FY 2024
Service List as of 4/6/2023**

Name/Address	E-mail Distribution	Phone
The Narragansett Electric Company d/b/a Rhode Island Energy Andrew Marcaccio, Esq. 280 Melrose St. Providence, RI 02907 Adam S. Ramos, Esq. Hinckley Allen 100 Westminster Street, Suite 1500 Providence, RI 02903-2319 Stephanie Briggs Patricia C. Easterly Susan M. Toronto Alan LaBarre Ryan Constable Kathy Castro Jeffrey Oliveira	amarcaccio@pplweb.com ;	401-784-4263
	cobrien@pplweb.com ;	
	jscanlon@pplweb.com ;	
	aramos@hinckleyallen.com ;	
	sbriggs@pplweb.com ;	
	NABegnal@RIEnergy.com ;	
	smtoronto@RIEnergy.com ;	
	ATLaBarre@RIEnergy.com ;	
	rconstable@RIEnergy.com ;	
	krcastro@RIEnergy.com ;	
	CJRooney@RIEnergy.com ;	
	joliveira@pplweb.com ;	
wanda.reder@gridxpartners.com ;		
Division of Public Utilities (Division) Gregory Schultz, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903	gSchultz@riag.ri.gov ;	
	Ellen.golde@dpuc.ri.gov ;	
	John.bell@dpuc.ri.gov ;	
	Al.contente@dpuc.ri.gov ;	
	Robert.Bailey@dpuc.ri.gov ;	
	Jon.Hagopian@dpuc.ri.gov ;	
	Margaret.l.hogan@dpuc.ri.gov ;	
	Paul.roberti@dpuc.ri.gov ;	

David Effron Berkshire Consulting 12 Pond Path North Hampton, NH 03862-2243	Djeffron@aol.com ;	603-964-6526
Gregory L. Booth, PLLC 14460 Falls of Neuse Rd. Suite 149-110 Raleigh, N. C. 27614	gboothpe@gmail.com ;	919-441-6440
Linda Kushner L. Kushner Consulting, LLC 514 Daniels St. #254 Raleigh, NC 27605	Lkushner33@gmail.com ;	919-810-1616
Office of Energy Resources Al Vitali, Esq.	Albert.vitali@doa.ri.gov ;	
	nancy.russolino@doa.ri.gov ;	
	Christopher.Kearns@energy.ri.gov ;	
	Shauna.Beland@energy.ri.gov ;	
	William.Owen@energy.ri.gov ;	
	Matthew.Moretta.CTR@energy.ri.gov ;	
Office of Attorney General Nick Vaz, Esq. 150 South Main St. Providence, RI 02903	nvaz@riag.ri.gov ;	401-274-4400 x 2297
	mbedell@riag.ri.gov ;	
File an original & five (5) copies w/: Luly E. Massaro, Commission Clerk Cynthia Wilson-Frias, Esq. Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	Luly.massaro@puc.ri.gov ;	401-780-2107
	Cynthia.WilsonFrias@puc.ri.gov ;	
	Todd.bianco@puc.ri.gov ;	
	Alan.nault@puc.ri.gov ;	
	Emma.rodvien@puc.ri.gov ;	
Matt Sullivan, Green Development LLC	ms@green-ri.com ;	