In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

## PUC 3-1 – Supplemental

#### Request:

The response to PUC 1-1 states: "The first meter is now estimated to be installed in January 2025." Please provide an estimate of how many meters the Company is forecasting it will install in January, February, and March of 2025.

#### Original Response:

As per the ISR timeline, the Company is forecasting it will install the following meters:

Date	Monthly exchanges			
January-25	465			
February-25	7,440			
March-25	14,880			

# Supplemental Response:

Through this response, Rhode Island Energy is addressing updates to the Advanced Metering Functionality ("AMF") implementation schedule.

The primary reason for the AMF updates is the schedule shift of the final Transition Services Agreement ("TSA") exit date from National Grid USA's systems to PPL's systems moving from May 2024 to August 2024. The shift of the TSA exit date results in a shift of AMF timing and approach. Along with a needed update in the systems functionality release approach and schedule, meter deployment start will move from January 2025 to March 2025. There is no change to the timing of pre-sweeps and network deployment.

The secondary reason for the AMF updates is a result of finalizing or near finalization of vendor contracts, resulting in firm cost estimates. There is no change to the overall AMF program cost, but the update does reduce FY 2025 forecasted spend and increases FY 2026 and FY 2027.

As per the ISR timeline, the Company is forecasting it will install the following meters in January, February, and March of 2025.

Date	Monuny Exchanges
January-25	0
February-25	0
March-25	70

Monthly Evolunges

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests

Issued on January 12, 2024

## PUC 3-1 – Supplemental, page 2

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

## PUC 3-2 – Supplemental

# Request:

Referring to bates page 89, Book 2, of the Company's Business Case filing in Docket 22-49-EL, and the paragraph regarding "Electric Meter Deployment," which states that "Electric Meter Deployment' represents the installation of new AMF meters which is preceded by a 'Solution Validation' phase," what is the Company's forecast for the months in which:

- a. the Company will commence and complete the "Solution Validation Phase"; and
- b. the referenced "Electric Meter Deployment" commences.

#### Original Response:

As per the ISR timeline for the AMF project:

- a. The Solution Validation Phase is forecasted to commence in January 2025 and be completed in March 2025, with approximately 23,000 meters installed by that time.
- b. Electric Meter Deployment is forecasted to commence April 2025, following the Solution Validation Phase.

#### Supplemental Response:

Through this response, Rhode Island Energy is addressing updates to the Advanced Metering Functionality ("AMF") implementation schedule.

The primary reason for the AMF updates is the schedule shift of the final Transition Services Agreement ("TSA") exit date from National Grid USA's systems to PPL's systems moving from May 2024 to August 2024. The shift of the TSA exit date results in a shift of AMF timing and approach. Along with a needed update in the systems functionality release approach and schedule, meter deployment start will move from January 2025 to March 2025. There is no change to the timing of pre-sweeps and network deployment.

The secondary reason for the AMF updates is a result of finalizing or near finalization of vendor contracts, resulting in firm cost estimates. There is no change to the overall AMF program cost, but the update does reduce FY 2025 forecasted spend and increases FY 2026 and FY 2027.

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

## PUC 3-2 – Supplemental, page 2

As per the ISR updated timeline for the AMF project:

- a. The Solution Validation Phase is forecasted to commence in March 2025 and be completed by May 2025.
- b. Electric Meter Deployment is forecasted to commence June 2025, following the Solution Validation Phase.

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

## PUC 3-3 – Supplemental

#### Request:

Referring to Figure 1, "AMF Project Timeline," on bates page 87, Book 2, of the Company's Business Case filing in Docket 22-49-EL, please provide an updated version of Figure 1.

## Original Response:

Please see below the updated Figure 1, "AMF Project Timeline" from the Company's AMF Business Case filing in Docket No. 22-49-EL.

The updated timeline reflects an approximate three-month shift in the systems and deployment schedule from what the Company originally had proposed in the AMF Business Case. The Solution Validation Phase is now planned to commence in January 2025 (first quarter) with full electric meter deployment commencing in April 2025 (second quarter). This shift in timing reflects the timing of the Public Utilities Commission's ("Commission") approval in Docket No. 22-49-EL. The Company based the original timeline in the AMF Business Case on an anticipated regulatory approval by June 2023; however, the Commission issued its decision in September 2023. Thus, the AMF Project Timeline, in Figure 1, which also includes Pre-sweep Verifications and Network Deployment, shifted by a commensurate amount of time. The updated Figure 1 does not include the gray box for "Future AMF Functionality" because those functionalities were identified in the AMF Business Case as Group 6 functionalities. Per the Commission's Open Meeting Motions and Votes, Group 6 functionalities were not included within the scope of the Commission's authorization, except for the advancement of load disaggregation & Waveform Analytics and Grid Edge Computing using Sense for the Home Area Network as discussed in the Company's response to RR-11 in Docket No. 22-49-EL. Those functionalities are now included in the "Added AMF Functionality" box in the updated Figure 1.

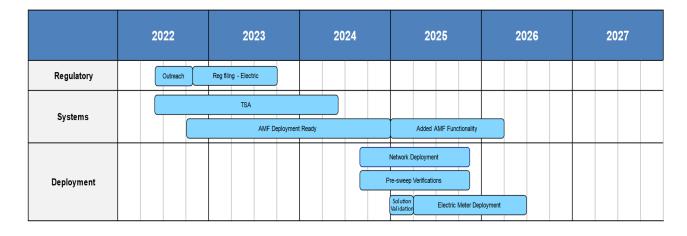
In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

PUC 3-3, page 2

# **Updated Figure 1**

# **AMF Timeline**

Meter Deployment Start Date of January 2025





Business Use 2023 PPL Corporation

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

## PUC 3-3 – Supplemental

# Supplemental Response:

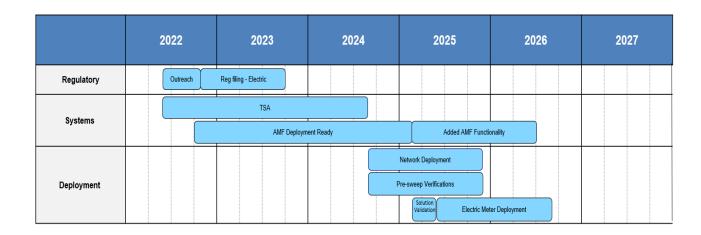
Through this response, Rhode Island Energy is addressing updates to the Advanced Metering Functionality ("AMF") implementation schedule.

The primary reason for the AMF updates is the schedule shift of the final Transition Services Agreement ("TSA") exit date from National Grid USA's systems to PPL's systems moving from May 2024 to August 2024. The shift of the TSA exit date results in a shift of AMF timing and approach. Along with a needed update in the systems functionality release approach and schedule, meter deployment start will move from January 2025 to March 2025. There is no change to the timing of pre-sweeps and network deployment.

The secondary reason for the AMF updates is a result of finalizing or near finalization of vendor contracts, resulting in firm cost estimates. There is no change to the overall AMF program cost, but the update does reduce FY 2025 forecasted spend and increases FY 2026 and FY 2027.

#### Please see below:

- Updated "AMF Project Timeline" from the Company's AMF Business Case filing in Docket No. 22-49-EL, Figure 8.1, located in Book 2 of 3 on Bates page 87; and
- An added chart comparing the updated timing of AMF functionalities from the Company's AMF Business Case filing in Docket No. 22-49-EL, Figure 6.1, located in Book 2 of 3 on Bates page 70.



In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

# PUC 3-3 – Supplemental, page 2

AMF Functionality	PUC Approved Plan	<b>Updated Plan</b>
Deployment Exchange Management Solution	May-24	August-24
Remote Meter Configuration & Investigation	May-24	August-24
AMO Data Driven Operations	May-24	August-24
Remote (AMF) Meter Reading & Billing	September-24	February-25
Alerts & Alarms: High Temp	September-24	February-25
CP: Customer Portal	September-24	February-25
Remote Electric Connect & Disconnect	March-25	February-25
Proactive Outage Management (Last Gasp / Power-up)	March-25	June-25
Customer Outage Alerts	March-25	June-25
CP: Bill Alerts	March-25	June-25
CP: Green Button Connect	September-25	January-26
CP: Near Real-Time Customer Data Access	September-25	January-26
CP: In-Home Device Support	September-25	January-26
Load Disaggregation & Waveform Analytics	Group 6 (future)	January 26
Grid Edge Computing (writing applications to the meter)	Group 6 (future)	January-26
ADMS: Voltage Conservation (Volt-Var Optimization)	March-26	June-26
ADMS: Voltage Automated Notification (Sag/Swell)	March-26	June-26
ADMS: On Demand Voltage Measurement (to ADMS)	March-26	June-26
Network Model Analytics	March-26	June-26
Theft Detection Analytics	March-26	June-26
ADMS-DER: Monitor & Management	March-26	June-26
TVR Foundational	n/a	n/a
CP: Solar Marketplace	n/a	n/a
CP: Carbon Footprint Calculator	n/a	n/a
CP: C&I and Multi-Family Portfolio View	n/a	n/a
CP: Streamlined Energy Efficiency & Demand Response	n/a	n/a
Program Signup		
Enable TVR	n/a	n/a

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

#### PUC 3-3 – Supplemental, page 3

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

## PUC 3-4 – Supplemental

#### Request:

Referring to the breakdown of cost categories reflected in Attachment PUC 1-2, please breakdown the cost incurrence associated with these categories more granularly to match the categories of costs that were reflected in Attachments PUC 1-11, 1-12, and 1-13 that were provided in Docket 23-49-EL which forecasted capital costs related to software, network, and meters, respectively.

# Original Response:

Please see Attachment PUC 3-4-1, Attachment PUC 3-4-2, and Attachment PUC 3-4-3 for a breakdown of the software, network, and meter costs, similar to Attachments PUC 1-11, 1-12, and 1-13, respectively, that the Company provided in Docket No. 22-49-EL.

The Company prepared Attachments PUC 1-11, 1-12, and 1-13 in Docket No. 22-49-EL based on the BCA Model it had prepared at that time, which included estimates by individual line items. The Company prepared those schedules before it negotiated contracts with vendors to perform the specific services that made up those estimated costs. The Company prepared its response to PUC 1-2 and Attachment PUC 1-2 to reflect the costs it expects to incur through March 2025 (i.e., ISR Fiscal Year 2025) under the contracts it currently is negotiating or has now negotiated and signed with third-party vendors. These contracts will be provided when finalized which is estimated to be late February 2024. Those costs reflect a milestone payment structure that does not break out the costs associated with each milestone payment by the individual line items reflected in the BCA Model.

The BCA model was not formatted to reflect a milestone payment structure. The milestones included in these negotiated contracts are based on estimated services provided and would cover several of the individual line items shown in the format for Attachments PUC 1-11, 1-12, and 1-13. Milestones payments are due upon completion of the work specified for each milestone. The "Notes" column in each attachment explains where the Company made an estimate for the amount to include in that cost category associated with the milestone achievements that correspond to the payments the Company will make. Estimated milestones for meter installations (external vendor) based on sector completion do not occur until ISR FY 2026 as per the contract currently being negotiated with our external vendor.

Additionally, in preparing this response, the Company added some additional line items to Attachment PUC 3-4-1 and Attachment PUC 3-4-2 from those that were reflected in Attachment PUC 1-11 and Attachment PUC 1-12 to reflect additional cost components associated with the work being performed under the contracts.

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## PUC 3-4 – Supplemental, page 2

In Attachment PUC 3-4-1, which corresponds to Attachment PUC 1-11 from Docket No. 22-49-EL, the Company added: (i) an additional line item each for Cybersecurity, Customer Portal, Outage Alerts, Green Button, Bill Alerts, and ADMS &OMS to distinguish internal from external costs in these categories, and (ii) line items for the Customer Home Area Network and Load Disaggregation App (HAN) to reflect the acceleration of this investment as a result of the Commission's AMF approval order, and (iii) a line item for AFUDC to reflect the allowance for funds used during construction on the software costs up until the start of meter deployment.

In Attachment PUC 3-4-2, which corresponds to Attachment PUC 1-12 from Docket No. 22-49-EL, the Company added two additional Gateway line items – one to reflect the costs for the Service Disconnect Switch and the other to create two line items for (Gateways) Pole (Equipment) to distinguish between steel poles and wood poles.

In Attachment PUC 3-4-3, which corresponds to Attachment PUC 1-13 from Docket No. 22-49-EL, all the cost line items match up, but the Company did not include the separate chart that appeared on the fourth page of Attachment PUC 1-13 from Docket No. 22-49-EL because it did not correspond to the costs being reported in Attachment PUC 1-2 in this docket.

Finally, the Company also is providing Attachment PUC 3-4-4, which reflects Program Management Office costs that do not otherwise correspond to the cost categories included in Attachments PUC 1-11, 1-12, and 1-13 in Docket No. 22-49-EL.

The Company has provided the information requested in this format to comply with this request from the Commission. The Company notes, however, that it requires significant time and effort to create the estimated costs in these specific categories from the milestone payments the Company is making under its contracts with third-party vendors, and the estimates are not exact costs, but instead are the Company's best attempt to disaggregate the costs associated with those payments. This format is not the format in which the Company is tracking costs internally, and the Company proposes to provide the ongoing cost incurrence and estimate information in future data requests in this docket and in future proceedings in the format in which it is tracking costs on this project to: (i) provide the Commission with the data it seeks to oversee the cost incurrence on the project as compared to its approval of the AMF project, while (ii) reducing the administrative burden to provide the requested information.

In Re: Proposed FY 2025 Electric Infrastructure, Safety and Reliability Plan Responses to the Commission's Third Set of Data Requests Issued on January 12, 2024

# PUC 3-4 – Supplemental, page 3

# Supplemental Response:

Through this response, Rhode Island Energy is addressing updates to the Advanced Metering Functionality ("AMF") implementation schedule.

The primary reason for the AMF updates is the schedule shift of the final Transition Services Agreement ("TSA") exit date from National Grid USA's systems to PPL's systems moving from May 2024 to August 2024. The shift of the TSA exit date results in a shift of AMF timing and approach. Along with a needed update in the systems functionality release approach and schedule, meter deployment start will move from January 2025 to March 2025. There is no change to the timing of pre-sweeps and network deployment.

The secondary reason for the AMF updates is a result of finalizing or near finalization of vendor contracts, resulting in firm cost estimates. There is no change to the overall AMF program cost, but the update does reduce FY 2025 forecasted spend and increases FY 2026 and FY 2027.

Please see Attachment PUC 3-4-1 - Supplemental for software, Attachment PUC 3-4-2 - Supplemental for network, and Attachment PUC 3-4-3 - Supplemental for meter and Attachment PUC 3-4-4 - Supplemental for program management costs for costs through March 2025. Total is equal to \$50,723,186.

FY24

FY25

#### The Narragansett Electric Company d/b/a Rhode Island Energy AMF - Intangible Software Costs

Attachment 3-4-1 supplemental

	rnal technical oversight resource costs
	rnal tachnical avarsight resource agests
0 000 · 1 1 2	that technical oversight resource costs
	aS AGA implementation services
	rnal, data archival for meter data - estimated
4 03.Systems Analytics Advanced Analytics Advanced Analytics Advanced Analytics (Theft Analytics) 303 \$	
	tem integrator services milestone achievement - estimated
	re CSS-AMF technical services phases 1 & 2
7 03.Systems CSS CSS CSS CSS Customer Service Software - internal 303 \$ \$384,800 internal labor	
8 03.Systems Deployment Exchange Mgt. Deployment Exchange Management (Electric) Deply, xchg. Mgt. Deployment Exchange Management - internal 303 \$ \$96,200 internal costs	
	tem integrator services milestone achievement - estimated
	aS implementation services
	tem integrator services milestone achievement - estimated
12 03.Systems Headend Headend Upgrade Headend E2E System Testing (Headend Upgrade) 303 \$ - \$ N/A, post projec	st project
13 03.Systems Headend WiSun WiSun WiSun Software as a Service (SaaS) - WiSun (Implement) 303 \$ - \$ - N/A, included in	luded in L+G SaaS implementation services Headend
14 03.Systems MDMS MDMS MDMS MDMS SOW - Vendor - MDMS (Implement) 303 \$319,589 \$888,085 L&G SaaS impl	aS implementation services
15 03.Systems MDMS MDMS MDMS MDMS SI Vendor - MDMS (Implement) 303 \$ - \$284,152 TCS system inte	tem integrator services milestone achievement - estimated
16 03.Systems MDMS MDMS Upgrade MDMS E2E System Testing (MDMS Upgrade) 303 \$ - \$ - N/A, post projec	st project
17 03.Systems Middleware Middleware Middleware Middleware (Implement) 303 5 \$340,080 PPL Internal, co	rnal, connection of interfaces
	tem integrator services milestone achievement - estimated
19 03 Systems CyberSecurity CyberSecurity CyberSecurity CyberSecurity (Implement) 303 \$ - \$253,500 External vendor	vendor for cyber and penetration testing
20 03.Systems CyberSecurity CyberSecurity CyberSecurity CyberSecurity Internal 303 \$ - \$109,200 PPL Internal	rnal
21 03 Systems CyberSecurity CyberSecurity CyberSecurity SI Vendor - CyberSecurity (Implement) 303 \$ - \$431,778 TCS system inte	tem integrator services milestone achievement - estimated
22 03.Systems Customer Engagement Customer Portal Customer Portal Customer Portal Sustainer Portal Customer Portal Sustainer	costs
23 03 Systems Customer Engagement Customer Portal Customer Portal Customer Portal Internal 303 \$ - \$592,000 PPL Internal - ee	ernal - estimated
24 03.Systems Customer Engagement Outage Alerts Outage Alerts Customer Outage Alerts 303	
25 03.Systems Customer Engagement Outage Alerts Outage Alerts Customer Outage Alerts - Internal 303 - PPL Internal	rnal
26 03 Systems Customer Engagement Green Button Green G	
27 03.Systems Customer Engagement Green Button Green Button Green Button Green Button Connect - Internal	rnal
28 03 Systems Customer Engagement Bill Alerts Bill Alerts Bill Alerts Bill Alerts 303 5 - 5 -	
29 03 Systems Customer Engagement Bill Alerts Bill Alerts Bill Alerts Hill Alerts Bill Alerts - Internal 303 S - PPL Internal	rnal
30 03.Systems Customer Engagement DG Portal DG Portal Solar Marketplace 303 5 out of scope	ope
31 03 Systems Customer Engagement Carbon Footprint Calc. Carbon Footprint Calc Carbon Footprint Calculator 303 \$ - \$ - out of scope	ope
32 03 Systems Customer Engagement C&I and Multi-Family Port. View Portfolio View C&I and Multi-Family Portfolio View 303 \$ - \$ - out of scope	*
33 03 Systems Customer Engagement Time Varying Rates (TVR) TVR Time Varying Rates (TVR) - Full Implementation 303 \$ - \$ - out of scope	
34 03 Systems ADMS & OMS 303 \$ - \$ - Vendor costs	
35 03 Systems ADMS & OMS ADMS & OMS ADMS & OMS ADMS & OMS - Internal 303 - PPL Internal	
36 03 Systems Grid Edge & Load Dissag Customer Load Dissagregation App (HAN) HAN APP Customer Load Dissagregation App Vendor (HAN Solution) 303 Vendor costs	
37 03.Systems Grid Edge & Load Dissag. Customer Load Dissagregation App (HAN) HAN APP Customer Load Dissagregation App Vendor (HAN Solution) - Internal 303 \$ - PPL Internal	rnal
	ce for Funds Using During Construction - on the
	costs up until 1st meter is installed
57 055) stella 11 050 1	costs up until 1st motor is instance
38	
39 \$2,403.766 \$11,487,033	
40	
41 \$13,890,799	

The Narragansett Electric Company d/b/a Rhode Island Energy RIPUC Docket No. 23-48-EL Proposed FY 2025 Electric ISR Plan Attachment PUC 3-4-2 - Supplemental Page 1 of 1

FY24

FY25

# The Narragansett Electric Company d/b/a Rhode Island Energy AMF -Network Costs

Attachment 3-4-2 supplemental

	April 2023	April 2024	
Row Cost FERC		to	
	March 2024		NOTES
No. Category 1 Cost Category 2 Cost Category 4 Full Description Act 19	March 2024	March 2025	NOTES
1 02.Network Project Management Vendor /External Labor Installation Vendor RF Network Installation Vendor Project Management Oversight 397 \$		\$ 350,000	L&G installation services milestone achievement - estimated
1 OZ. CETOK TO DECEMBER TO THE THEORY DECEMBER AND THE THEORY DECEMBER TO THE THEORY DECEMBER TO THE THEORY DECEMBER.		Ψ 330,000	L&G installation services milestone achieve - 1X network
2 02.Network Project Management Vendor /External Labor Network Gateway RF Network Installation Vendor Project Management Oversight 397		©	license cost
3 02.Network Hardware Gateway Network Gateway (High Capacity Gateways) Hardware - High Capacity Gateway 397 S		\$ 247.170	L&G network hardware
5 OZINCIWOK Handware Gareway Activities Gareway (Ingit capacity Gareways) Handware - Ingit capacity Activities Gareway (Ingit capacity Gareways) Handware - Ingit capacity Activities Gareway (Ingit capacity Gareways) Handware - Ingit capacity Activities Gareway (Ingit capacity Gareways) Handware - Ingit capacity Activities Gareway (Ingit capacity Gareways) Handware - Ingit capacity Gareways) Handware - Ingit capacity Gareways (Ingit capacity Gareways) Handware - I			N/A - fully integrated w, and part of unit price, for network
4 02.Network Hardware Gateway Modem (High Capacity Gateways) Hardware - Cellular Backhaul Modem 397	- !		gateways
5 02.Network Hardware Gateway Telecom Cabinet (High Capacity Gateways) Hardware - Telecom Cabinet 397 \$			RIE purchased hardware, cabinets
6 02.Network Hardware Gateway Poles Service Disconnect Switch 397			RIE purchased hardware, disconnect switch
7 02.Network Hardware Gateway Poles (Gateways) Pole (Equipment) - Steel 397			RIE purchased hardware, steel poles
8 02.Network Hardware Gateway Poles (Gateways) Pole (Equipment) - Wood 397			RIE purchased hardware, wood poles
9 02.Network Hardware Gateway Network Gateway (Standard Capacity Gateways) Hardware - Network Gateway 397 \$			L&G network hardware
10 02.Network Hardware Router Routers (Routers) Hardware - Routers 397 \$			L&G network hardware
11 02.Network Hardware Transformers Transformers Additional Transformers required - material 397 \$			RIE purchased hardware, transformers
12 02.Network Hardware Gateway Network Testing Network Development and Testing - Routers, Gateways, Antennas, Modem 397 \$			Antennas, modem, routers for test environment
12 desired faithful Calenty feetfood resing feetfood by the feetfood feetfood feetfood food feetfood f			Ancillary hardware for testing: sprectrum analyzer, cables,
13 02.Network Hardware Ancillary Equipment Network Testing Network Development and Testing - Equipment 397 \$			Gridstream radio
14 02.Network Installs Gateway Site Installations (High Capacity Gateways) Site Installation (pole, antennas, cabinets, etc) 397 \$			L&G installation services milestone achievement - estimated
15 O2.Network Installs Site Engineering Site Engineering Permits (High Capacity Gateways) Site Engineering design (power, permits, FAA, etc) 397 S			L&G installation services milestone achievement - estimated
16 02.Network Installs Gateway Network Gateway (Standard Capacity Gateways) Installation - Network Gateway 397 \$			L&G installation services milestone achievement - estimated
17 02.Network Installs Router Routers (Routers) Installation - Routers 397 S			L&G installation services milestone achievement - estimated
18 02.Network Installs Transformers Transformers Additional Transformers required - Install 397			L&G installation services milestone achievement - estimated
19 02.Network Installs Gateway Network Testing Network Development and Testing - Installation 397 S			L&G installation services milestone achievement - estimated
20 02.Network Hardware Gateway Network Gateway (Replacements) Network equipment replacement - Hardware - Gateways 397 \$			Post project - NA
21 02.Network Hardware Router Routers (Replacements) Network equipment replacement - Hardware - Routers 397 \$			Post project - NA
22 02.Network Hardware Gateway 4G-2-5G Uperade Hardware - Cellular Backhaul Modems 4G-2-5G (High Capacity Gateway locations) 397 \$			Post project - NA
23 02.Network Hardware Gateway 4G-2-5G Upgrade Hardware - Network Gateway 4G-2-5G (Standard Capacity locations) 397			Post project - NA
24 02.Network Installs Gateway Network Gateway (Replacements) Network equipment replacement - Install - Gateways 397 \$			Post project - NA
25 02.Network Installs Router Routers (Replacements) Network equipment replacement - Install - Routers 397 \$			Post project - NA
26 02.Network Installs Gateway 4G-2-5G Upgrade Installation - Cellular Backhaul Modems 4G-2-5G 397 \$			Post project - NA
27 O2.Network Installs Gateway 4G-2-5G Upgrade Installation - Network Gateway 4G-2-5G 397 \$	- :		Post project - NA
28 04.Program Project Management Vendor /External Labor PMO Vendor Labor PMO Vendor - AMO Network lead 397 \$	- :		captured in Program
29 04.Program Project Management Vendor /External Labor PMO Vendor Labor PMO Vendor - AMO Network Analyst 397 \$			captured in Program
30			
31	· -	\$ 4,478,906	

The Narragansett Electric Company d/b/a Rhode Island Energy RIPUC Docket No. 23-48-EL Proposed FY 2025 Electric ISR Plan Attachment PUC 3-4-3 - Supplemental Page 1 of 1

#### The Narragansett Electric Company d/b/a Rhode Island Energy AMF -Meter Costs

Attachment 3-4-3 supplemental

		11					FY24	FY25	
							April 2023	April 2024	
Roy	Cost					FERC	to	to	
No.		Cost Category 2	Cost Category_3	Cost Category_4	Full Description	Account	March 2024	March 2025	NOTES
1	01.Meter	Project Management	Vendor /External Labor	Installation Vendor	Meter Installation Vendor Project Management Oversight	370	\$ - \$	643,275	Meter installation services milestone achievement - estimated
2	01.Meter	Hardware	Ancillary Equipment	Antennas	External Antenna Cost (Residential)	370	\$ - \$	26,868	L&G contract - network
3	01.Meter	Hardware	Ancillary Equipment	Antennas	External Antenna Cost (Commercial)	370	\$ - \$	2,985	L&G contract - network
4	01.Meter	Hardware	Meters	Meters	Meter Development and Testing - Meters	370	\$ - \$	-	N/A
5	01.Meter	Pre-Sweeps	Meter Base	Meter Bases	Total Electric Meter Pre-Sweeps for deployment	370	\$ - \$	2,165,316	pre sweeps - milestone axchievement - estimated
6	01.Meter	Installs	QA/QC	Testing Vendor	Shipment Sample Meter Testing (Residential & Commercial)	370	\$ - \$	12,490	sample meter testing per ANSI standard
7	01.Meter	Installs	Facility	Crossdock	Deployment Center, Facility cost (Crossdock)	370	\$ - \$	454,559	Meter installation services milestone achievement - estimated
8	01.Meter	Installs	Facility	Call Center	Deployment Call Center & Notification Letters	370	\$ - \$	546,891	Meter installation services milestone achievement - estimated
9	01.Meter	Installs	Meters	Resid. Meters	Deployment - Automated RF (AMF) Meter Install Cost - Residential	370	\$ - \$		Meter installation services milestone achievement
10	01.Meter	Installs	Meters	C&I Meters	Deployment - Automated RF (AMF) Meter Install Cost - Commercial	370	\$ - \$		Meter installation services milestone achievement
11	01.Meter	Installs	Meters	Resid. Antennas	Deployment - External Antenna Electric Meter Install Cost - Residential	370	\$ - \$		based on unit cost to install external antenna w/ meter install
12	01.Meter	Installs	Meters	C&I Antennas	Deployment - External Antenna Electric Meter Install Cost - Commercial	370	\$ - 9		based on unit cost to install external antenna w/ meter install
13	04.Program	Project Management	PPL Labor	PPL Labor	PPL PMO Oversight - AMF Implementation PMO	370	\$ - 9		internal install costs, RIE - CMS install costs
14	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Project Manager / Deployment Lead	370	\$ - 5		shown in Program
15	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Metrics, Measures, and Financial Tracking	370	\$ - 5		shown in Program
16	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Meter Inventory Management Analyst	370	\$ - 9		shown in Program
17	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Deployment Exception Coordinator(s)	370	\$ - \$		shown in Program
18	01.Meter	Hardware	Meters	Meters (Growth)	Growth - Automated RF (AMF) Meter Cost (Residential)	370	\$ - \$		Post project - NA
19	01.Meter	Hardware	Meters	Meters (Growth)	Growth - Automated RF (AMF) Meter Cost (Commercial)	370	\$ - \$		Post project - NA
20	01.Meter	Hardware	Meters	Meters (Replacements)	Meter Replacements - Automated RF (AMF) Meter Cost (Residential)	370	\$ - \$		Post project - NA
21	01.Meter	Hardware	Meters	Meters (Replacements)	Meter Replacements - Automated RF (AMF) Meter Cost (Commercial)	370	\$ - \$		Post project - NA
22	01.Meter	Hardware	Meters	Meters	Automated RF (AMF) Meter Cost (Residential)	370	\$ - \$	22,090,170	Hardware - residential meters
23	01.Meter	Hardware	Meters	Meters	Automated RF (AMF) Meter Cost (Commercial)	370	\$ - \$	2,782,033	Hardware - commercial meters
24	01.Meter	Hardware	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Residential)	370	\$ - \$		
25	01.Meter	Hardware	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Commercial)	370	\$ - \$		
26						-			
27						L	\$0 \$	28,724,587	

The Narragansett Electric Company d/b/a Rhode Island Energy RIPUC Docket No. 23-48-EL Proposed FY 2025 Electric ISR Plan Attachment PUC 3-4-4 - Supplemental Page 1 of 1

#### The Narragansett Electric Company d/b/a Rhode Island Energy AMF - PMO Program Costs

Attachment 3-4-4 supplemental

						F	Y24	FY25	
						April 2	2023	April 2024	
Row	Cost				FERC		to	to	
No.	Category_1	Cost Category_3	Cost Category_4	Description	Account	March 2	2024	March 2025	NOTES
									Project oversight- outside consultants - will be allocated to meters, network, and software. External vendor labor personnel that will
1	04.Program	Vendor /External Labor	PMO Vendor Labor	PMO External		\$	-	\$ 1,978,054	directly support the AMF Program.
2	04.Program	PMO/Internal Labor	PMO Internal Labor	PMO Internal		\$ 126,	988	\$ 1,523,851	Project oversight- internal - will be allocated to meters, network, and software. Includes dedicated PPL and Rhode Island Energy internal labor directly responsible for implementing the AMF Program.

\$ 126,988 | \$ 3,501,905