

PUC 4-1 – Supplemental  
**Advanced Metering Functionality Revenue Requirement**

Request:

PUC 2-2 asked for schedules similar to Attachment 7-10-2 from Docket 22-49-EL. The response, however, oversimplified the schedule with far fewer itemized data than appears in the three schedules pertaining to Software Costs, Network Costs, and Meters in 7-10-2. Please provide a new schedule which contains all the original components that were contained in the Columns labeled “Cost Category 3,” “Cost Category 4,” and “Full Description” that were in 7-10-2. In each row, indicate the total amount forecasted/spent for FY 2024, FY 2025, FY 2026, FY 2027, and the Total.

Original Response:

See Attachment PUC 4-1-1 for the detailed schedule for Meters, Attachment PUC 4-1-2 for the detailed schedule for Network Costs, Attachment PUC 4-1-3 for the detailed schedule for Software Costs, and Attachment PUC 4-1-4 for the detailed schedule for Program costs.

The totals are as follows:

	ISR year 2024	ISR year 2025	ISR year 2026	ISR year 2027	ISR years 2024-2027
	April 2023 to March 2024	April 2024 to March 2025	April 2025 to March 2026	April 2026 to March 2027	TOTAL COSTS
<b>Network</b>	\$0	\$4,934,693	\$6,974,784	\$2,045,744	\$13,955,221
<b>Meters</b>	\$0	\$28,655,472	\$62,931,901	\$1,999,920	\$93,587,293
<b>Software</b>	\$4,151,804	\$14,355,565	\$14,160,280	\$3,560,082	\$36,227,732
<b>Program</b>	\$944,730	\$3,778,921	\$3,778,920	\$944,730	\$9,447,301
	<b>\$5,096,534</b>	<b>\$51,724,651</b>	<b>\$87,845,885</b>	<b>\$8,550,476</b>	<b>\$153,217,547</b>

As noted in PUC 3-4, 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.

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**Advanced Metering Functionality Revenue Requirement**

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.

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 4-1-3 - Supplemental for the detailed schedule for Meter costs, Attachment PUC 4-1-2 - Supplemental for the detailed schedule for Network costs, Attachment PUC 4-1-1 - Supplemental for the detailed schedule for Software costs, and Attachment PUC 4-1-4 - Supplemental for the detailed schedule for Program costs.

Additionally, please see Attachment PUC 9-19-5, which is an updated Section 5, Attachment 3, which was originally filed as part of the Proposed FY 2025 Electric Infrastructure, Safety, and Reliability Plan Filing (starting on Bates 277). The revised revenue requirement reflects the updated forecasted FY 2025 capital in service for the reasons described above, as well as reflecting 1) the corrected book depreciation rate for network investments as described in the response to PUC 2-3 and 2) the removal of MDMS costs from software rather than meters as was described in the response to PUC 4-5. On the attachment, the Company has highlighted the cells that have input changes from the originally filed revenue requirement. The Company did not highlight all of the flow through cells that changed.

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

Attachment 4-1-1 supplemental

Row No.	Cost Category 1	Cost Category 2	Cost Category 3	Cost Category 4	Full Description	FERC Account	FY24	FY25	FY26	FY27	TOTAL COSTS	NOTES
							April 2023 to March 2024	April 2024 to March 2025	April 2025 to March 2026	April 2026 to March 2027		
1	04.Program	Project Management	PPL Labor	PPL Labor	PPL PMO Oversight (IT) - AMF Implementation PMO	303	\$ 280,006	\$ 1,120,022	\$ 1,120,022	\$ 280,006	\$ 2,800,056	PPL internal technical oversight resources
2	03.Systems	Analytics	Network Model Analytics	NMA/AGA	Network Model Analytics / AGA	303	\$ -	\$ -	\$ -	\$ 391,538	\$ 391,538	L&G SaaS AGA implementation services
3	03.Systems	Analytics	Data Lake	Data Lake	Data Lake - Internal	303	\$ -	\$ 288,600	\$ 288,600	\$ -	\$ 577,200	PPL internal, data archival for meter data
4	03.Systems	Analytics	Advanced Analytics	Adv.Analytics	Advanced Analytics (Theft Analytics)	303	\$ -	\$ -	\$ -	\$ -	\$ -	Covered as part of row 2, Network Model Analytics
5	03.Systems	Analytics	Data Lake	Data Lake	Data Lake - SI VENDOR	303	\$ -	\$ 244,170	\$ 486,749	\$ 431,881	\$ 1,162,800	TCS system integrator services milestone achievement - estimated
6	03.Systems	CSS	CSS	CSS	Customer Service Software	303	\$ 741,064	\$ 1,803,284	\$ 360,483	\$ -	\$ 2,904,831	Accenture CSS-AMF technical services phases 1 & 2
7	03.Systems	CSS	CSS	CSS	Customer Service Software - internal	303	\$ -	\$ 384,800	\$ 192,400	\$ -	\$ 577,200	internal labor
8	03.Systems	Deployment Exchange Mgt.	Deployment Exchange Mgt.	Deplymt. Exchg. Mgt.	Deployment Exchange Management - internal	303	\$ -	\$ 96,200	\$ -	\$ -	\$ 96,200	internal labor
9	03.Systems	Deployment Exchange Mgt.	Deployment Exchange Mgt.	Deplymt. Exchg. Mgt.	Deployment Work Management - SI Vendor	303	\$ -	\$ 761,940	\$ 84,660	\$ -	\$ 846,600	TCS system integrator services milestone achievement - estimated
10	03.Systems	Headend	Headend	Headend	SOW - Vendor - Headend (Implement)	303	\$ 696,053	\$ 1,934,216	\$ 1,934,217	\$ 2,149,436	\$ 6,713,923	L&G SaaS implementation services
11	03.Systems	Headend	Headend	Headend	SI Vendor - Headend (Implement)	303	\$ -	\$ 859,276	\$ 1,340,694	\$ 1,002,830	\$ 3,202,800	TCS system integrator services milestone achievement - estimated
12	03.Systems	Headend	Headend Upgrade	Headend	E2E System Testing (Headend Upgrade)	303	\$ -	\$ -	\$ -	\$ -	\$ -	N/A, post project
13	03.Systems	Headend	WiSun	WiSun	Software as a Service (SaaS) - WiSun (Implement)	303	\$ -	\$ -	\$ -	\$ -	\$ -	N/A, included in L+G SaaS implementation services Headend
14	03.Systems	MDMS	MDMS	MDMS	SOW - Vendor - MDMS (Implement)	303	\$ 319,589	\$ 888,085	\$ 888,085	\$ 986,902	\$ 3,082,660	L&G SaaS implementation services
15	03.Systems	MDMS	MDMS	MDMS	SI Vendor - MDMS (Implement)	303	\$ -	\$ 284,152	\$ 542,255	\$ 468,992	\$ 1,295,400	TCS system integrator services milestone achievement - estimated
16	03.Systems	MDMS	MDMS Upgrade	MDMS	E2E System Testing (MDMS Upgrade)	303	\$ -	\$ -	\$ -	\$ -	\$ -	N/A, post project
17	03.Systems	Middleware	Middleware	Middleware	Middleware (Implement)	303	\$ -	\$ 340,080	\$ 425,100	\$ 85,020	\$ 850,200	PPL Internal, connection of interfaces
18	03.Systems	Middleware	Middleware	Middleware	Middleware - SI Vendor (Implement)	303	\$ -	\$ 468,684	\$ 798,439	\$ 640,277	\$ 1,907,400	TCS system integrator services milestone achievement - estimated
19	03.Systems	CyberSecurity	CyberSecurity	CyberSecurity	CyberSecurity (Implement)	303	\$ -	\$ 253,500	\$ -	\$ -	\$ 253,500	External vendor for cyber and penetration testing
20	03.Systems	CyberSecurity	CyberSecurity	CyberSecurity	CyberSecurity - Internal	303	\$ -	\$ 109,200	\$ 109,200	\$ -	\$ 218,400	PPL Internal
21	03.Systems	CyberSecurity	CyberSecurity	CyberSecurity	SI Vendor - CyberSecurity (Implement)	303	\$ -	\$ 431,778	\$ 747,202	\$ 606,020	\$ 1,785,000	TCS system integrator services milestone achievement - estimated
22	03.Systems	Customer Engagement	Customer Portal	Customer Portal	Customer Portal	303	\$ -	\$ 205,840	\$ 51,460	\$ -	\$ 257,300	Accelerated Innovations - estimated
23	03.Systems	Customer Engagement	Customer Portal	Customer Portal	Customer Portal - Internal	303	\$ -	\$ 592,000	\$ 495,000	\$ -	\$ 1,087,000	PPL Internal
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	\$ -	\$ -	\$ 345,365	\$ -	\$ 345,365	PPL Internal
26	03.Systems	Customer Engagement	Green Button	Green Button	Green Button Connect	303	\$ -	\$ -	\$ -	\$ -	\$ -	
27	03.Systems	Customer Engagement	Green Button	Green Button	Green Button Connect - Internal	303	\$ -	\$ -	\$ 289,467	\$ -	\$ 289,467	PPL Internal
28	03.Systems	Customer Engagement	Bill Alerts	Bill Alerts	Bill Alerts	303	\$ -	\$ -	\$ -	\$ -	\$ -	
29	03.Systems	Customer Engagement	Bill Alerts	Bill Alerts	Bill Alerts - Internal	303	\$ -	\$ -	\$ 257,400	\$ -	\$ 257,400	PPL Internal
30	03.Systems	Customer Engagement	DG Portal	DG Portal	Solar Marketplace	303	\$ -	\$ -	\$ -	\$ -	\$ -	out of scope
31	03.Systems	Customer Engagement	Carbon Footprint Calc.	Carbon Footprint Calc.	Carbon Footprint Calculator	303	\$ -	\$ -	\$ -	\$ -	\$ -	out of scope
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	ADMS & OMS	ADMS & OMS	ADMS & OMS	303	\$ -	\$ -	\$ 673,400	\$ 288,600	\$ 962,000	Vendor costs
35	03.Systems	ADMS & OMS	ADMS & OMS	ADMS & OMS	ADMS & OMS - Internal	303	\$ -	\$ -	\$ 540,800	\$ 135,200	\$ 676,000	PPL Internal
36	03.Systems	Grid Edge & Load Dissag.	Customer Load Dissag. App (HAN)	HAN APP	Customer Load Dissag. App Vendor (HAN Solution)	303	\$ -	\$ -	\$ 1,069,924	\$ 130,076	\$ 1,200,000	Vendor costs
37	03.Systems	Grid Edge & Load Dissag.	Customer Load Dissag. App (HAN)	HAN APP	Customer Load Dissag. App Vendor (HAN Solution) - Internal	303	\$ -	\$ -	\$ 239,200	\$ -	\$ 239,200	PPL Internal
38	03.Systems	AFUDC	AFUDC	AFUDC	AFUDC	303	\$ 367,054	\$ 421,206	\$ -	\$ -	\$ 788,260	Allowance for Funds Using During Construction - on the software costs up until we start meter deployment
39												
40							\$ 2,403,766	\$ 11,487,033	\$ 13,280,123	\$ 7,596,778	\$ 34,767,700	

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

Attachment 4-1-2 supplemental

Row No.	Cost Category 1	Cost Category 2	Cost Category 3	Cost Category 4	Full Description	FERC Account	FY24	FY25	FY26	FY27	FY24 - FY27	TOTAL COSTS	NOTES
							April 2023 to March 2024	April 2024 to March 2025	April 2025 to March 2026	April 2026 to March 2027			
1	02.Network	Project Management	Vendor /External Labor	Installation Vendor	RF Network Installation Vendor Project Management Oversight	397	\$ -	\$ 350,000	\$ 150,000	\$ 1,380,042	\$ -	\$ 1,880,042	L&G installation services milestone achievement - estimated
2	02.Network	Project Management	Vendor /External Labor	Network Gateway	RF Network Installation Vendor Project Management Oversight	397	\$ -	\$ -	\$ 3,379,640	\$ -	\$ -	\$ 3,379,640	L&G installation services milestone achieve - estimated network software
3	02.Network	Hardware	Gateway	Network Gateway	(High Capacity Gateways) Hardware - High Capacity Network Gateway	397	\$ -	\$ 247,170	\$ 161,035	\$ -	\$ -	\$ 408,205	L&G network hardware
4	02.Network	Hardware	Gateway	Modem	(High Capacity Gateways) Hardware - Cellular Backhaul Modem	397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	N/A - fully integrated w, and part of unit price, for network gateways
5	02.Network	Hardware	Gateway	Telecom Cabinet	(High Capacity Gateways) Hardware - Telecom Cabinet	397	\$ -	\$ 337,050	\$ 99,510	\$ -	\$ -	\$ 436,560	RIE purchased hardware, cabinets
6	02.Network	Hardware	Gateway	Poles	Service Disconnect Switch	397	\$ -	\$ 54,133	\$ -	\$ -	\$ -	\$ 54,133	RIE purchased hardware, disconnect switch
7	02.Network	Hardware	Gateway	Poles	(Gateways) Pole (Equipment) - Steel	397	\$ -	\$ 456,376	\$ -	\$ -	\$ -	\$ 456,376	RIE purchased hardware, steel poles
8	02.Network	Hardware	Gateway	Poles	(Gateways) Pole (Equipment) - Wood	397	\$ -	\$ 60,926	\$ -	\$ -	\$ -	\$ 60,926	RIE purchased hardware, wood poles
9	02.Network	Hardware	Gateway	Network Gateway	(Standard Capacity Gateways) Hardware - Network Gateway	397	\$ -	\$ 750,926	\$ 496,480	\$ -	\$ -	\$ 1,247,406	L&G network hardware
10	02.Network	Hardware	Router	Routers	(Routers) Hardware - Routers	397	\$ -	\$ 1,072,397	\$ 714,391	\$ -	\$ -	\$ 1,786,788	L&G network hardware
11	02.Network	Hardware	Transformers	Transformers	Additional Transformers required - material	397	\$ -	\$ 94,226	\$ -	\$ -	\$ -	\$ 94,226	RIE purchased hardware, transformers
12	02.Network	Hardware	Gateway	Network Testing	Network Development and Testing - Routers, Gateways, Antennas, Modem	397	\$ -	\$ 12,642	\$ -	\$ -	\$ -	\$ 12,642	Antennas, modem, routers for test environment
13	02.Network	Hardware	Ancillary Equipment	Network Testing	Network Development and Testing - Equipment	397	\$ -	\$ 8,560	\$ -	\$ -	\$ -	\$ 8,560	Ancillary hardware for testing: sprectrum analyzer, cables, radio
14	02.Network	Installs	Gateway	Site Installations	(High Capacity Gateways) Site Installation (pole, antennas, cabinets, etc)	397	\$ -	\$ 60,000	\$ 1,172,000	\$ 604,781	\$ -	\$ 1,836,781	L&G installation services milestone achievement - estimated
15	02.Network	Installs	Site Engineering	Site Engineering Permits	(High Capacity Gateways) Site Engineering design (power, permits, FAA, etc)	397	\$ -	\$ 300,000	\$ 24,600	\$ -	\$ -	\$ 324,600	L&G installation services milestone achievement - estimated
16	02.Network	Installs	Gateway	Network Gateway	(Standard Capacity Gateways) Installation - Network Gateway	397	\$ -	\$ 140,000	\$ 616,200	\$ -	\$ -	\$ 756,200	L&G installation services milestone achievement - estimated
17	02.Network	Installs	Router	Routers	(Routers) Installation - Routers	397	\$ -	\$ 472,500	\$ 1,539,700	\$ -	\$ -	\$ 2,012,200	L&G installation services milestone achievement - estimated
18	02.Network	Installs	Transformers	Transformers	Additional Transformers required - Install	397	\$ -	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ 70,000	L&G installation services milestone achievement - estimated
19	02.Network	Installs	Gateway	Network Testing	Network Development and Testing - Installation	397	\$ -	\$ 12,000	\$ -	\$ -	\$ -	\$ 12,000	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 Upgrade	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	02.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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	shown in Program
29	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - AMO Network Analyst	397	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	shown in Program
30													
31							\$ -	\$ 4,478,906	\$ 8,373,556	\$ 1,984,823	\$ -	\$ 14,837,285	

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

Attachment 4-1-3 supplemental

Row No.	Cost Category_1	Cost Category_2	Cost Category_3	Cost Category_4	Full Description	FERC Account	FY24	FY25	FY26	FY27	FY24 - FY27	TOTAL COSTS	NOTES
							April 2023 to March 2024	April 2024 to March 2025	April 2025 to March 2026	April 2026 to March 2027			
1	01.Meter	Project Management	Vendor /External Labor	Installation Vendor	Meter Installation Vendor Project Management Oversight	370	\$ -	\$ 643,275	\$ 1,418,883	\$ 476,133	\$ -	\$ 2,538,290	Meter installation services milestone achievement - estimated
2	01.Meter	Hardware	Ancillary Equipment	Antennas	External Antenna Cost (Residential)	370	\$ -	\$ 26,868	\$ 26,868	\$ -	\$ -	\$ 53,735	L&G contract - network
3	01.Meter	Hardware	Ancillary Equipment	Antennas	External Antenna Cost (Commercial)	370	\$ -	\$ 2,985	\$ 2,985	\$ -	\$ -	\$ 5,971	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	\$ 3,339,661	\$ -	\$ -	\$ 5,504,977	pre sweeps -milestone axchievement - estimated
6	01.Meter	Installs	QA/QC	Testing Vendor	Shipment Sample Meter Testing (Residential & Commercial)	370	\$ -	\$ 12,490	\$ 21,720	\$ -	\$ -	\$ 34,210	sample meter testing per ANSI standard
7	01.Meter	Installs	Facility	Crossdock	Deployment Center, Facility cost (Crossdock)	370	\$ -	\$ 454,559	\$ 1,002,628	\$ 336,451	\$ -	\$ 1,793,638	Meter installation services milestone achievement - estimated
8	01.Meter	Installs	Facility	Call Center	Deployment Call Center & Notification Letters	370	\$ -	\$ 546,891	\$ 1,206,288	\$ 404,793	\$ -	\$ 2,157,971	Meter installation services milestone achievement - estimated
9	01.Meter	Installs	Meters	Resid. Meters	Deployment - Automated RF (AMF) Meter Install Cost - Residential	370	\$ -	\$ -	\$ 9,534,646	\$ 2,407,304	\$ -	\$ 11,941,950	Meter installation services milestone achievement
10	01.Meter	Installs	Meters	C&I Meters	Deployment - Automated RF (AMF) Meter Install Cost - Commercial	370	\$ -	\$ -	\$ 1,433,103	\$ 341,276	\$ -	\$ 1,774,379	Meter installation services milestone achievement
11	01.Meter	Installs	Meters	Resid. Antennas	Deployment - External Antenna Electric Meter Install Cost - Residential	370	\$ -	\$ -	\$ 106,680	\$ 5,334	\$ -	\$ 112,014	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	\$ -	\$ -	\$ 28,194	\$ 1,524	\$ -	\$ 29,718	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	\$ -	\$ -	\$ 420,507	\$ 238,859	\$ -	\$ 659,366	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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	shown in Program
15	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Metrics, Measures, and Financial Tracking	370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	shown in Program
16	04.Program	Project Management	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Meter Inventory Management Analyst	370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
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	\$ 39,545,081	\$ -	\$ -	\$ 61,635,251	Hardware - residential meters
23	01.Meter	Hardware	Meters	Meters	Automated RF (AMF) Meter Cost (Commercial)	370	\$ -	\$ 2,782,033	\$ 2,864,428	\$ -	\$ -	\$ 5,646,461	Hardware - commercial meters
24	01.Meter	Hardware	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Residential)	370	\$ -	\$ -	\$ 769,202	\$ -	\$ -	\$ 769,202	
25	01.Meter	Hardware	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Commercial)	370	\$ -	\$ -	\$ 73,678	\$ -	\$ -	\$ 73,678	
26													
27							\$0	\$28,724,587	\$61,794,551	\$4,211,674	\$94,730,812		

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

Attachment 4-1-4 supplemental

Row No.	Cost Category_1	Cost Category_3	Cost Category_4	Description	FERC Account	FY24	FY25	FY26	FY27	FY24 - FY27	TOTAL COSTS	NOTES
						April 2023 to March 2024	April 2024 to March 2025	April 2025 to March 2026	April 2026 to March 2027			
1	04.Program	Vendor /External Labor	PMO Vendor Labor	PMO External		\$ -	\$ 1,978,054	\$ 1,978,054	\$ 989,027	\$ 4,945,135		Project oversight- outside consultants - will be allocated to meters, network, and software. External vendor labor personnel that will directly support the AMF Program.
2	04.Program	PMO/Internal Labor	PMO Internal Labor	PMO Internal		\$ 126,988	\$ 1,523,851	\$ 1,523,851	\$ 761,925	\$ 3,936,615		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.
3												
4						\$ 126,988	\$ 3,501,905	\$ 3,501,905	\$ 1,750,952	\$ 8,881,750		

PUC 4-2 – Supplemental  
**Advanced Metering Functionality Revenue Requirement**

Request:

Attachment PUC 2-2-2 includes a row in “Systems” labeled “Customer Engagement.” Please provide a description of this category. In Docket No. 22-49-EL, the Company presented Customer Engagement costs as both capex and opex.

- a. Please provide the total expected spend on Customer Engagement in ISR FY 2025.
- b. Please break out the total in 4-2.a between capex and opex.

Response:

The “Customer Engagement” category is comprised of capital costs for the Customer Portal for customers to log into when they have a new AMF meter. This work also includes estimates for Bill Alerts and Outage Alerts, and an estimate for the Customer Load Disaggregation App (HAN Solution). This work is capital in nature.

- a. The total expected spend on Customer Engagement in FY 2025 (i.e., April 2024 through March 2025) is \$737,358. In addition, there is small amount of estimated expense (\$71,045) that is not included in the FY 2025 ISR Plan.
- b. The \$737,358 is all capital.

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.

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**Advanced Metering Functionality Revenue Requirement**

- a. The total expected spend on Customer Engagement in FY 2025 (i.e., April 2024 through March 2025) is \$797,840. This is specific to the activities for Customer Portal. The reason for the increase of \$60,482 from the original response is due to the addition of internal technical resources.
- b. The \$797,840 is all capital. Expense costs for ongoing maintenance and support is not planned to begin until May 2025 (FY 2026), which is after the go-live production release and successful completion of solution validation.

Additionally, please see Attachment PUC 9-19-5, which is an updated Section 5, Attachment 3, which was originally filed as part of the Proposed FY 2025 Electric Infrastructure, Safety, and Reliability Plan Filing (starting on Bates 277). The revised revenue requirement reflects the updated forecasted FY 2025 capital in service for the reasons described above, as well as reflecting 1) the corrected book depreciation rate for network investments as described in the response to PUC 2-3 and 2) the removal of MDMS costs from software rather than meters as was described in the response to PUC 4-5. On the attachment, the Company has highlighted the cells that have input changes from the originally filed revenue requirement. The Company did not highlight all of the flow through cells that changed.



PUC 4-5 - Supplemental  
**Advanced Metering Functionality Revenue Requirement**

Request:

Compare (i) the capex spending forecasted in Attachment PUC 2-1 to (ii) the "Placed in Service" shown on Attachment PUC 2-2-2, where the total spending of \$56,821,186 (as shown in PUC 2-1) appears to match the total spending amount forecasted to be in service in FY 2025 (as shown in PUC 2-2-2).

- a. Please explain why the individual spending categories do not appear to match between the two schedules, even though the totals match. For example, PUC 2-1 shows \$31,631,372 for meter spend while Attachment PUC 2-2-2 forecasts \$28,655,473 of meter costs in service.
- b. Similarly, please explain why Attachment PUC 2-2-1, page 2, line 3 shows FY 2025 capital spending for meters at \$29,971,477, upon which the forecasted revenue requirement is based, which amount also differs from the other referenced schedules.

Original Response:

- a. Attachment PUC 2-1 represents the cost by category after Program Management costs were allocated between Meters, Network and Software, while Attachment PUC 2-2-2 shows Program Management costs on a separate line.

For example, on Attachment PUC 2-1, total Meter costs placed in service during FY 2025 of \$31,631,372 are comprised of \$28,655,473 of meter costs from Attachment PUC 2-2-2 plus an allocation of \$2,975,899 of the total Program Management costs from Attachment PUC 2-2-2. This same reason applies to the differences for Network and Software.

- b. The total meter cost to be placed in service during FY 2025 was \$31,631,372; however, in Attachment PUC 2-2-1 and the revenue requirement, the removal of the FY 2025 MDMS cost of \$1,659,895 was inadvertently removed from the meter category rather than software. Please see Attachment PUC 4-5 for a revised version of Attachment PUC 2-2-1, which properly reflects the removal of meter data management system ("MDMS") from the software category. The applicable MDMS in service amounts in FY 2026 and FY 2027 were properly removed from the software category on Attachment PUC 2-2-1.

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**Advanced Metering Functionality Revenue Requirement**

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.

- a. Attachment PUC 2-1 Supplemental represents the cost by category after Program Management costs were allocated between Meters, Network and Software, while Attachment PUC 2-2-2 Supplemental shows Program Management costs on a separate line.

For example, on Attachment PUC 2-1 Supplemental, total Meter costs placed in service during FY 2025 of \$31,010,789 are comprised of \$28,724,587 of meter costs from Attachment PUC 2-2-2 Supplemental plus an allocation of \$2,286,203 of the total Program Management costs from Attachment PUC 2-2-2 Supplemental. This same reason applies to the differences for Network and Software.

- b. In Attachment PUC 9-19-5, the removal of MDMS was properly reflected in the software category. As a result, Attachment PUC 2-2-1 Supplemental, Page 2, Line 3 shows FY 2025 capital spending for meters (plus allocated portion of program management costs) at \$31,010,789 which aligns with the FY 2025 meter capital spending on Attachment PUC 2-1 Supplemental and Attachment PUC 2-2-2 Supplemental.

Additionally, please see Attachment PUC 9-19-5, which is an updated Section 5, Attachment 3, which was originally filed as part of the Proposed FY 2025 Electric Infrastructure, Safety, and Reliability Plan Filing (starting on Bates 277). The revised revenue requirement reflects the updated forecasted FY 2025 capital in service for the reasons described above, as well as reflecting 1) the corrected book depreciation rate for

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**Advanced Metering Functionality Revenue Requirement**

network investments as described in the response to PUC 2-3 and 2) the removal of MDMS costs from software rather than meters as was described in the response to PUC 4-5. On the attachment, the Company has highlighted the cells that have input changes from the originally filed revenue requirement. The Company did not highlight all of the flow through cells that changed.

PUC 4-6 – Supplemental  
**Advanced Metering Functionality Revenue Requirement**

Request:

Referring to Attachment PUC 2-2-1, please provide the total number of meters forecasted to be installed in FY 2025 which relates to the \$29,971,477 total on line 1 of page 2, and provide the total equipment cost associated with those meters.

Original Response:

The \$29,971,477 from Attachment PUC 2-2-1 was incorrect; that amount should have been \$31,631,372. Please see the Company's response to PUC 4-5 for an explanation of the corrected amount.

The total number of meters forecasted to be installed in FY 2025 is 22,785. The total equipment cost associated with those meters is \$24,872,174.

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 FY2025 forecasted spend and increases FY 2026 and FY 2027.

The total number of meters forecasted to be installed in FY 2025 is 70. The equipment cost of those 70 installed meters is \$8,636, which is reflected in the Company's response to PUC 9-20, part a.

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**Advanced Metering Functionality Revenue Requirement**

The Company's proposed total FY 2025 in service equipment cost for meters, however, is \$28,724,587 as referenced in Attachment PUC 2-2-1 Supplemental. Please see the Company's supplemental response to PUC 1-2, part b, for additional explanation regarding the in-service treatment of meters.

Additionally, please see Attachment PUC 9-19-5, which is an updated Section 5, Attachment 3, which was originally filed as part of the Proposed FY 2025 Electric Infrastructure, Safety, and Reliability Plan Filing (starting on Bates 277). The revised revenue requirement reflects the updated forecasted FY 2025 capital in service for the reasons described above, as well as reflecting 1) the corrected book depreciation rate for network investments as described in the response to PUC 2-3 and 2) the removal of MDMS costs from software rather than meters as was described in the response to PUC 4-5. On the attachment, the Company has highlighted the cells that have input changes from the originally filed revenue requirement. The Company did not highlight all of the flow through cells that changed.