

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-49-EL
In Re: Advanced Metering Functionality Business Case
and Cost Recovery Proposal
Responses to the Commission's First Set of Data Requests
Issued December 8, 2022

PUC 1-13

Request:

Referring to Schedule SAB/BLJ-1, page 9, please provide the number of meters being placed into service upon which the capex costs were calculated in the CapEx column for each year, including (a) the forecasted costs per meter, and (b) any other costs associated with the meters which are included in the calculation.

Response:

Please see Attachment PUC 1-13 for a breakdown of the Electric Meters costs by component for each year on Schedule SAB/BLJ-1, Page 9. The attachment is broken out by meter costs and other costs associated with the meters. The meter costs calculations are provided on Page 4 of Attachment PUC 1-13 by forecasted number of meters and forecasted cost per meter. Attachment H to the AMF Business Case, beginning on Page 23, provides detailed descriptions for the components on Attachment PUC 1-13.

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

DEPLOYMENT

AMF Recovery Year 1 AMF Recovery Year 2 AMF Recovery Year 3 AMF Recovery Year 4

Cost Category 1	Cost Category 3	Cost Category 4	Full Description	FERC Account	October to September 2023	October to September 2024	October to September 2025	October to September 2026
01.Meter	Ancillary Equipment	Antennas	External Antenna Cost (Residential)	370	\$0	\$17,952	\$26,705	\$6,907
01.Meter	Ancillary Equipment	Antennas	External Antenna Cost (Commercial)	370	\$0	\$2,572	\$3,823	\$988
01.Meter	Meters	Meters	Meter Development and Testing - Meters	370	\$6,831	\$4,554	\$759	\$0
01.Meter	Meter Base	Meter Bases	Total Electric Meter Pre-Sweeps for deployment	370	\$0	\$2,200,089	\$1,833,414	\$366,684
01.Meter	QA/QC	Testing Vendor	Shipment Sample Meter Testing (Residential & Commercial)	370	\$0	\$207,037	\$163,700	\$31,563
01.Meter	Facility	Crossdock	Deployment Center, Facility cost (Crossdock)	370	\$0	\$750,000	\$1,000,000	\$250,000
01.Meter	Facility	Call Center	Deployment Call Center	370	\$0	\$795,536	\$1,060,715	\$265,179
01.Meter	Meters	Resid. Meters	Deployment - Automated RF (AMF) Meter Install Cost - Residential	370	\$0	\$2,070,626	\$7,042,043	\$2,117,278
01.Meter	Meters	C&I Meters	Deployment - Automated RF (AMF) Meter Install Cost - Commercial	370	\$0	\$592,911	\$2,016,444	\$606,269
01.Meter	Meters	Resid. Antennas	Deployment - External Antenna Electric Meter Install Cost - Residential	370	\$0	\$10,071	\$34,249	\$10,297
01.Meter	Meters	C&I Antennas	Deployment - External Antenna Electric Meter Install Cost - Commercial	370	\$0	\$1,442	\$4,904	\$1,474
01.Meter	Meters	Meters (Growth)	Growth - Automated RF (AMF) Meter Cost (Residential)	370	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters (Growth)	Growth - Automated RF (AMF) Meter Cost (Commercial)	370	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters (Replacements)	Meter Replacements - Automated RF (AMF) Meter Cost (Residential)	370	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters (Replacements)	Meter Replacements - Automated RF (AMF) Meter Cost (Commercial)	370	\$0	\$0	\$0	\$0
			Other Costs		\$1,388,661	\$10,940,178	\$18,187,668	\$4,898,413
			Total Meters and Costs		\$1,388,661	\$34,993,565	\$53,233,838	\$13,907,871

(1) Descriptions of cost line items can be found in Benefit Cost Guide Memo - CONFIDENTIAL - Attachment H

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

POST-DEPLOYMENT / OPERATIONS

<u>Cost Category 1</u>	<u>Cost Category 3</u>	<u>Cost Category 4</u>	<u>Full Description</u>	<u>FERC Account</u>	AMF Recovery Year 5	AMF Recovery Year 6	AMF Recovery Year 7	AMF Recovery Year 8	AMF Recovery Year 9	AMF Recovery Year 10	AMF Recovery Year 11	AMF Recovery Year 12
					October to September 2027	October to September 2028	October to September 2029	October to September 2030	October to September 2031	October to September 2032	October to September 2033	October to September 2034
01.Meter	Vendor /External Labor	Installation Vendor	Meter Installation Vendor Project Management Oversight	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Ancillary Equipment	Antennas	External Antenna Cost (Residential)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Ancillary Equipment	Antennas	External Antenna Cost (Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters	Meter Development and Testing - Meters	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meter Base	Meter Bases	Total Electric Meter Pre-Sweeps for deployment	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	QA/QC	Testing Vendor	Shipment Sample Meter Testing (Residential & Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Facility	Crossdock	Deployment Center, Facility cost (Crossdock)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Facility	Call Center	Deployment Call Center	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Resid. Meters	Deployment - Automated RF (AMF) Meter Install Cost - Residential	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	C&I Meters	Deployment - Automated RF (AMF) Meter Install Cost - Commercial	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Resid. Antennas	Deployment - External Antenna Electric Meter Install Cost - Residential	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	C&I Antennas	Deployment - External Antenna Electric Meter Install Cost - Commercial	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	PPL Labor	PPL Labor	PPL PMO Oversight - AMF Implementation PMO	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Project Manager / Deployment Lead	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Metrics, Measures, and Financial Tracking	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Meter Inventory Management Analyst	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Deployment Exception Coordinator(s)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Other Costs		\$128,027	\$171,023	\$234,512	\$287,492	\$329,963	\$340,904	\$341,336	\$341,769
01.Meter	Meters	Meters	Automated RF (AMF) Meter Cost (Residential)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters	Automated RF (AMF) Meter Cost (Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Residential)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Meter Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Total Meters and Costs		\$128,027	\$171,023	\$234,512	\$287,492	\$329,963	\$340,904	\$341,336	\$341,769

(1) Descriptions of cost line items can be found in Benefit Cost Guide Memo - CONFIDENTIAL - Attachment H

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

POST-DEPLOYMENT / OPERATIONS

Cost Category 1	Cost Category 3	Cost Category 4	Full Description	FERC Account	AMF Recovery	AMF Recovery	AMF Recovery	AMF Recovery	AMF Recovery	AMF Recovery	AMF Recovery	AMF Recovery
					Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
					October to	October to	October to	October to	October to	October to	October to	October to
					September 2035	September 2036	September 2037	September 2038	September 2039	September 2040	September 2041	September 2042
01.Meter	Vendor /External Labor	Installation Vendor	Meter Installation Vendor Project Management Oversight	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Ancillary Equipment	Antennas	External Antenna Cost (Residential)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Ancillary Equipment	Antennas	External Antenna Cost (Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters	Meter Development and Testing - Meters	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meter Base	Meter Bases	Total Electric Meter Pre-Sweeps for deployment	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	QA/QC	Testing Vendor	Shipment Sample Meter Testing (Residential & Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Facility	Crossdock	Deployment Center, Facility cost (Crossdock)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Facility	Call Center	Deployment Call Center	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Resid. Meters	Deployment - Automated RF (AMF) Meter Install Cost - Residential	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	C&I Meters	Deployment - Automated RF (AMF) Meter Install Cost - Commercial	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Resid. Antennas	Deployment - External Antenna Electric Meter Install Cost - Residential	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	C&I Antennas	Deployment - External Antenna Electric Meter Install Cost - Commercial	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	PPL Labor	PPL Labor	PPL PMO Oversight - AMF Implementation PMO	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Project Manager / Deployment Lead	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Metrics, Measures, and Financial Tracking	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Meter Inventory Management Analyst	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04.Program	Vendor /External Labor	PMO Vendor Labor	PMO Vendor - Deployment Exception Coordinator(s)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Other Costs		\$342,203	\$342,638	\$343,075	\$343,512	\$343,950	\$344,390	\$344,830	\$86,235
01.Meter	Meters	Meters	Automated RF (AMF) Meter Cost (Residential)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meters	Automated RF (AMF) Meter Cost (Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Residential)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
01.Meter	Meters	Meter Seed Stock	Automated RF (AMF) Meter Cost - Spares / Seed Stock (Commercial)	370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Meter Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			Total Meters and Costs		\$342,203	\$342,638	\$343,075	\$343,512	\$343,950	\$344,390	\$344,830	\$86,235

(1) Descriptions of cost line items can be found in Benefit Cost Guide Memo - CONFIDENTIAL - Attachment H

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

	AMF Recovery Year 1 October to September 2023	AMF Recovery Year 2 October to September 2024	AMF Recovery Year 3 October to September 2025	AMF Recovery Year 4 October to September 2026	Total
# of Residential Meters	-	159,788	237,699	61,479	458,966
Cost Per Meter (Confidential Attachment H)	-	-	-	-	-
Sales Tax	7%	7%	7%	7%	-
Cost Per Year	-	-	-	-	-
# of Commercial Meters	-	22,889	34,024	8,798	65,711
Cost Per Meter (Confidential Attachment H)	-	-	-	-	-
Sales Tax	7%	7%	7%	7%	-
Cost Per Year	-	-	-	-	-
# of Residential Meters Seed Stock (1.25%)	-	4,286	1,429	-	5,715
Cost Per Meter (Confidential Attachment H)	-	-	-	-	-
Sales Tax	7%	7%	7%	7%	-
Cost Per Year	-	-	-	-	-
# of Commercial Meters Seed Stock (1.28%)	-	632	211	-	843
Cost Per Meter (Confidential Attachment H)	-	-	-	-	-
Sales Tax	7%	7%	7%	7%	-
Cost Per Year	-	-	-	-	-