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April 20, 2023

VIA ELECTRONIC MAIL

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

**RE: Docket No. 22-49-EL-The Narragansett Electric Company d/b/a Rhode Island Energy
Advanced Metering Functionality Business Case
PUC 1-13 Response**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”), the Company submits an updated electronic version of Rhode Island Energy’s redacted response to PUC 1-13 in the above-referenced matter.

As reported at the April 14, 2023 hearing, the Company reviewed the response to determine whether any information for which the Company initially sought confidential treatment can be made public without compromising the interests of the Company’s third-party vendors or disclosing sensitive information. As a result of this review, the Company has unredacted and withdrawn some of the information previously subject to its request for confidentiality. The updated Attachment PUC 1-13 is designated as “Supplemental” in the attached.

Thank you for your time and attention to this matter. If you have any questions, please contact Jennifer Brooks Hutchinson at 401-316-7429.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Jennifer Brooks Hutchinson", with a long horizontal flourish extending to the right.

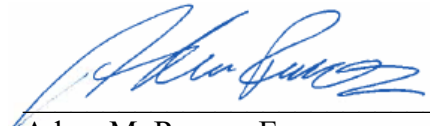
Jennifer Brooks Hutchinson

Enclosures

cc: Docket No. 22-49-EL Service List
John Bell, Division
Leo Wold, Esq.

CERTIFICATE OF SERVICE

I certify that a copy of the within documents was forwarded by e-mail to the Service List in the above docket on the 11th day of April, 2023.



Adam M. Ramos, Esq.

The Narragansett Electric Company d/b/a Rhode Island Energy
Docket No. 22-49-EL Advanced Meter Functionality (AMF)
Service list updated 4/6/2023

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| Amanda Barker | amanda@greenenergyconsumers.org ; | |

Luly E. Massaro, Commission Clerk
Docket No. 22-49-EL – AMF Business Case
April 20, 2023
Page 5 of 5

| | | |
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| Nancy Lavin | nlavin@rhodeislandcurrent.com ; | |

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

| <u>Cost Category 1</u> | <u>Cost Category 3</u> | <u>Cost Category 4</u> | <u>Full Description</u> | <u>FERC Account</u> | <u>October to September 2023</u> | <u>October to September 2024</u> | <u>October to September 2025</u> | <u>October to September 2026</u> |
|-------------------------------|------------------------|------------------------|---|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 01.Meter | Vendor /External Labor | Installation Vendor | Meter Installation Vendor Project Management Oversight | 370 | \$507,830 | \$1,184,936 | \$1,354,212 | \$338,553 |
| 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 |
| 04.Program | PPL Labor | PPL Labor | PPL PMO Oversight - AMF Implementation PMO | 370 | | | | |
| 04.Program | Vendor /External Labor | PMO Vendor Labor | PMO Vendor - Project Manager / Deployment Lead | 370 | | | | |
| 04.Program | Vendor /External Labor | PMO Vendor Labor | PMO Vendor - Metrics, Measures, and Financial Tracking | 370 | | | | |
| 04.Program | Vendor /External Labor | PMO Vendor Labor | PMO Vendor - Meter Inventory Management Analyst | 370 | | | | |
| 04.Program | Vendor /External Labor | PMO Vendor Labor | PMO Vendor - Deployment Exception Coordinator(s) | 370 | | | | |
| 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 |
| 01.Meter | Meters | Meters | Automated RF (AMF) Meter Cost (Residential) | 370 | | | | |
| 01.Meter | Meters | Meters | Automated RF (AMF) Meter Cost (Commercial) | 370 | | | | |
| 01.Meter | Meters | Meter Seed Stock | Automated RF (AMF) Meter Cost - Spares / Seed Stock (Residential) | 370 | | | | |
| 01.Meter | Meters | Meter Seed Stock | Automated RF (AMF) Meter Cost - Spares / Seed Stock (Commercial) | 370 | | | | |
| Meter Costs | | | | | | | | |
| 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

| 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 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 | Year 12 |
| | | | | | October to | October to | October to | October to | October to | October to | October to | October to |
| | | | | | September 2027 | September 2028 | September 2029 | September 2030 | September 2031 | September 2032 | September 2033 | 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 |
| 01.Meter | Meters | Meters (Growth) | Growth - Automated RF (AMF) Meter Cost (Residential) | 370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 01.Meter | Meters | Meters (Growth) | Growth - Automated RF (AMF) Meter Cost (Commercial) | 370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 01.Meter | Meters | Meters (Replacements) | Meter Replacements - Automated RF (AMF) Meter Cost (Residential) | 370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 01.Meter | Meters | Meters (Replacements) | Meter Replacements - Automated RF (AMF) Meter Cost (Commercial) | 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 |
| 01.Meter | Meters | Meters (Growth) | Growth - Automated RF (AMF) Meter Cost (Residential) | 370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 01.Meter | Meters | Meters (Growth) | Growth - Automated RF (AMF) Meter Cost (Commercial) | 370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 01.Meter | Meters | Meters (Replacements) | Meter Replacements - Automated RF (AMF) Meter Cost (Residential) | 370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 01.Meter | Meters | Meters (Replacements) | Meter Replacements - Automated RF (AMF) Meter Cost (Commercial) | 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 | - | - | - | - | - |