

April 27, 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
Responses to Division Data Requests – Division Set 5**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”), attached is the electronic version of Rhode Island Energy’s responses to the Division of Public Utilities & Carriers’ (the “Division”) Fifth Set of Data Requests in the above-referenced matter, specifically Division 5-1, Division 5-2, and Division 5-3.¹ This completes the Company’s responses to the Fifth Set of Data Requests.

This filing includes a Motion for Protective Treatment of Confidential Information in accordance with Commission Rules of Practice and Procedure 1.3(H)(3) and R.I. Gen. Laws § 38-2-2(4) for the response to Request 5-1, which contains confidential and proprietary business information. For the reasons stated in the Motion for Protective Treatment, the Company seeks protection from public disclosure of portions of Attachment DIV 5-1-1 and Attachment DIV 5-1-2. Accordingly, the Company has provided the Commission with an original and two complete, unredacted copies of the confidential document in a sealed envelope marked “**Contains Privileged and Confidential Information – Do Not Release**,” and has included a redacted version of the response to Request 5-1 for the public filing.

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,



Jennifer Brooks Hutchinson

¹ Per communication from Commission counsel on October 4, 2021, the Company is submitting an electronic version of this filing followed by hard copies filed with the Clerk within 24 hours of the electronic filing.

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Docket No. 22-49-EL – AMF Business Case
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Enclosures

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

The Narragansett Electric Company
d/b/a Rhode Island Energy
Docket No. 22-49-EL

In Re: Rhode Island Energy Advanced Metering Functionality Business Case and
Cost Recovery Program
Responses to the Division's Fifth Set of Data Requests
Issued on April 18, 2023

Division 5-1

Request:

The Company's response to Division 4-7 states the AMF meters with remote disconnect/reconnect switches are less expensive than AMF meters without the feature. Provide a copy of the vendor bids for the AMF meters with the remote disconnect/reconnect feature and the AMF meters without the feature.

Response:

Please see Attachment DIV 5-1-1 Confidential, which is a copy of the Rhode Island Energy Hardware Pricing letter dated December 7, 2022 and includes the vendor bids for the advanced metering functionality ("AMF") meters both with the remote disconnect/reconnect feature and without the feature. Please also see Attachment DIV 5-1-2 Confidential, which is a copy of a letter from the vendor providing clarification on the information in Attachment DIV 5-1-1.

Redacted



December 07, 2022

Phil Walnock Director of Product Portfolio
PPL Corporation
2 N. Ninth Street
Allentown, PA 18101

Subject: Rhode Island Energy Hardware Pricing

Dear Mr. Walnock:

[Redacted] sincerely appreciates the opportunity to provide the following details to PPL for [Redacted] AMI solution hardware for the Rhode Island Energy project.

The following table represents the solution components and pricing for this project.

Solution Components and Pricing

Description	Quantity	Unit Price	Extended Price
Electric Meters with Communication Modules			
RF [Redacted] (Form 2S-SD)	[Redacted]	[Redacted]	\$49,024,848.58
RF [Redacted] (Form 1S-SD)	[Redacted]	[Redacted]	\$130,985.68
RF [Redacted] (Form 12S-SD)	[Redacted]	[Redacted]	\$8,099,642.49
RF [Redacted] (Forms 1S, 2S, 3S, 3SC, 4S)	[Redacted]	[Redacted]	\$10,956.33
RF [Redacted] (Form 2SE)	[Redacted]	[Redacted]	\$439,423.74
RF [Redacted] (Forms 5/45S, 6/36S, 12/25S, 29S)	[Redacted]	[Redacted]	\$308,994.42
RF [Redacted] (Forms 12/25SE)	[Redacted]	[Redacted]	\$6,879.12
RF [Redacted] (Forms 8/9S, 14/15/16S)	[Redacted]	[Redacted]	\$5,020,024.59
RF [Redacted] (Forms 14/15/16SE)	[Redacted]	[Redacted]	\$619,833.05
Electric Meters with Communication Modules			
Routers	[Redacted]	[Redacted]	\$1,383,300.00
1 Radio Network Gateway	[Redacted]	[Redacted]	\$1,789,300.00
3 Radio Network Gateway	[Redacted]	[Redacted]	\$101,500.00
Total:			\$66,935,688.00

Redacted



Clarifications

Electric Meters with Communication Modules

1. Additional electric meter options are as follows:

Meter Options	Price
ANSI C12.18 Opti-Com Magnetic Port Short Cover	
ANSI C12.18 Opti-Com Magnetic Port + Reconnect Arming Button Short Cover (Only)	
ANSI C12.18 Opti-Com Magnetic Port + Demand Reset Tall Cover	
Extended Outage Holdup with	

2. pricing for the entries in the table above are applicable during a mutually agreed upon deployment project.
3. The attached pricing estimates are governed by mutually agreed upon Terms and Conditions between and PPL for the Rhode Island Energy project.
4. are not included in the attached pricing.

Network Equipment

5. Network Equipment quantities are approximations of required quantities and have been developed from the 531,882 electric meter locations provided by Customer.
6. Network Equipment quantities are based on Routers being mounted at above ground level (AGL). Alternate mounting locations, configurations and heights may require additional brackets, cables or antennas that are not included in this proposal. Actual Network Equipment quantities necessary for proper AMI System functionality may vary based on verification of final meter quantities, system analysis and requirements, approved survey locations, deployment approach, and system optimization needs.
7. Network Equipment quantities assume standard RF AMI throughput parameters:
 - Up to of 15-minute interval data transmitted every 4 hours from all residential electric Endpoints.

Redacted



- Up to [REDACTED] of 15-minute interval data transmitted every 60 minutes from all commercial and industrial electric endpoints.
- Support PPL requested Network design input
 - The electric and DER design is based on an average of [REDACTED] and maximum of [REDACTED].
 - Electric Meters: [REDACTED] Channels and DER presenting [REDACTED] inverter data points.
 - Any Gateways with [REDACTED] or more electric devices requires a redundant gateway path.
 - [REDACTED] DER devices
- 8. Electric endpoints shall be deployed in a contiguous manner to enable adequate meshing.
- 9. Customer will provide WAN backhaul access to each Network Gateway. As an alternative, [REDACTED] is able to offer our [REDACTED] cellular solution for backhaul. If Customer chooses to elect [REDACTED] backhaul services, a [REDACTED] agreement is required, and pricing can be provided upon request.
- 10. Customer will provide new or existing poles, of an appropriate height, with 120/240V power source for installation of network equipment.
- 11. The need for external passive antennas, and quantities of such, will be determined during deployment.

General Clarifications

- 12. Pricing does not include any software ([REDACTED], MDMS, [REDACTED], etc.). Software quote is provided separately.
- 13. Standard lead time for product shipment can vary, and upon receipt and confirmation of your purchase order, an estimated shipment date will be provided.
- 14. Licenses sold as part of this solution are for [REDACTED] products only. Any additional third-party licenses are the responsibility and at the expense of Customer.
- 15. This quote is valid for 90 days.
- 16. [REDACTED] standard equipment (Network Gateway, Router, electric meter) warranty for defects in material or workmanship is [REDACTED] months from the date of shipment. [REDACTED] warrants that its software will materially comply with the software documentation provided for a period of [REDACTED] days from the date of delivery. [REDACTED] warrants that Services will be provided in a professional workmanlike manner and the services warranty period is [REDACTED] after performing a service.
- 17. On-site services and in-person training are subject to COVID-19 travel restrictions.
- 18. [REDACTED] pricing is subject to change due to any annual increase in CPI.
- 19. No bonds or letters of credit are included in [REDACTED] pricing.
- 20. While [REDACTED] endeavors to make the content of its marketing materials timely and accurate, [REDACTED] makes no claims or promises about the accuracy, adequacy, or completeness of, and

Redacted



expressly disclaims liability for errors and omissions in, such materials. No warranty of any kind, express, implied, or statutory, including without limitation warranties of non-infringement of third-party rights, title, merchantability, and fitness for a particular purpose, is provided in connection with the content of such marketing materials.


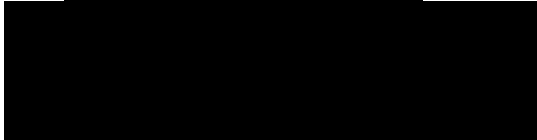
21. This proposal contains confidential and trade secret information of [REDACTED]. Except as otherwise specified in a non-disclosure agreement regarding [REDACTED] confidential information, [REDACTED] authorizes use and disclosure of the content of this proposal only as necessary for evaluation of [REDACTED] proposal, or as required by law. No other license rights are intended or implied.

We look forward to taking this next step with you and welcome the opportunity to further define a [REDACTED] solution to address your needs. If you have any questions, please contact [REDACTED] at [REDACTED] or [REDACTED]

Sincerely,



Redacted

April 24, 2023

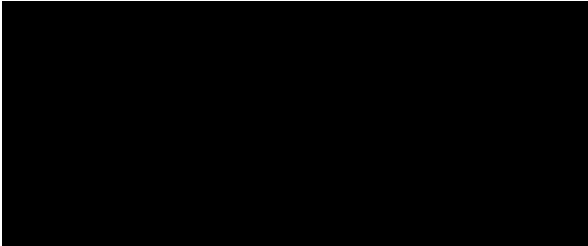
Attention: Phil Walnock
PPL Electric Utilities
2 N. Ninth Street
Allentown, PA 18101

Subject: Form 2SE Meter

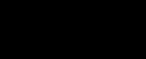
Dear Mr. Walnock,

The price of the Form 2SE meter in the hardware letter dated December 7, 2022, contains a service disconnect. In error, we did not label that line item with "2SE-SD" to reflect that it contains a service disconnect. The CL320 meter without a disconnect price is represented in the line item for Form 14, 15, 16SE in the hardware letter.

Best Regards,



PPL EU



Response Summary - Clarification
Proprietary & Confidential Information

In Re: Rhode Island Energy Advanced Metering Functionality Business Case and
Cost Recovery Program
Responses to the Division's Fifth Set of Data Requests
Issued on April 18, 2023

Division 5-2

Request:

What is the price of the single phase 200 ampere meter being purchased with and without the remote disconnect/reconnect feature?

Response:

See Attachment DIV 5-1-1 Confidential. The price of the single phase 200 ampere meter with the remote disconnect/reconnect feature is the quoted price for Form 2S-SD. The price of the single phase 200 ampere meter without the remote disconnect/reconnect feature is the quoted price for Forms 1S, 2S, 3S, 3SC, 4S.

The Narragansett Electric Company

d/b/a Rhode Island Energy

Docket No. 22-49-EL

In Re: Rhode Island Energy Advanced Metering Functionality Business Case and

Cost Recovery Program

Responses to the Division's Fifth Set of Data Requests

Issued on April 18, 2023

Division 5-3

Request:

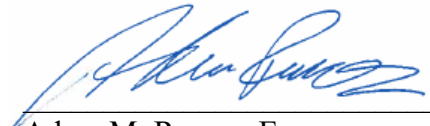
What is the price of a 320-ampere single phase meter being purchased with and without the remote disconnect/reconnect feature?

Response:

See Attachment DIV 5-1-1 Confidential. The price of the single phase 320 ampere meter with the remote disconnect/reconnect feature is the quoted price for Form 2SE. The price of the single phase 320 ampere meter without the remote disconnect/reconnect feature is the quoted price for Forms 14/15/16SE.

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 27th 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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