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December 2, 2024

In the Matter of the Petition of
Public Service Electric and Gas Company for
Approval of its Clean Energy Future-Energy Cloud (CEF-EC)
Program on a Regulated Basis
BPU Docket No. EO18101115

VIA ELECTRONIC MAIL

Stacy Peterson
Deputy Executive Director
New Jersey Board of Public Utilities
44 South Clinton Ave.
P.O. Box 350
Trenton, NJ 08625

Brian Lipman
Director
New Jersey Division of Rate Counsel
140 East Front Street, 4th Floor
P.O. Box 003
Trenton, NJ 08625

**Re: Advanced Metering Infrastructure (AMI) Program - Semi Annual Reports
to the Board of Public Utilities for the Periods of January 1, 2021 through
December 31, 2023**

Dear Ms. Peterson and Mr. Lipman:

Pursuant to the Board's January 7, 2021 Order in the above referenced matter, enclosed are revised versions of Public Service Electric and Gas Company's ("PSE&G") Advanced Meter Infrastructure ("AMI") Program's semi-annual reports covering the periods of January 1, 2021 through December 31, 2023. Revisions can be found on page 2 of each report, and address PSE&G's inadvertent inclusion of figures showing all meter installations during each reporting period, instead of only those meter installations pursuant to the AMI Program. No other figures—including reported costs—were revised. For the convenience of the parties, all revisions are included in redline.

Copies of the CEF-EC AMI Semi-Annual Reports, January 1, 2021 through December 31, 2023 will be served upon all entities legally required to be noticed. Service will occur via e-mail, only,

pursuant to the Board's March 19, 2020 Order in Docket No. EO20020254.¹ In addition, the reports will be posted at www.pseg.com/ev.

Please advise if you have any questions or comments.

Very truly yours,

A handwritten signature in blue ink that reads "Katherine E. Smith". The signature is fluid and cursive, with a long horizontal stroke at the end.

Katherine Smith

C: Carol Artale
Alice Bator
Cindy Bianco
David Brown
Robert Brabston
Aida Camacho
Charles Gurkas
Scott Hunter
Sherri Jones
Bart Kilar
Christine Lin
Paul Lupo
Sri Medicherla
Jackie O'Grady
Stacy Richards
Christine Sadovy
Abe Silverman
Benjamin Witherell
Tylise Hyman
Christine Juarez
Debora Layugan
Kurt Lewandowski
Maria Novas-Ruiz
Henry Odgen
Brian Weeks

¹ In the Matter of the New Jersey Board of Public Utilities' Response to the Covid-19 Pandemic for a Temporary Waiver of Requirements for Certain Non-Essential Obligations, Docket No. EO20030254, p.3 (March 19, 2020 Order).



**Clean Energy Futures-Energy Cloud Advanced Metering
Infrastructure (AMI) Program**

Semi-Annual Report to the Board of Public Utilities

For the period January 1, 2021-June 30, 2021

Revised Version

Reporting Metric Tables:

Metric Description	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Current Reporting Period 1/1/2021 - 6/30/2021	Project to Date
Residential Meters Installed	17	1,975 1,852	3,613 3,383	4,177 3,986	6,457 6,166	6,880 6,555	23,119 21,959	23,119 21,959
		See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I
Commercial Meters Installed	2 1	63 52	169 133	314 268	861 793	1,151 1,037	2,560 2,284	2,560 2,284
	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I
Poles Installed	0	0	0	0	0	0	0	See Note A
Three-radio Network gateways installed	0	0	0	0	0	0	0	See Note A
Single-radio Network gateways installed	0	0	0	0	0	0	0	See Note A
Routers Installed	0	0	0	0	0	0	0	See Note A
Percentage of Network Communicating to L+G Platform	0	0	0	0	0	0	0	See Note B
Total number of opt-out customers	1	11	28	41	56	65	65	65
Number of actual reads recorded from AMI meters each month		997,135	1,239,155	1,431,373	1,815,845	2,204,059	7,687,567	See Note C
Number of meter readers employed by PSE&G each month	357	359	387	416	442	419		
Number of customers who have accessed the AMI web portal	1,083	906	1,149	1,232	1,220	1,232	6,822	6,822
Number of customers identified to have received energy saving messaging	1,817,845	2,725,974	2,550,372	1,553,621	219,038	1,524,373	10,391,223	10,391,223
Number of customers who have authorized third party supplier access to their energy usage data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note D
Third Party Program-to-date customer engagement efforts undertaken by the Company	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note E
Number of AMI meters replaced due to functioning errors	0	0	0	0	0	1	1	1
Number of remote connects/disconnects performed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note F
Number of AMI meter tampering cases found	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note G
Estimated CEF-EC project completion date							12/31/2024	12/31/2024

N/A – Not applicable at this stage of the AMI Program

Average Installation Costs			Current Reporting Period 1/1/2021 - 6/30/2021	Project to Date
Average Cost Residential Meters Installed -Total			\$215.91	\$215.91
Average Cost Residential Meters Installed - Labor			\$99.88	\$99.88
Average Cost Residential Meters Installed - Materials			\$116.03	\$116.03
Average Cost Commercial Meters Installed - Total			\$268.83	\$268.83
Average Cost Commercial Meters Installed - Labor			\$128.03	\$128.03
Average Cost Commercial Meters Installed - Materials			\$140.80	\$140.80
Capital and O&M Costs	FORECAST		ACTUALS	
	Current Reporting Period 1/1/2021 - 6/30/2021	Project to Date	Current Reporting Period 1/1/2021 - 6/30/2021	Project to Date
CEF-EC Capital Costs - Total	\$8.56M	\$8.56M	\$9.82M	\$9.82M
CEF-EC Capital Costs - Labor	\$.57M	\$.57M	\$4.45M	\$4.45M
CEF-EC Capital Costs - Material	\$1.13M	\$1.13M	\$3.06M	\$3.06M
CEF-EC Capital Costs - Other	\$6.86M	\$6.86M	\$2.31M	\$2.31M
CEF-EC O&M Expenses - Total	\$3.34M	\$3.34M	\$870K	\$870K
CEF-EC O&M Expenses - Labor	\$0	\$0	\$500K	\$500K
CEF-EC O&M Expenses - Material	\$0	\$0	\$0	\$0
CEF-EC O&M Expenses - Other	\$3.34M	\$3.34M	\$370K	\$370K
Stranded Costs Deferred			N/A	See Note H

N/A – Not applicable at this stage of the AMI Program

Reporting Metric Notes:

A. Network Installation

Estimated Quantity of Work: 161 new poles and three radio gateways, 47 single-radio network gateways and 2207 routers are estimated to be installed beginning in July 2021 with completion by mid-2022 to support the expansion of the existing RF Network

B. Percentage of Network Communicating to L+G Platform

Estimated Quantity of Work: 100% installation of network to be completed by mid-2022

C. Actual Reads Recorded from AMI Meters

Actual read number is inclusive of large commercial AMI meters installed prior to start of current AMI Project

D. Customers who have authorized third party supplier access to their energy usage data

The development of a Data Access Plan has been deferred pending the statewide proceeding in Docket No. EO20110716. On August 23, 2021, in that docket, the BPU issued a Straw Proposal on Advanced Metering Infrastructure (AMI) Data Transparency, Privacy & Billing, and has sought written comment from all interested parties by October 7, 2021. Per that August 23, 2021 notice, after submission of comments, Board Staff anticipates having one or more stakeholder meetings to discuss that feedback and, once all feedback is received, Staff expects to recommend that the Board approve an MFR order on data access, among other things, which will be followed by a rulemaking proceeding to codify the requirements placed on each electric public utility with an AMI deployment plan. PSE&G is participating in that Board Staff proceeding.

E. Third Party Customer Engagement Efforts

PSE&G has utilized social media outlets for third party customer engagement efforts to date. The activities and results are as follows:

1. Published 17 messages:

- a) *2 paid Facebook ads,*
- b) *15 organic messages on Facebook, Twitter and LinkedIn:*
 - (1) *5 on Facebook,*
 - (2) *9 on Twitter,*
 - (a) *7 on PSEGDelivers,*
 - (b) *2 on PSEGNews.*
- c) *1 on LinkedIn*

2. Channel followers (as of July 2021):

- a) *Facebook: 116,659*
- b) *PSEGDelivers (Twitter): 101,704 followers*
- c) *PSEGNews (Twitter): 20,418*
- d) *LinkedIn: 55,182*

3. The social media posts generated:

- a) *2,355,520 impressions (how many times an AMI social message was displayed),*
- b) *Reached 797,462 Facebook users*

F. Remote Connects/Disconnects Performed

Use case not yet implemented.

G. AMI Metering Tampering Cases

Use case not yet implemented.

H. Stranded Costs Deferred

Expected to be available for next reporting period.

I. Revision Regarding Meters Installed.

The Monthly, the Current Reporting Period, and the 'Project to date 1/7/2021 to 6/30/2021' data figures for line items related to 'residential meters installed' and 'commercial meters installed' was revised.



Clean Energy Future-Energy Cloud
Advanced Metering Infrastructure (AMI) Program
Semi-Annual Report to the Board of Public Utilities
For the period July 1, 2021-December 31, 2021
Revised Version

Reporting Metric Tables:

Metric Description	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Current Reporting Period 7/1/2021-12/31/2021	Project to Date 1/7/2021 - 12/31/2021
Residential Meters Installed	7,538	8,720	8,663	12,558	6,394	6,007	49,880	72,999
	7,325	8,465	8,358	12,253	6,221	5,809	48,431	70,390
	See Note J	See Note J	See Note J	See Note J	See Note J	See Note J	See Note J	See Note J
Commercial Meters Installed	973	1,542	1,815	2,322	2,428	2,029	11,109	13,669
	867	1,407	1,704	2,178	2,286	1,906	10,348	12,632
	See Note J	See Note J	See Note J	See Note J	See Note J	See Note J	See Note J	See Note J
Poles Installed	0	0	0	11	14	32	57	57
Three-radio Network gateways installed	0	0	0	10	10	11	31	31
Single-radio Network gateways installed	0	0	0	0	21	3	24	24
Routers Installed	14	236	167	374	483	475	1,749	1,749
Percentage of Network Communicating to L+G Platform	0.64%	12.36%	20.61%	40.14%	66.24%	91.99%	91.99%	91.99%
Total number of opt-out customers	98	111	117	120	128	135	135	135
Number of actual reads recorded from AMI meters each month	2,697,426	3,280,196	3,721,308	4,659,650	5,203,311	6,189,795	25,751,686	See Note C
Number of meter reading staff employed by PSE&G each month	421	415	405	386	363	362		See Note D
Number of customers who have accessed the AMI web portal	1,844	1,539	1,789	1,627	1,149	1,378	9,326	16,148
Number of customers identified to have received energy saving messaging	149,173	19,383	1,638,684	2,277,086	2,307,772	11,581	6,403,679	16,794,902
Number of customers who have authorized third party supplier access to their energy usage data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note E
Third Party Program-to-date customer engagement efforts undertaken by the Company	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note F
Number of AMI meters replaced due to functioning errors	0	0	2	1	0	0	3	4
Number of remote connects/disconnects performed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note G
Number of AMI meter tampering cases found	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note H
Estimated CEF-EC project completion date							12/31/2024	12/31/2024

N/A – Not applicable at this stage of the AMI Program

Average Installation Costs			Current Reporting Period 7/1/2021-12/31/2021	Project to Date 1/7/2021 - 12/31/2021
Average Cost Residential Meters Installed –Total			\$190	\$198
Average Cost Residential Meters Installed – Labor			\$75	\$83
Average Cost Residential Meters Installed – Materials			\$115	\$115
Average Cost Commercial Meters Installed – Total			\$242	\$248
Average Cost Commercial Meters Installed – Labor			\$ 88	\$97
Average Cost Commercial Meters Installed – Materials			\$154	\$51
	FORECAST		ACTUALS	
Metric Description (Cost Info.)	Current Reporting Period 7/1/2021-12/31/2021	Project to Date 1/7/2021 - 12/31/2021	Current Reporting Period 7/1/2021-12/31/2021	Project to Date 1/7/2021 - 12/31/2021
CEF-EC Capital Costs - Total	\$29.40M	\$39.22M	\$23.38M	\$33.20M
CEF-EC Capital Costs - Labor	\$12.50M	\$16.95M	\$7.28M	\$11.74M
CEF-EC Capital Costs - Material	\$7.99M	\$11.04M	\$8.01M	\$11.07M
CEF-EC Capital Costs - Other	\$8.92M	\$11.23M	\$8.08M	\$10.39M
CEF-EC Deferred O&M Expenses - Total	\$0.87M	\$10.03M	\$3.32M	\$4.19 M
CEF-EC Deferred O&M Expenses - Labor	\$0.50M	\$2.37M	\$(0.50)M	\$0.00M
CEF-EC Deferred O&M Expenses - Material	N/A	N/A	\$0.57M	\$0.57M
CEF-EC Deferred O&M Expenses - Other	\$0.37M	\$7.65M	\$3.24M	\$3.62M
Stranded Costs Deferred	N/A	N/A	See Note I	See Note I

N/A – Not applicable at this stage of the AMI Program

Reporting Metric Notes:

A. Network Installation

Estimated Quantity of Work: 161 new poles and three radio gateways, 47 single-radio network gateways and 2207 routers are estimated to be installed beginning in July 2021 with completion by mid-2022 to support the expansion of the existing RF Network

B. Percentage of Network Communicating to L+G Platform

Estimated Quantity of Work: 100% installation of network to be completed by mid-2022

C. Actual Reads Recorded from AMI Meters

Actual read number is inclusive of large commercial AMI meters installed prior to start of current AMI Project

D. Meter reading staff includes bargaining unit meter readers and supervisory staff

E. Customers who have authorized third party supplier access to their energy usage data

The development of a Data Access Plan has been deferred pending the statewide proceeding in Docket No. EO20110716. On August 23, 2021, in that docket, the BPU issued a Straw Proposal on Advanced Metering Infrastructure (AMI) Data Transparency, Privacy & Billing, and sought written comment from all interested parties by October 7, 2021. Per that August 23, 2021 notice, after submission of comments, Board Staff anticipates having one or more stakeholder meetings to discuss that feedback and, once all feedback is received, Staff expects to recommend that the Board approve an MFR order on data access, among other things, which will be followed by a rulemaking proceeding to codify the requirements placed on each electric public utility with an AMI deployment plan. PSE&G is participating in that Board Staff proceeding.

F. Third Party Customer Engagement Efforts

PSE&G has utilized social media outlets for third party customer engagement efforts to date. The activities and results are as follows:

1. Published 6 messages:

- a) *6 organic messages on Facebook, Twitter and LinkedIn:*
 - (1) 1 on Facebook,
 - (2) 4 on Twitter,
 - (a) 3 on PSEGDelivers,
 - (b) 1 on PSEGNews.
 - (3) 1 on LinkedIn.

2. Channel followers (as of December 2021):

- a) *Facebook: 118,251*
- b) *PSEGDelivers (Twitter): 101,942*
- c) *PSEGNews (Twitter): 20,673*
- d) *LinkedIn: 57,213*

3. The social media posts generated:

- a) *18,523 impressions (how many times an AMI social message was displayed),*
- b) *Reached 7,242 Facebook users*

G. Remote Connects/Disconnects Performed

Use case not yet implemented

H. AMI Metering Tampering Cases

Use case not yet implemented.

I. Stranded Costs Deferred

Expected to be available in future reports.

J. Revision Regarding Meters Installed.

The Monthly, the Current Reporting Period, and the 'Project to date 1/7/2021 to 12/31/2021' data figures for line items related to 'residential meters installed' and 'commercial meters installed' was revised.



**Clean Energy Future-Energy Cloud Advanced Metering
Infrastructure (AMI) Program**

Semi-Annual Report to the Board of Public Utilities

For the period January 1, 2022-June 30, 2022

Revised Version

Reporting Metric Tables:

Metric Description	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Current Reporting Period 1/1/2022-6/30/2022	Project to Date 1/7/2021 - 6/30/2022
Residential Meters Installed	6,596 <u>6,424</u> See Note J	7,537 <u>7,344</u> See Note J	8,744 <u>8,425</u> See Note J	8,064 <u>7,767</u> See Note J	8,444 <u>8,124</u> See Note J	17,280 <u>16,855</u> See Note J	56,665 <u>54,939</u> See Note J	129,664 129,738 <u>125,329</u> See Note J
Commercial Meters Installed	2,367 <u>2,222</u> See Note J	2,474 <u>2,346</u> See Note J	3,910 <u>3,731</u> See Note J	4,188 <u>3,986</u> See Note J	3,969 <u>3,805</u> See Note J	4,027 <u>3,878</u> See Note J	20,935 <u>19,968</u> See Note J	45,713 34,661 <u>32,600</u> See Note J
Poles Installed	9	29	40	11	1	0	90	159 See Note A
Three-radio Network gateways installed	13	38	50	17	5	4	127	159 See Note A
Single-radio Network gateways installed	28	1	0	0	0	0	29	53 See Note A
Routers Installed	338	69	0	14	58	0	479	2,207 See Note A
Percentage of Network Communicating to L+G Platform	89.40%	93.90%	95.96%	97.30%	99.90%	100.00%	100.00%	100.00% See Note B
Number of opt-out customers	12	7	5	4	34	34	96	231
Number of actual reads recorded from AMI meters each month	6,445,369	6,104,754	7,669,478	8,417,578	8,958,500	9,802,700	47,398,379	See Note C
Number of meter reading staff employed by PSE&G each month	366	390	446	449	475	463	See Note D	See Note D
Number of total visits by customers to AMI portal.	1,626	1,273	1,354	1,413	1,499	2,589	9,754	25,902
Number of customers receiving energy saving messages.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note E
Number of customers who have authorized third party supplier access to their energy usage data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note F
Third Party Program-to-date customer engagement efforts undertaken by the Company	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note G
Number of AMI meters replaced due to functioning errors	0	0	0	6	6	6	18	21
Number of remote connects/disconnects performed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note H
Number of AMI meter tampering cases found	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note I
Estimated CEF-EC project completion date							12/31/2024	12/31/2024

N/A – Not applicable at this stage of the AMI Program

Average Installation Costs			Current Reporting Period 1/1/2022-6/30/2022	Project to Date 1/7/2021 - 06/30/2022
Average Cost Residential Meters Installed –Total			\$250	\$220
Average Cost Residential Meters Installed – Labor			\$136	\$104
Average Cost Residential Meters Installed – Materials			\$114	\$116
Average Cost Commercial Meters Installed – Total			\$335	\$298
Average Cost Commercial Meters Installed – Labor			\$144	\$118
Average Cost Commercial Meters Installed – Materials			\$190	\$180

Metric Description (Cost Info.)	FORECAST		ACTUALS	
	Current Reporting Period 1/1/2022-6/30/2022	Project to Date 1/7/2021 - 06/30/2022	Current Reporting Period 1/1/2022-6/30/2022	Project to Date 1/7/2021 - 06/30/2022
CEF-EC Capital Costs - Total	\$34.45M	\$67.65M	\$31.85M	\$65.04M
CEF-EC Capital Costs - Labor	\$8.96M	\$20.7M	\$10.23M	\$22.26M
CEF-EC Capital Costs – Material	\$12.68M	\$23.75M	\$10.95M	\$22.01M
CEF-EC Capital Costs – Other	\$12.81M	\$23.2M	\$10.67M	\$20.77M
CEF-EC Deferred O&M Expenses - Total	\$5.66M	\$9.85M	\$5.88M	\$10.07 M
CEF-EC Deferred O&M Expenses - Labor	\$2.36M	\$2.36M	\$0.46M	\$0.46M
CEF-EC Deferred O&M Expenses – Material	\$0.20M	\$0.77M	N / A	\$0.57M
CEF-EC Deferred O&M Expenses – Other	\$3.1M	\$6.72M	\$5.42M	\$9.04M
Stranded Costs Deferred	N / A	N / A	\$28.07M	\$28.07M

N/A – Not applicable at this stage of the AMI Program

Reporting Metric Notes:

A. Network Installation

Estimated Quantity of Work: 159 new poles and three radio gateways, 53 single-radio network gateways and 2,207 routers have been installed to support the expansion of the existing RF Network.

B. Percentage of Network Communicating to L+G Platform

Estimated Quantity of Work: Network installation has completed.

C. Actual Reads Recorded from AMI Meters

Actual read number is inclusive of large commercial AMI meters installed prior to start of current AMI Project.

D. Meter Reading Staff

Meter reading staffing fluctuates for various reasons. Permanent Meter Readers continue to decline month over month via natural attrition. Additional temporary Meter Reading staff have been hired to support Collection activities and vacations.

E. Number of customers receiving energy saving messages

Reports issued on September 1, 2021 and March 1, 2022 reported data based on all PSE&G electric customers who had received energy saving messages. In this report and subsequent reports, this metric will indicate how many PSE&G electric customers with AMI meters have received messages based on the implementation of use cases 1, 2, 3, 4, 5 and 7. Use cases not yet implemented.

F. Customers who have authorized third party supplier access to their energy usage data

The development of a Data Access Plan has been deferred pending the statewide proceeding in Docket No. EO20110716. PSE&G is participating in that Board Staff proceeding.

G. Third Party Customer Engagement Efforts

PSE&G has utilized social media outlets for third party customer engagement efforts to date. The activities and results are as follows:

1. Published 4 messages::

- a) *4 organic messages on Facebook, Twitter, and LinkedIn:*
 - (1) 2 on Facebook,
 - (2) 2 on Twitter,
 - (a) 1 on PSEGDelivers,
 - (b) 1 on PSEGNews.

2. Channel followers (as of June 2022):

- a) *Facebook: 118,384*
- b) *PSEGDelivers (Twitter): 102,165*
- c) *PSEGNews (Twitter): 20,860*

3. The social media posts generated:

- a) *16,224 impressions (how many times an AMI social message was displayed),*
- b) *Reached 14,009 Facebook users.*

H. Remote Connects/Disconnects Performed

Use case not yet implemented.

I. AMI Metering Tampering Cases

Use case not yet implemented.

J. Revision Regarding Meters Installed.

The Monthly, the Current Reporting Period, and the 'Project to date 1/7/2021 to 6/30/2022' data figures for line items related to 'residential meters installed' and 'commercial meters installed' was revised.



Clean Energy Future-Energy Cloud
Advanced Metering Infrastructure (AMI) Program
Semi-Annual Report to the Board of Public Utilities
For the period July 1, 2022 - December 31, 2022
Revised Version

Reporting Metric Tables:

Metric Description	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Current Reporting Period 7/1/2022-12/31/2022	Project to Date 1/7/2021 - 12/31/2022
Residential Meters Installed	25,488 <u>24,933</u>	32,331 <u>31,673</u>	28,198 <u>27,633</u>	42,597 <u>41,786</u>	63,856 <u>62,844</u>	68,761 <u>67,852</u>	261,231 <u>256,721</u>	390,972 <u>382,050</u>
	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I
	3,870 <u>3,730</u>	5,765 <u>5,568</u>	5,839 <u>5,588</u>	6,779 <u>6,570</u>	7,248 <u>7,049</u>	7,381 <u>7,181</u>	36,882 <u>35,686</u>	71,563 <u>68,286</u>
Commercial Meters Installed	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I	See Note I
								See Note A
Network Installed								See Note A
Number of opt-out customers	31	135	200	468	499	351	1,684	1,912
Number of actual reads recorded from AMI meters each month	11,352,467	13,279,195	15,337,058	18,485,408	21,330,381	27,508,752	107,293,261	See Note B
Number of meter reading staff employed by PSE&G each month	449	408	395	371	356	338	See Note C	See Note C
Number of total visits by customers to AMI portal.	2,254	1,412	2,430	2,305	1,574	1,738	11,713	38,613
Number of unique monthly Log-in's to AMI portal.	110	121	106	124	117	108	686	N/A
Number of customers receiving energy saving messages.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note D
Number of customers who have authorized third party supplier access to their energy usage data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note E
Third Party Program-to-date customer engagement efforts undertaken by the Company	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note F
Number of AMI meters replaced due to functioning errors	8	11	16	14	31	50	130	152
Number of remote connects/disconnects performed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note G
Number of AMI meter tampering cases found	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note H
Estimated CEF-EC project completion date							12/31/2024	12/31/2024

N/A – Not applicable at this stage of the AMI Program

Average Installation Costs (Per Unit Cost in USD)			Current Reporting Period 7/1/2022-12/31/2022	Project to Date 1/7/2021 - 12/31/2022
Average Cost Residential Meters Installed –Total			\$201	\$219
Average Cost Residential Meters Installed – Labor *(1)			\$100	\$113
Average Cost Residential Meters Installed – Materials			\$101	\$106
Average Cost Commercial Meters Installed – Total			\$270	\$285
Average Cost Commercial Meters Installed – Labor *(1)			\$117	\$123
Average Cost Commercial Meters Installed – Materials			\$153	\$162

Metric Description (USD in Millions)	FORECAST		ACTUALS	
	Current Reporting Period 7/1/2022-12/31/2022	Project to Date 1/7/2021 - 12/31/2022	Current Reporting Period 7/1/2022-12/31/2022	Project to Date 1/7/2021 - 12/31/2022
CEF-EC Capital Costs - Total	\$49.2M	\$116.9M	\$66.4M	\$130.8M
CEF-EC Capital Costs - Labor *(2)	\$10.98M	\$31.68M	\$9.4M	\$30.8M
CEF-EC Capital Costs – Material	\$19.78M	\$43.53M	\$32.8M	\$55.3M
CEF-EC Capital Costs – Other *(3)	\$18.5M	\$41.7M	\$24.2M	\$44.7M
CEF-EC Deferred O&M Expenses - Total	\$5.7M	\$15.5M	\$10.0M	\$20.0M
CEF-EC Deferred O&M Expenses - Labor *(2)	\$2.58M	\$4.94M	\$3.7M	\$4.1M
CEF-EC Deferred O&M Expenses – Material		\$0.77M		\$0.6M
CEF-EC Deferred O&M Expenses – Other *(3)	\$3.1M	\$9.82M	\$6.3M	\$15.3M
Stranded Costs Deferred			\$26.8M	\$54.8M

*(1) Average Installation costs - Internal and External Labor.

*(2) Labor - Internal PSE&G Labor.

*(3) Other - Includes all contractors and Outside services.

Reporting Metric Notes:

A. Network Installation

Network Complete: 159 new poles and three radio gateways, 53 single-radio network gateways and 2207 routers have been installed to support the expansion of the existing RF Network

B. Actual Reads Recorded from AMI Meters

Actual read number is inclusive of large commercial AMI meters installed prior to start of current AMI Project.

C. Meter Reading Staff

Meter reading staffing fluctuates for various reasons. Permanent Meter Readers continue to decline month over month via natural attrition. Additional temporary Meter Reading staff have been hired to support Collection activities and vacations.

D. Number of customers receiving energy saving messages

Reports issued on September 1, 2021 and March 1, 2022 reported data based on all PSE&G electric customers who had received energy saving messages. In this report and subsequent reports, this metric will indicate how many PSE&G electric customers with AMI meters have received messages based on the implementation of use cases 1, 2, 3, 4, 5 and 7. Use cases not yet implemented.

E. Customers who have authorized third party supplier access to their energy usage data

The development of a Data Access Plan has been deferred pending the statewide proceeding in Docket No. EO20110716. PSE&G is participating in that Board Staff proceeding.

F. Third Party Customer Engagement Efforts

PSE&G has utilized social media outlets for third party customer engagement efforts to date. The activities and results are as follows:

1. Published 0 messages:

- a) *0 organic messages on Facebook, Twitter and LinkedIn:*
 - (1) 0 on Facebook,
 - (2) 0 on Twitter,
 - (a) 0 on PSEGDelivers,
 - (b) 0 on PSEGNews.

2. Channel followers (as of December 2022):

- a) *Facebook: 121K*
- b) *PSEGDelivers (Twitter): 101K*
- c) *PSEGNews (Twitter): 21K*

3. The social media posts generated:

- a) *0 impressions (how many times an AMI social message was displayed),*
- b) *Reached 0 Facebook users*

G. Remote Connects/Disconnects Performed

Use case not yet implemented.

H. AMI Metering Tampering Cases

Use case not yet implemented.

I. Revision Regarding Meters Installed.

The Monthly, the Current Reporting Period, and the 'Project to date 1/7/2021 to 12/31/2022' data figures for line items related to 'residential meters installed' and 'commercial meters installed' was revised.



**Clean Energy Future-Energy Cloud Advanced Metering
Infrastructure (AMI) Program**

Semi-Annual Report to the Board of Public Utilities

For the period January 1, 2023 – June 30, 2023

Revised Version

Reporting Metric Tables:

Metric Description	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Current Reporting Period 1/1/2023 - 6/30/2023	Project to Date 1/7/2021 - 6/30/2023
Residential Meters Installed	80,150 <u>79,051</u> See Note I	76,707 <u>75,702</u> See Note I	85,227 <u>83,948</u> See Note I	79,610 <u>78,651</u> See Note I	83,894 <u>82,875</u> See Note I	80,954 <u>80,077</u> See Note I	486,542 <u>480,304</u> See Note I	877,514 <u>862,354</u> See Note I
Commercial Meters Installed	10,148 <u>9,942</u> See Note I	8,797 <u>8,653</u> See Note I	12,181 <u>11,974</u> See Note I	9,476 <u>9,317</u> See Note I	12,196 <u>12,020</u> See Note I	8,792 <u>8,658</u> See Note I	61,590 <u>60,564</u> See Note I	133,153 <u>128,850</u> See Note I
Network Installed								See Note A
Number of opt-out customers	414	371	571	622	428	239	2,645	4,557
Number of actual reads recorded from AMI meters each month	29,425,887	31,276,962	37,330,599	45,059,057	49,170,579	54,147,479	246,410,563	See Note B
Number of meter reading staff employed by PSE&G each month	332	312	295	302	331	325	See Note C	See Note C
Number of total visits by customers to AMI portal.	1,961	1,349	1,906	1,728	1,956	1,781	10,681	49,294
Number of unique monthly Log-in's to AMI portal.	131	128	142	116	134	135	786	N/A
Number of customers receiving energy saving messages.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note D
Number of customers who have authorized third party supplier access to their energy usage data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note E
Third Party Program-to-date customer engagement efforts undertaken by the Company	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note F
Number of AMI meters replaced due to functioning errors	32	7	3	9	7	17	75	227
Number of remote connects/disconnects performed	0	0	0	0	0	0	0	See Note G
Number of AMI meter tampering cases found	0	8	2	2	5	1	18	See Note H
Estimated CEF-EC project completion date							12/31/2024	12/31/2024

N/A – Not applicable at this stage of the AMI Program

Average Installation Costs (Per Unit Cost in USD)			Current Reporting Period 1/1/20223- 6/30/2023	Project to Date 1/7/2021 - 6/30/2023
Average Cost Residential Meters Installed –Total			\$175	\$194
Average Cost Residential Meters Installed – Labor *(1)			\$58	\$82
Average Cost Residential Meters Installed – Materials			\$117	\$112
Average Cost Commercial Meters Installed – Total			\$256	\$272
Average Cost Commercial Meters Installed – Labor *(1)			\$89	\$108
Average Cost Commercial Meters Installed – Materials			\$167	\$164

Metric Description (USD in Millions)	FORECAST		ACTUALS	
	Current Reporting Period 1/1/2023- 6/30/2023	Project to Date 1/7/2021 - 6/30/2023	Current Reporting Period 1/1/2023- 6/30/2023	Project to Date 1/7/2021 - 6/30/2023
CEF-EC Capital Costs - Total	\$114.1M	\$244.9M	\$114.7M	\$245.5M
CEF-EC Capital Costs - Labor *(2)	\$10.0M	\$40.8M	\$8.8M	\$39.6M
CEF-EC Capital Costs – Material	\$54.9M	\$110.1M	\$61.3M	\$116.5M
CEF-EC Capital Costs – Other *(3)	\$49.2M	\$93.9M	\$44.6M	\$89.3M
CEF-EC Deferred O&M Expenses - Total	\$12.2M	\$32.2M	\$8.0M	\$28.0M
CEF-EC Deferred O&M Expenses - Labor *(2)	\$3.2M	\$7.3M	\$1.5M	\$5.6M
CEF-EC Deferred O&M Expenses – Material		\$0.6M		\$0.6M
CEF-EC Deferred O&M Expenses – Other *(3)	\$9.0M	\$24.3M	\$6.5M	\$21.8M
Stranded Costs Deferred			\$27.0M	\$81.8M

*(1) Average Installation costs - Internal and External Labor.

*(2) Labor - Internal PSE&G Labor.

*(3) Other - Includes all contractors and Outside services.

Reporting Metric Notes:

A. Network Installation

Network Complete: 159 new poles and three radio gateways, 53 single-radio network gateways and 2207 routers have been installed to support the expansion of the existing RF Network

B. Actual Reads Recorded from AMI Meters

Actual read number is inclusive of large commercial AMI meters installed prior to start of current AMI Project.

C. Meter Reading Staff

Meter reading staffing fluctuates for various reasons. Permanent Meter Readers continue to decline month over month via natural attrition. In May 2023, additional temporary Meter Reading staff had been hired to support Collection activities and vacations.

D. Number of customers receiving energy saving messages

In this report and subsequent reports, this metric will indicate how many PSE&G electric customers with AMI meters have received messages based on the pending implementation of use cases 1, 2, 3, 4, 5 and 7.

E. Customers who have authorized third party supplier access to their energy usage data

The development of a Data Access Plan has been deferred pending the statewide proceeding in Docket No. EO20110716. PSE&G is participating in that Board Staff proceeding.

F. Third Party Customer Engagement Efforts

PSE&G has utilized social media outlets for third party customer engagement efforts to date. The activities and results are as follows:

1. Published 0 messages:

- a) *0 organic messages on Facebook, Twitter and LinkedIn:*
 - (1) 0 on Facebook,
 - (2) 0 on Twitter,
 - (a) 0 on PSEGDelivers,
 - (b) 0 on PSEGNews.

2. Channel followers (as of June 2023):

- a) *Facebook: 117K*
- b) *PSEGDelivers (Twitter): 101K*
- c) *PSEGNews (Twitter): 21K*

3. The social media posts generated:

- a) *0 impressions (how many times an AMI social message was displayed),*
- b) *Reached 0 Facebook users*

G. Remote Connects/Disconnects Performed

Use case not yet implemented.

H. AMI Metering Tampering Cases

Use case not yet implemented.

I. Revision Regarding Meters Installed.

The Monthly, the Current Reporting Period, and the 'Project to date 1/7/2021 to 6/30/2023' data figures for line items related to 'residential meters installed' and 'commercial meters installed' was revised.



**Clean Energy Future-Energy Cloud Advanced Metering
Infrastructure (AMI) Program**

Semi-Annual Report to the Board of Public Utilities

For the period July 1, 2023 – December 31, 2023

Revised Version

Reporting Metric Tables:

Metric Description	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Current Reporting Period 7/1/2023 - 12/31/2023	Project to Date 1/7/2021 - 12/31/2023
Residential Meters Installed	81,326 <u>80,547</u> See Note I	101,123 <u>99,678</u> See Note I	75,776 <u>75,041</u> See Note I	67,140 <u>66,454</u> See Note I	67,635 <u>67,182</u> See Note I	82,714 <u>82,413</u> See Note I	475,714 <u>471,315</u> See Note I	1,353,228 <u>1,333,669</u> See Note I
Commercial Meters Installed	9,381 <u>9,223</u> See Note I	10,476 <u>10,334</u> See Note I	7,425 <u>7,294</u> See Note I	9,613 <u>9,490</u> See Note I	8,695 <u>8,645</u> See Note I	6,365 <u>6,335</u> See Note I	51,955 <u>51,321</u> See Note I	185,108 <u>180,171</u> See Note I
Network Installed								See Note A
Number of opt-out customers	289	451	163	161	170	353	1,587	6,144
Number of actual reads recorded from AMI meters each month	63,345,793	71,816,470	77,526,980	76,966,882	81,166,730	92,360,644	463,183,499	See Note B
Number of meter reading staff employed by PSE&G each month	322	313	301	294	287	276	See Note C	See Note C
Number of total visits by customers to AMI portal.	17,004	32,916	29,721	28,171	25,605	27,407	160,824	210,118
Number of unique monthly Log-in's to AMI portal.	8,303	15,692	14,226	13,266	12,243	13,352	77,082	N/A
Number of customers receiving energy saving messages.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note D
Number of customers who have authorized third party supplier access to their energy usage data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note E
Third Party Program-to-date customer engagement efforts undertaken by the Company	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See Note F
Number of AMI meters replaced due to functioning errors	25	7	32	26	24	5	119	346
Number of remote connects/disconnects performed	3,467	16,266	26,477	42,438	21,994	11,918	122,560	See Note G
Number of AMI meter tampering cases found	3	8	12	22	6	5	56	See Note H
Estimated CEF-EC project completion date							12/31/2024	12/31/2024

N/A – Not applicable at this stage of the AMI Program

Average Installation Costs (Per Unit Cost in USD)			Current Reporting Period 7/1/2023 - 12/31/2023	Project to Date 1/7/2021 - 12/31/2023
Average Cost Residential Meters Installed –Total			\$187.8	\$191.9
Average Cost Residential Meters Installed – Labor *(1)			\$70.7	\$78.2
Average Cost Residential Meters Installed – Materials			\$117.1	\$113.7
Average Cost Commercial Meters Installed – Total			\$243.9	\$264.3
Average Cost Commercial Meters Installed – Labor *(1)			\$89.9	\$103.0
Average Cost Commercial Meters Installed – Materials			\$154.0	\$161.3

Metric Description (USD in Millions)	FORECAST		ACTUALS	
	Current Reporting Period 7/1/2023 - 12/31/2023	Project to Date 1/7/2021 - 12/31/2023	Current Reporting Period 7/1/2023 - 12/31/2023	Project to Date 1/7/2021 - 12/31/2023
CEF-EC Capital Costs - Total	\$113.9M	\$358.8M	\$120.0M	\$365.5M
CEF-EC Capital Costs - Labor *(2)	\$10.2M	\$51.0M	\$7.3M	\$46.9M
CEF-EC Capital Costs – Material	\$53.7M	\$163.8M	\$58.4M	\$175.0M
CEF-EC Capital Costs – Other *(3)	\$50.0M	\$144.0M	\$54.3M	\$143.6M
CEF-EC Deferred O&M Expenses - Total	\$14.1M	\$46.3M	\$7.6M	\$35.6M
CEF-EC Deferred O&M Expenses - Labor *(2)	\$3.1M	\$10.4M	\$1.7M	\$7.3M
CEF-EC Deferred O&M Expenses – Material		\$0.6M	\$0.5M	\$1.1M
CEF-EC Deferred O&M Expenses – Other *(3)	\$11.1M	\$35.4M	\$5.4M	\$27.2M
Stranded Costs Deferred			\$17.4M	\$99.2M

*(1) Average Installation costs - Internal and External Labor.

*(2) Labor - Internal PSE&G Labor.

*(3) Other - Includes all contractors and Outside services.

Reporting Metric Notes:

A. Network Installation

Network Complete: 159 new poles and three radio gateways, 53 single-radio network gateways and 2207 routers have been installed to support the expansion of the existing RF Network

B. Actual Reads Recorded from AMI Meters

Actual read number is inclusive of large commercial AMI meters installed prior to start of current AMI Project.

C. Meter Reading Staff

Meter reading staffing fluctuates for various reasons. Permanent Meter Readers continues to decline month over month via natural attrition.

D. Number of customers receiving energy saving messages

In this report and subsequent reports, this metric will indicate how many PSE&G electric customers with AMI meters have received messages based on the pending implementation of use cases 1, 2, 3, 4, 5 and 7.

E. Customers who have authorized third party supplier access to their energy usage data

The development of a Data Access Plan has been deferred pending the statewide proceeding in Docket No. EO20110716. PSE&G is participating in that Board Staff proceeding.

F. Third Party Customer Engagement Efforts

PSE&G has utilized social media outlets for third party customer engagement efforts to date. The activities and results are as follows:

1. Published messages:

- a) *5 organic messages on Facebook, Twitter/X and LinkedIn:*
 - (1) 1 on Facebook,
 - (2) 3 on Twitter/X,
 - (a) 1 on PSEGDelivers,
 - (b) 2 on PSEGNews.
 - (3) 1 on Instagram

2. Channel followers (as of December-end 2023):

- a) *Facebook: 118K followers*
- b) *PSEGDelivers (Twitter/X): 99.1K followers*
- c) *PSEGNews (Twitter/X): 20.4K followers*
- d) *Instagram: 2.9K*

3. The social media posts generated:

- a) *4.3K impressions (how many times an AMI social message was displayed),*
- b) *Reached 2.1K Facebook and Instagram users.*

G. Remote Connects/Disconnects Performed

Use case not yet implemented.

H. AMI Metering Tampering Cases

Use case not yet implemented.

I. Revision Regarding Meters Installed.

The Monthly, the Current Reporting Period, and the 'Project to date 1/7/2021 to 12/31/2023' data figures for line items related to 'residential meters installed' and 'commercial meters installed' was revised.