

**GOVERNMENT OF PUERTO RICO
PUBLIC SERVICE REGULATORY BOARD
PUERTO RICO ENERGY BUREAU**

**IN RE: THE PERFORMANCE OF THE
PUERTO RICO ELECTRIC POWER
AUTHORITY**

CASE NO.: NEPR-MI-2019-0007

**SUBJECT: Fiscal Year 2023 12-Month
Metrics Summary**

RESOLUTION AND ORDER

I. Introduction

On May 14, 2019, the Energy Bureau of the Puerto Rico Public Service Regulatory Board ("Energy Bureau") issued a Resolution and Order ("May 14 Resolution") through which it initiated a proceeding to establish the quarterly reporting of performance metrics for the operation of the electric system. The Energy Bureau has received quarterly metric data reported by the Puerto Rico Electric Power Authority ("PREPA") regarding its performance since it was ordered in the May 14 Resolution.

On May 21, 2021, after an extensive process which included the opportunity for stakeholder and public engagement, the Energy Bureau issued a Resolution and Order ("May 21 Resolution") establishing baselines and benchmarks for certain performance metrics being reported in this docket.¹

On June 21, 2021, LUMA Energy, LLC as Management Co., and LUMA Energy Servco, LLC (collectively, "LUMA") filed a document titled *Motion Submitting Quarterly Performance Metrics and Request for Additional Time to Submit Data on Several of the Metrics* ("June 21 Submission"), in which it submitted the quarterly report for March, April, and May 2021 on performance metrics based on performance data collected before the Interim Service Commencement date. From June 1, 2021, LUMA took over operation of the transmission and distribution systems to deliver energy to customers on behalf of PREPA and would be responsible for reporting relevant data in this docket.

On July 6, 2021, LUMA filed a supplemental submission ("July 6 Supplemental Submission") for the Energy Bureau to consider the deferral of several financial metrics for the month of May 2021 because LUMA needed to reconcile data.² These metrics include: Capital expenses vs. budget (system), Capital expenses vs. budget (Transmission and Distribution), Capital expenses vs. budget (Generation), Capital expenses vs. budget (Customer Service), Capital expenses vs. budget (Exec), Capital expenses vs. budget (Planning and Environmental Protection), and Accounts Payable days outstanding.³ As part of the July 6 Supplemental Submission, LUMA also informed the Energy Bureau that it had not been able to gather and review data of fleet operations due to the unavailability of maintenance records and difficulties with the work order system.⁴

On August 13, 2021, LUMA filed an updated supplemental submission ("August 13 Updated Submission") to inform the Energy Bureau of clarifications to new performance metrics identified by the Energy Bureau.⁵ In the August 13 Updated Submission, LUMA identified that it did not believe the methodology that PREPA used to calculate technical losses as percent of net generation and technical loss reduction as percent of net generation to be

¹ See Resolution and Order, *In Re: The Performance of the Puerto Rico Electric Power Authority*, Case No. NEPR M1-2019-0007, May 21, 2021.

² July 6 Supplemental Submission, p. 3, ¶ 7.

³ *Id.*

⁴ *Id.*, pp. 3-4, ¶ 8.

⁵ August 13 Updated Submission, p. 2, ¶ 4.



reliable.⁶ LUMA also informed the Energy Bureau that LUMA had discovered that PREPA had limited the number of lines available to handle call center complaints.⁷

On September 20, 2021, LUMA filed a document titled *Motion Submitting Quarterly Performance Metrics, Requesting Leave to Defer Reporting on Specified Metrics and Request for Clarifications* ("September 20 Submission"), which is the first quarterly performance metrics collected by LUMA after the Interim Service Commencement that occurred on June 1, 2021. In its September 20 Submission, LUMA requested the Energy Bureau to defer the July and August data of these financial metrics: Operational expenses vs. Budget (excluding fuel)(system), Operational expenses vs. Budget (excluding fuel)(by directorate), Capital expenses vs. budget (system), Capital expenses vs. budget (Transmission and Distribution), Capital expenses vs. budget (Generation), Capital expenses vs. budget (Customer Service), Capital expenses vs. budget (Exec), Capital expenses vs. budget (Planning and Environmental Protection), Cost of generation by customer (for August 2021), Timely submission of the Monthly Operating Report, and Accounts payable days outstanding.⁸

On November 4, 2021, the Energy Bureau and its consultants held a technical conference to discuss the reporting metrics from PREPA and LUMA through June 2021 and address issues related to specific metrics. The Bureau and its consultants requested that LUMA verify whether the System Average Interruption Duration Index ("SAIDI") and System Average Interruption Frequency Index ("SAIFI") reliability metrics were being calculated under IEEE 1366 and consistent with the outage codes identified in the May 21 Resolution.⁹

On November 9, 2021, LUMA submitted a motion titled *Submission of Information Requested during Technical Conference of November 4, 2021* ("November 9 Motion"). Within this motion, LUMA stated that it had reviewed and recalculated the reliability statistics originally reported by PREPA to follow IEEE standard 1366-2012 methodology. LUMA confirmed that the outages due to generation-related load shedding were still being included in the calculations of SAIDI and SAIFI and that it had removed these outages in its updated calculations.

On December 14, 2021, the Energy Bureau issued a Resolution and Order ("December 14 Order") that accepted adjustments to specified metrics based on findings from the November 4, 2021 Technical Conference and supplemental responses provided by both LUMA and PREPA.^{10 11} The Resolution and Order also acknowledged LUMA's request to exclude certain metrics from reporting due to the unavailability data and/or the lack of definition from information that had been reported or unreported by PREPA.¹² As part of the Resolution and Order, the Energy Bureau ordered LUMA to provide alternate information, plan and timeline for the requested metrics.¹³

On August 18, 2022, the Energy Bureau issued a Resolution and Order ("August 18 Resolution") that summarized the first 12 months of LUMA's operation of the Puerto Rico

⁶ *Id.*, p. 2, ¶ 5.

⁷ *Id.*, pp. 2-3, ¶ 6.

⁸ September 20 Submission, pp. 6-7, ¶ 21.

⁹ SAIDI measures the number of minutes that an average customer experiences service interruption over the designated timeframe. SAIFI measures the number of interruptions that the average customer would experience over the designated timeframe.

¹⁰ Motion in Compliance with Bench Order Entered on November 4, 2021, *In re. The Performance of the Puerto Rico Electric Power Authority*, Case No. NEPR-MI-2019-0007, filed by PREPA on November 8, 2021.

¹¹ Motion in Compliance with Requests Issued in Technical Conference of November 4, 2021, *In re. The Performance of the Puerto Rico Electric Power Authority*, Case No. NEPR-MI-2019-0007, filed by LUMA on November 9, 2021.

¹² December 14 Order, p.5.

¹³ *Id.*



transmission and distribution system. The August 18 Resolution solely focused on metrics provided by LUMA and PREPA for the period starting June 1, 2021, through May 31, 2022. The August 18 Resolution also summarized LUMA's performance relative to the Energy Bureau's established benchmarks and baselines developed in this proceeding.

On August 24, 2022, the Energy Bureau issued a Resolution and Order ("August 24 Resolution") through which it expanded the August 18 Resolution analysis to include PREPA's performance since June 2019 for comparison purposes of reliability trends over a 36-month period and thus, directed PREPA to file on or before September 1, 2022, an explanation of the causes of their non-positive or negative performance for the period from June 2019 to May 31, 2022.

On September 16, 2022, LUMA filed a document titled *Urgent Request for Additional Extension of Time to Comply with Resolution and Order of August 18, 2022 Due to Change in Circumstances* ("September 16 Motion"). Through the September 16 Motion, LUMA expressed that as a result of the imminent passage of Hurricane Fiona through Puerto Rico, it had activated its Emergency Operations Center ("LEOC"), in compliance with the Emergency Response Plan.¹⁴ LUMA further stated its personnel working on the responses to the August 18 Resolution had been asked to delay those tasks and participate in LEOC activities.¹⁵ LUMA requested until September 30, 2022, to comply with the August 18 Resolution.¹⁶

On September 17, 2022, PREPA filed a document titled *Urgent Request for Extension of Time to Submit the Performance Metrics Report* ("September 17 Motion"). Through the September 17 Motion, PREPA stated that current events, including appearances before the Energy Bureau and the United States Congress, as well as emergency preparedness efforts given the imminent strike of Hurricane Fiona had forced PREPA to pause the efforts undertaken to prepare the metrics report and have a final version to be submitted on or before the September 20, 2022 deadline.¹⁷ Consequently, PREPA requested a ten-day extension, until September 30, 2022, to comply with the August 18 and 24 Resolutions.¹⁸

On September 21, 2022, PREPA filed before the Energy Bureau a document titled *Second Urgent Request for an Extension of Time to Submit the Performance Metrics Report* ("September 21 Motion"). Through the September 21 Motion, PREPA informed that due to the damages caused by Hurricane Fiona, its employees from the Generation Directorate have been working to restore the electric power supply to energize the Island.¹⁹ PREPA further stated that power restoration efforts take priority over administrative and reporting efforts and thus requested an extension until October 14, 2022, to comply with the August 18 and 24 Resolutions.²⁰

On September 23, 2022, the Energy Bureau issued a Resolution ("September 23 Resolution") through which it extended the August 18 Resolution analysis after a review of the September 16, 17, and 21 Motions, that allowed LUMA and PREPA to comply with the August 18 and 24 Resolutions on or before Friday, October 14, 2022.

On October 12, 2022, PREPA filed a document titled *Third Urgent Request for Extension of Time to Submit the Performance Metrics Report* ("October 12 Motion"). In the October 12

¹⁴ September 16 Motion, p. 3, ¶10.

¹⁵ *Id.*, p.4, ¶10.

¹⁶ *Id.*, ¶12

¹⁷ September 17 Motion, p. 3, ¶ 8.

¹⁸ *Id.*

¹⁹ September 21 Motion, p. 3, ¶10.


²⁰ *Id.*, p.4, ¶11.





Motion, PREPA requested additional time to comply with the Energy Bureau's August 18 and August 24 Resolutions.


On October 15, 2022, LUMA filed a document titled *Submission in Response to Resolution and Orders of August 18th, 2022* ("October 15 Motion"). In the October 15 Motion, LUMA identified requests to correct data of Appendix A and Attachment A of the August 18 Order. LUMA also disagreed or objected to the Energy Bureau's Determination on Non-Performance for Specified Performance Metrics.


On October 19, 2022, the Energy Bureau issued a Resolution ("October 19 Resolution") through which it extended the August 18 Resolution analysis after a review of PREPA's October 12 Motion, to allow LUMA and PREPA to comply with the August 18 and 24 Resolutions on or before November 7, 2022.

 On October 20, 2022, LUMA filed a document titled *Submission of Performance Metrics Report for July through September 2022* ("October 20 Motion"). In the October 20 Motion, LUMA submitted the LUMA and PREPA Performance Metrics for the period between July and September 2022. In the October 20 Motion, LUMA requested that the Energy Bureau grant a request to defer the reporting of reliability data for September to allow LUMA to address the impacts of Hurricane Fiona.

 On November 7, 2022, PREPA filed a document titled *Fifth Request for Extension of Time to Submit the Performance Metrics Report* ("November 7 Motion"). In the November 7 Motion, PREPA requested additional time to comply with the Energy Bureau's August 18 and August 24, and October 19 Resolutions.

 On November 10, 2022, PREPA filed a document titled *Motion to Submit Performance Metrics Report and in Compliance with the October 19 Order* ("November 10 Motion"). The November 10 Motion contains PREPA's performance metrics report in Annex A, and PREPA's vehicle and workforce metrics report in compliance with the Energy Bureau's October 19 Resolution in Annex B of the November 10 Motion.

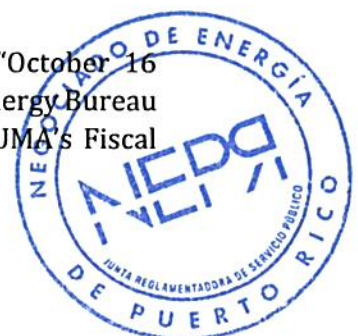
 On April 20, 2023, LUMA filed a document titled *Submission of Performance Metrics Report for January through March 2023 and In Compliance with Orders of January 12, 2023 and April 3, 2023* ("April 20 Submission"). In this submission, LUMA submitted the "Resumen Metricas" file along with supporting data spreadsheets. Within this submission, LUMA included a Request for Adoption of LUMA's districts in connection with reliability metrics.

 On July 20, 2023, LUMA filed a document titled *Submission of Performance Metrics Report for April through June 2023* ("July 20 Submission"). In this submission, LUMA submitted the "Resumen Metricas" file along with supporting data spreadsheets. This submission includes data for the fourth (4th) quarter of Fiscal Year 2023 (FY23). In this filing, LUMA incorporated LUMA's districts for the reporting of SAIDI and SAIFI metrics. LUMA provided historical data through June 2021 to allow comparisons of the information over time.

On August 16, 2023, the Energy Bureau issued a Resolution and Order ("August 16 Resolution") in which it determined that additional information was needed to evaluate LUMA's request to report SAIDI and SAIFI metrics in accordance with LUMA's operational districts instead of the existing regions, as used by PREPA. This Resolution and Order contained a set of requirements of information for LUMA on this topic to better understand the reasoning and impact of this change.

On September 6, 2023, LUMA filed a document titled *Motion in Compliance with Resolution and Order of August 16, 2023, and Request for Confidential Treatment* ("September 6 Motion") containing its responses to the information requests. The September 6 Motion included responses to the requests for information that the Energy Bureau had requested along with two Excel workbooks with supporting data.

On October 16, 2023, the Energy Bureau issued a Resolution and Order ("October 16 Resolution") in response to the LUMA's July 20 and September 6 Motions. The Energy Bureau determined that additional information was required to properly evaluate LUMA's Fiscal



Year 2023 performance as provided in the July 20 Motion and understand the data provided in the September 6 Motion. The October 16 Resolution included a set of thirteen (13) Requirements of Information ("ROIs") for LUMA to respond to on or before October 31, 2023.

On October 20, 2023, LUMA filed a document titled *Submission of Performance Metrics Report for July through September 2023* ("October 20 Submission"). In this submission, LUMA informed that it corrected data entry errors for several customer service metrics for April 2023.²¹

On October 31, 2023, LUMA filed a document titled *Motion Submitting Restated Values for the SAIDI and SAIFI Reliability Performance Metrics for Fiscal Year 2023* ("October 31 Motion") as well as a document titled *Submission of Responses to Requirements of Information and Request for Extension to Respond to ROI 5(c)* ("October 31 Submission"). LUMA's October 31 Motion included two Excel workbooks: a revised "Resumen métricas" file with data provided through September 2023 and a file with supporting data for the Transmission and Distribution metrics. LUMA stated that it was filing this corrected reliability data to reflect improved data that corrected for the number of customers affected, duration of the outages, and the cause codes of the outages. This affected the overall system SAIDI by less than 0.3%. LUMA's October 31 Submission included responses to the requests for information that the Energy Bureau had requested in its October 16 Resolution, except for ROI 5(c). In the submission, LUMA requested an extension until November 14, 2023, to prepare its response to ROI 5(c).

On November 8, 2023, the Energy Bureau issued a Resolution and Order granting LUMA's request for additional time to respond to ROI 5(c).

On November 9, 2023, LUMA filed a document titled *Submission of Response to Requirement of Information 5(c) Issued in Order of October 16, 2023* ("November 9 Motion"). This submission included an Excel spreadsheet with the requested data.

II. Summary of Fiscal Year 2023 Performance

The Energy Bureau has summarized LUMA and PREPA's performance over twelve-months, from July 2022 through June 2023 (Fiscal Year 2023 or FY23). To produce this summary, the Energy Bureau relied on the "Resumen metricas" file from LUMA's October 31 Motion.²² This represents the most current data, including corrections that LUMA made to its data since its original July 20, 2023, Submission. The analysis also compares the average of the monthly values reported by PREPA and LUMA for each fiscal year between FY20 through FY23.

Attachment A of this Resolution and Order includes a narrative summary of certain metrics with graphs to highlight some of the observed trends.

Attachment B of this Resolution and Order includes a set of tables summarizing the performance of all metrics currently reported by LUMA and PREPA.

The metrics are grouped into tables depending on whether they had been reported by LUMA or PREPA, whether LUMA has proposed to receive a performance incentive for these metrics in Docket NEPR-AP-2020-0025²³, whether the metrics have been assigned benchmarks, and whether the metrics are reported only for informational purposes (these metrics have been

²¹ October 20 Submission, p. 3.

²² See, "20231031-Resumen-Metricas-Master_October2023-MI-2019-0007.xlsx".

²³ In Re: Performance Targets for LUMA Energy SERVCO, LLC, Caso No. NEPR-AP-2020-0025, this procedure was commenced to establish performance-based incentive mechanism targets for LUMA.



designated as not directly within PREPA or LUMA's control and not reflective of performance, but still provide important contextual information).²⁴

The tables are organized as follows and are included as Attachment B to this Resolution and Order:

1. Metrics reported by LUMA that are proposed for performance incentives in Case No. NEPR-AP-2020-0025
2. Metrics reported by LUMA that have benchmarks
3. Metrics reported by LUMA with no benchmarks
4. Metrics reported by PREPA that have benchmarks
5. Metrics reported by PREPA with no benchmarks
6. Metrics reported by LUMA and PREPA for informational purposes

For Tables 1 through 5, the Energy Bureau indicates how LUMA's and PREPA's reported monthly average values for FY23 have performed relative to the Fiscal Year 2020 (FY20) baseline values and last fiscal year's performance (Fiscal Year 2022 or FY22). Some metrics have improved since prior years, while others have not improved. Depending on the metric, a lower or higher value relative to the established baseline or benchmark corresponds with better performance. For example, decreases in reliability metrics like SAIDI and SAIFI indicate system reliability has improved. For other metrics, better performance is indicated by a value being higher than the established baseline or benchmark such as plant availability. In addition to categorizing metrics as "Improved" or "Not improved", the Energy Bureau uses the terminology "Met Baseline" if a metric performed within a 5 percent threshold of the FY20 baseline and uses "No substantial change" if a metric performed within a 5 percent threshold of FY22.

There are some metrics for which additional information is required to determine whether LUMA's performance improved. These have been designated as "Under Review." The Energy Bureau has included a request for information ("ROIs") as part of this Resolution and Order to gather additional information on this subset of metrics. These ROIs are included in Attachment D of this Resolution and Order.

There are also some metrics that are presented separately in Table 6 for informational purposes. For example, fuel prices are largely outside of either PREPA or LUMA's control and are more reflective of global market conditions than performance. These metrics still provide important context and should continue to be reported by LUMA and Genera PR, LLC ("Genera"). While PREPA was responsible for operating the generation assets throughout FY23, on January 15, 2023, the Energy Bureau approved an operation and maintenance agreement with Genera,²⁵ and Genera has effectively taken over operation of the legacy generation assets beginning on July 1, 2023.

III. Puerto Rico Electric Power and Renewable Energy ("PREPARE") Dashboard

To explore the data through FY23 in more detail, interested parties may also view the data online through a web-based dashboard, known as **PREPARE**, that the Energy Bureau has developed. Through the website, viewers can see data for metrics in graphical form, download the graphs as images, as well as download the underlying data in spreadsheet form. The dashboard is presented in Spanish and English and can be accessed at the following website:

<https://dashboard.energia.pr.gov/>

²⁴ The benchmarks shown in this docket are not related to the targets being proposed in Case No. NEPR-AP-2020-0025. Once these targets have been set, the Energy Bureau may update the benchmarks in this docket accordingly.

²⁵ See, Resolution and Order, *In re: Certificate of Energy Compliance*, Case No.: NEPR-AP-2022-0001, January 15, 2023.



This is the beta release of the webpage, and the Energy Bureau plans to make improvements based on stakeholder feedback. The PREPARE Dashboard will be updated on a regular basis going forward.

IV. Discussion

Reliability Performance

For FY23, LUMA reported an annual system SAIDI value for the combined transmission and distribution system of 1,218 minutes. SAIDI measures the time that an average customer experiences power outages during the year due to disruptions to the transmission and distribution system.²⁶ This value is calculated by summing the monthly SAIDI (T&D) values for July 2022 through June 2023. While this is an improvement over the performance recorded in the prior years tracked in this instant procedure, as well as the baseline of 1,243 minutes, LUMA still requires significant improvement to achieve the Energy Bureau's SAIDI benchmark. In its May 21 Resolution, the Energy Bureau set a SAIDI benchmark of 102 minutes per year.²⁷ Currently, Puerto Rico is experiencing 102 minutes of outages on average per month. This issue is of major importance to the Energy Bureau and will continue to be monitored closely in this docket, as well as others.

After reviewing LUMA's district-level SAIDI, of LUMA's 15 districts, eight experienced shorter outages in FY23 compared to FY22. The remaining seven experienced longer monthly outages on average relative to the prior year. While Barranquitas, Canóvanas, and Fajardo experienced slightly longer outages than last year, both districts have SAIDI values well below the average system SAIDI. On the other hand, Bayamón, Humacao, Mayagüez, and San Juan all reported SAIDI improvements relative to FY22 but are experiencing longer outages on average than the system as a whole.

Because LUMA began reporting reliability data by its 15 operational districts beginning in quarter four ("Q4") of FY2023, the Energy Bureau cannot compare monthly SAIDI and SAIFI by district between FY23 and the baseline of FY20.²⁸ While this limits the district-level historical comparison, the system-level reliability values did not change as a result of the change of district definitions.

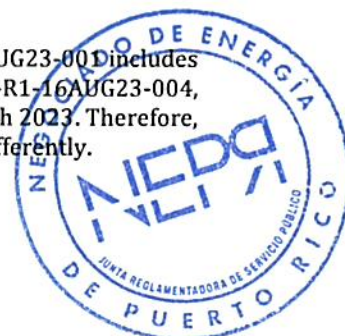
For FY23, LUMA reported an annual system SAIFI value for the combined transmission and distribution system of 6.9 interruptions per customer. Relative to the FY20 baseline of 10.6 interruptions per customer, LUMA has decreased the annual frequency of outages by an average of 3.7 interruptions per customer. This is also an improvement on last year's performance, where LUMA reported an average of 7.5 interruptions per customer per year. The Energy Bureau notes that LUMA has made good progress reducing SAIFI and that the average customer has benefited by having their service interrupted fewer times per year. The Energy Bureau's benchmark for SAIFI performance strives to lower this value to one interruption per customer per year.

Upon reviewing LUMA's district-level SAIFI, of LUMA's 15 operational districts, eight experienced fewer outages on average in FY23 compared to FY22. Of the remaining seven,

²⁶ In addition, LUMA is solely responsible for transmission and distribution infrastructure and their reliability metrics only measure power outages due to failures in this portion of the electrical grid. Generation shortfalls and disturbances from power plants tripping offline cause another significant portion of outages that are not LUMA's responsibility.

²⁷ May 21 Resolution, p.12.

²⁸ See LUMA's September 6 Motion. LUMA's response to ROI-LUMA-MI-2019-0007-R1-16AUG23-001 includes a map of the 15 operational districts. In LUMA's response to ROI-LUMA-MI-2019-0007-R1-16AUG23-004, LUMA explained that they stopped recording outage data using PREPA's districts after March 2023. Therefore, district-level comparisons are not possible for earlier periods as the districts are defined differently.



one district experienced roughly the same frequency of outages and six experienced more outages than the prior year. While Aguadilla, Barranquitas, Canóvanas, and Fajardo experienced more frequent outages than last year, these districts have SAIFI values below the average system SAIFI. On the other hand, Bayamón, Mayagüez and San Juan reported SAIFI improvements relative to FY22 but are experiencing more outages on average than the system as a whole.

To better understand the reason for this operational district-level variation and LUMA's plans for improving system reliability, the Energy Bureau has included a list of further questions on this topic in Attachment C. The Bureau **ORDERS** LUMA to respond to the ROIs in Attachment C included herein within thirty (30) days from the notification of this Resolution and Order.

Generation Performance

For the timeframe in this analysis, PREPA was responsible for the operation of all legacy generation assets. As previously mentioned, the Energy Bureau approved an operation and maintenance agreement with Genera as per the LGA OMA²⁹, and Genera has effectively taken over operation of the legacy generation assets beginning on July 1, 2023. While PREPA still owns the assets, Genera will be responsible for the performance of the units beginning in FY24. This means that while FY23 generation metrics performance is still attributed to PREPA, performance in FY24 onward will be attributed to Genera. After reviewing the data, the Energy Bureau notes that generation asset performance in various areas has declined relative to FY20 and FY22 values. Many fossil plants have been experiencing high forced outage rates and extremely low plant availability. On average over FY23, one-third of PREPA's vehicles were out of service. Absenteeism amongst PREPA employees has also been increasing each year since FY20.

V. Metrics Requiring Additional Clarification

Upon review of certain metrics, the Energy Bureau finds that additional data needs to be provided to determine whether performance should be designated as improved or not improved. Furthermore, there are also metrics where the Energy Bureau requires clarification on how to interpret the data that is currently being presented. In Attachment D of this Resolution and Order, the Energy Bureau is issuing ROIs to obtain the information it needs to further evaluate certain metrics.

The Energy Bureau **ORDERS** LUMA, PREPA, and Genera to respond to the ROIs in Attachment D herein within thirty (30) days of the notification of this Resolution and Order.

VI. Metrics Labeled as Not Improved

The Energy Bureau **ORDERS** LUMA to file within thirty (30) days of the notification of this Resolution and Order, a motion explaining, to the extent possible, the causes of their lack of improvement for the period from July 2022 to June 2023 for each metric labeled as such in Tables 1 through 5. The filing shall also include Genera and LUMA's plans for improvement over the next fiscal year.

VII. Response to LUMA's Request to Adopt its Operational Districts in Connection with Reliability Metrics

As part of its review of LUMA and PREPA's FY23 performance, the Energy Bureau assessed LUMA's request to use its operational districts to report reliability metrics, including SAIDI

²⁹ Puerto Rico Thermal Generation Facilities Operation and Maintenance Agreement, between PREPA, the Puerto Rico Public-Private Partnership Authority ("P3 Authority") and Genera PR LLC ("Genera"), January 24, 2023 ("LGA OMA").

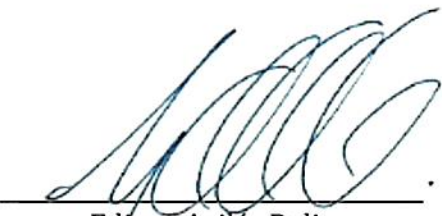


³⁰ Puerto Rico Energy Transformation and RELIEF Act, as amended, [Act 57-2014")



and SAIFI. The Energy Bureau notes that LUMA initially submitted this request with its April 20 Submission, and started adopting this scheme in its July 20 Submission, despite not having received Energy Bureau approval. The Energy Bureau reiterates its direction that LUMA must use the quarterly data template as published through the docket and may not make changes without explicit permission. Going forward, LUMA should continue to follow the template as provided and not introduce its own modifications. The Bureau **WARNS** LUMA that any future unapproved changes to the quarterly reporting process may result in the imposition of fines pursuant to Article 6.36 of Act 57-2014.³⁰

After reviewing LUMA's September 6 Motion and underlying workpapers, the Energy Bureau **APPROVES** LUMA's request from its April 20 Submission to modify the quarterly reporting template to reflect LUMA's operational districts for SAIDI and SAIFI.

Be it notified and published.

	
Edison Avilés Deliz Chairman	
	
Lillian Mateo Santos Associate Commissioner	Ferdinand A. Ramos Soegaard Associate Commissioner
	
Sylvia B. Ugarte Araujo Associate Commissioner	Antonio Torres Miranda Associate Commissioner

CERTIFICATION

I certify that the majority of the members of the Puerto Rico Energy Bureau has so agreed on December 21, 2023. I also certify that on this date a copy of this Resolution and Order was notified by electronic mail to margarita.mercado@us.dlapiper.com, Yahaira.delarosa@us.dlapiper.com; lionel.santa@prepa.pr.gov; alopez@sbgblaw.com, jfr@sbgblaw.com, hrivera@jrsp.pr.gov. I also certify that today, December 21, 2023, I have filed the Resolution and Order issued by the Puerto Rico Energy Bureau.

I sign this in San Juan, Puerto Rico, today December 21, 2023.


Sonia Seda Gaztambide
Clerk



³⁰ Puerto Rico Energy Transformation and RELIEF Act, as amended, [Act 57-2014"]

Attachment A: Discussion of Performance for Selected Metrics

The following figures highlight some of the trends seen over the past 12 months as shown in the reported data. The metrics the Energy Bureau have chosen to focus on span different categories, including reliability, safety, customer service, human resources, and renewable energy.

Reliability

System Average Interruption Duration Index (SAIDI)

LUMA’s reported monthly System Average Interruption Duration Index (SAIDI) for the entire system over FY23 is shown in Figure 1. The system experienced longer outages in the summer months and shorter outages during the fall and winter. Given this monthly fluctuation, the Energy Bureau has not set monthly SAIDI benchmark values. Per LUMA’s response to ROI 2 of the October 16 Resolution, LUMA is aware of the annual fluctuation in unplanned outages during the traditional storm season (June to October). LUMA stated that it supplemented outage response crews ahead of the 2023 storm season and further developed its Incident Command Structure to improve unplanned outage response.³¹

Figure 1: Monthly SAIDI

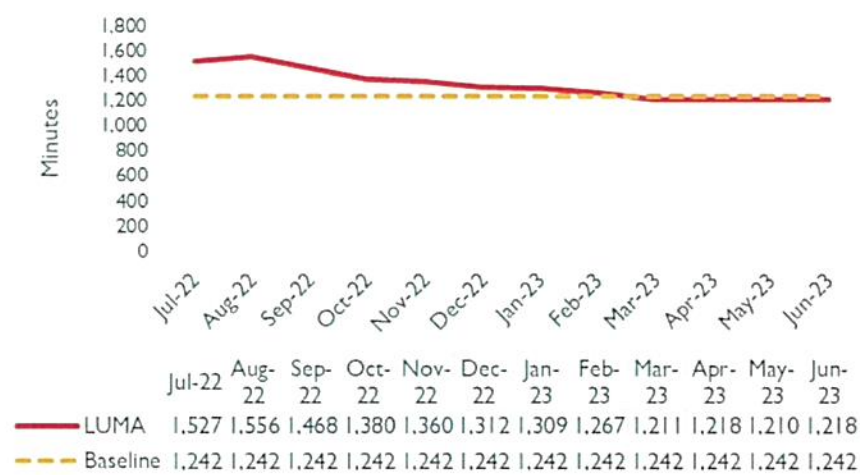


In Figure 2 below, the Energy Bureau presents LUMA’s rolling 12-month annual SAIDI levels. LUMA’s reported 12-month SAIDI levels had been higher than the Energy Bureau’s baseline of 1,243 minutes until March 2023. From March through June 2023, LUMA’s performance roughly equals PREPA’s baseline from FY20. The benchmark for this metric is 102 minutes, which is still significantly lower than LUMA’s current level of outages.



³¹ See LUMA’s October 31 Submission, Response ROI-LUMA-MI-2019-0007-R2-16OCT23-002.

Figure 2: Rolling 12-month SAIDI



System Average Interruption Frequency Index (SAIFI)

The Energy Bureau observes that LUMA’s monthly System Average Interruption Frequency Index (SAIFI) for the entire system has fluctuated widely over the past year and has been on an increasing trend over the past 4 months, as shown in Figure 3. While monthly outage frequencies have been occurring less than once per customer, June 2023 recorded the highest monthly SAIFI value since LUMA’s transition. There are no monthly SAIFI benchmark values.

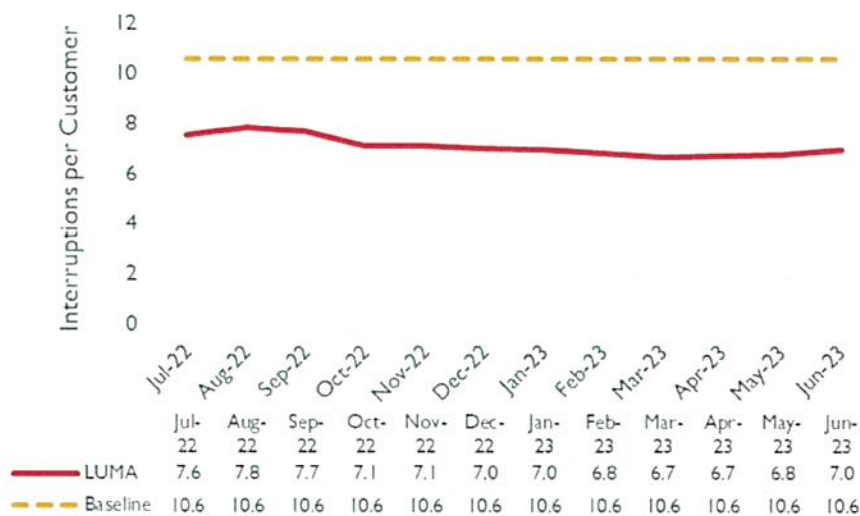
Figure 3: Monthly SAIFI



On an annual basis, LUMA is performing better than the baseline value set by the Energy Bureau as shown in Figure 4 below. However, LUMA has yet to achieve the benchmark value of 1 interruption per customer on an annual basis.



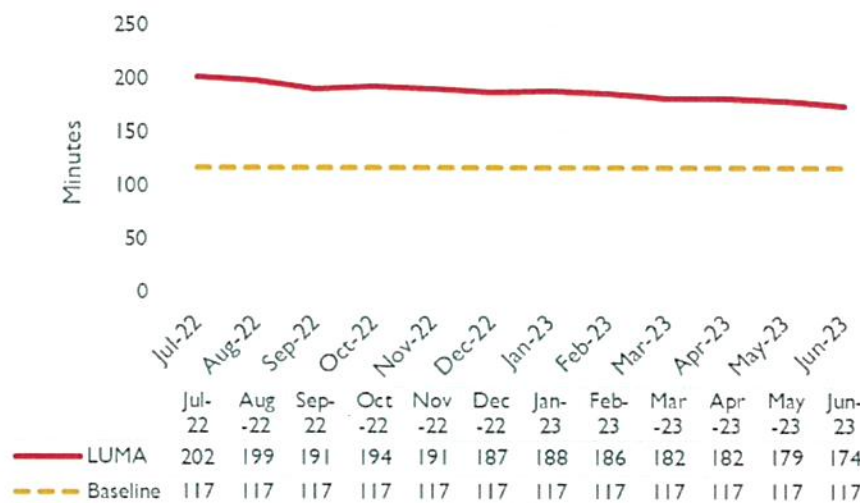
Figure 4: Rolling 12-month SAIFI



Customer Average Interruption Duration Index (CAIDI)

Figure 5 shows LUMA’s reported Customer Average Interruption Duration Index (CAIDI) performance by LUMA. While CAIDI has been decreasing through FY23, these values are higher than the baseline value set by the Energy Bureau.³² This trend is largely caused by higher SAIDI values and lower SAIFI values, since CAIDI is calculated as SAIDI divided by SAIFI and represents the average duration of a single outage.

Figure 5: Annual CAIDI



Transmission Line Inspections

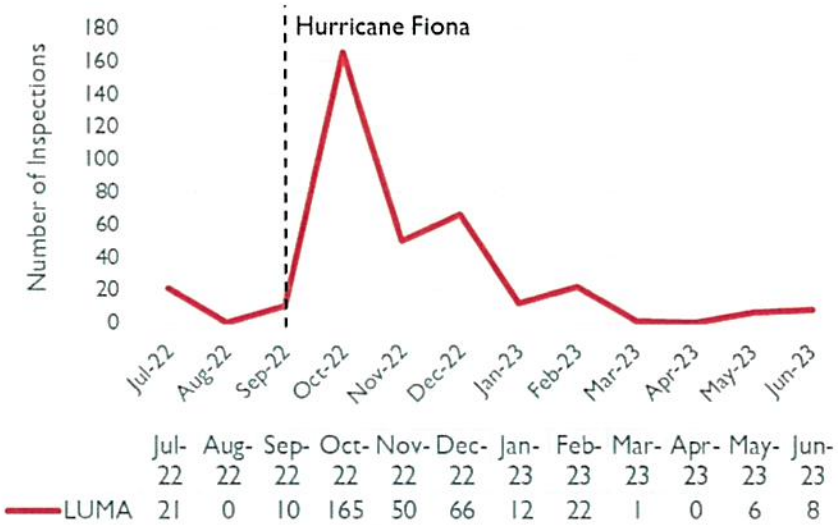
LUMA began reporting transmission, distribution, and substation inspections in its April 20, 2023 quarterly report. In its submission, LUMA provided historical data on this metric

³² The baseline CAIDI value is calculated by dividing the rolling 12-month SAIDI baseline by the 12-month rolling SAIFI baseline from FY20. 1,243 minutes divided by 10.6 interruptions per customer results in an annual average of 117 minutes per interruption. In the Bureau’s August 18 Resolution, the CAIDI baseline was reported as 145 minutes. This value is outdated and was based on SAIDI and SAIFI values that included outages due to generation-related load shedding. LUMA discovered this in their September 20 Submission and provided revised SAIDI and SAIFI values in its November 9 Submission. See “TC-RFI-LUMA-MI-19-0007-211104-BREB 002_Exhibit 1” as provided with the November 9 Submission for the relevant data.



through June 2021 (see Figure 6). During FY23, LUMA conducted the highest number of transmission line inspections in October 2022 and conducted few to no inspections in March and April 2023. In its October 31 ROI response, LUMA stated that it conducted a higher number of visual assessments of the transmission and distribution system after Hurricane Fiona to perform post-storm damage assessments.³³

Figure 6: Transmission Line Inspections

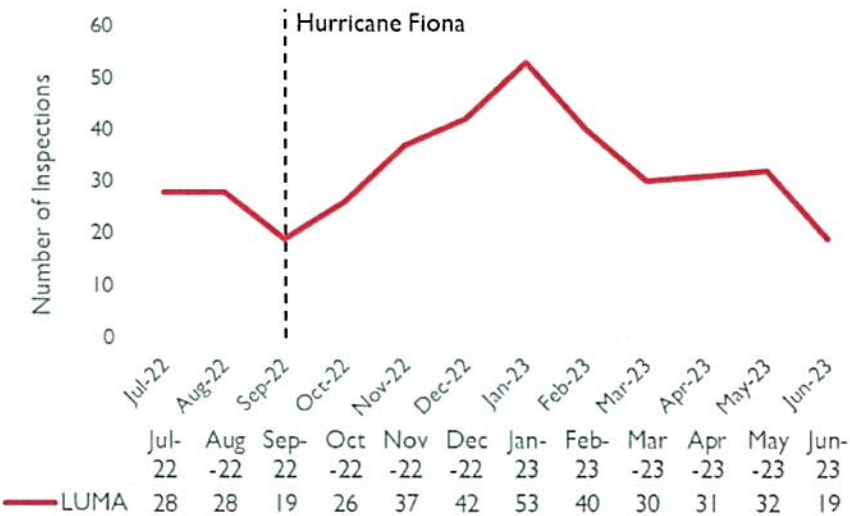


Distribution Line Inspections

LUMA conducted an average of 32 distribution line inspections per month in FY23, a reduction from FY22’s average of 54 inspections per month.

Figure 7 shows this data.

Figure 7: Distribution Line Inspections



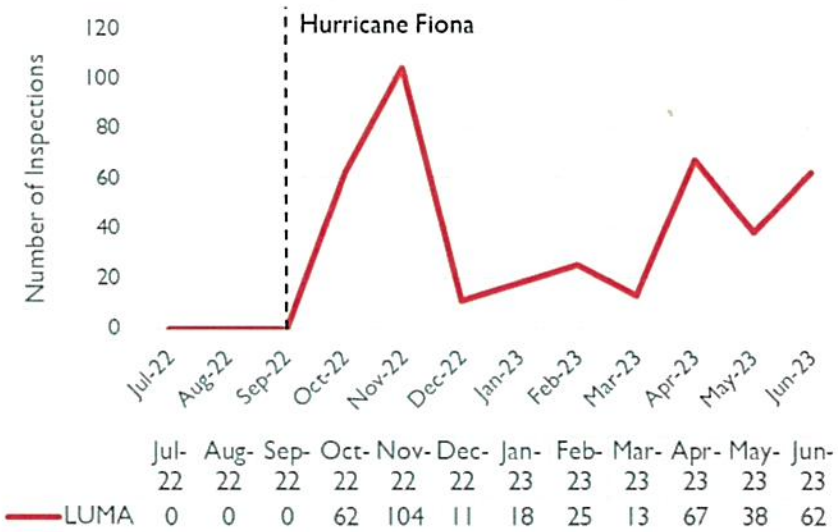
³³ See LUMA’s October 31 Submission, Response ROI-LUMA-MI-2019-0007-R2-16OCT23-002.



T&D Substation Inspections

Figure 8 shows LUMA’s monthly T&D substation inspections. LUMA conducted an average of 33 substation inspections per month in FY23, which is an increase from FY22’s average of 9 inspections per month.

Figure 8: T&D Substation Inspections

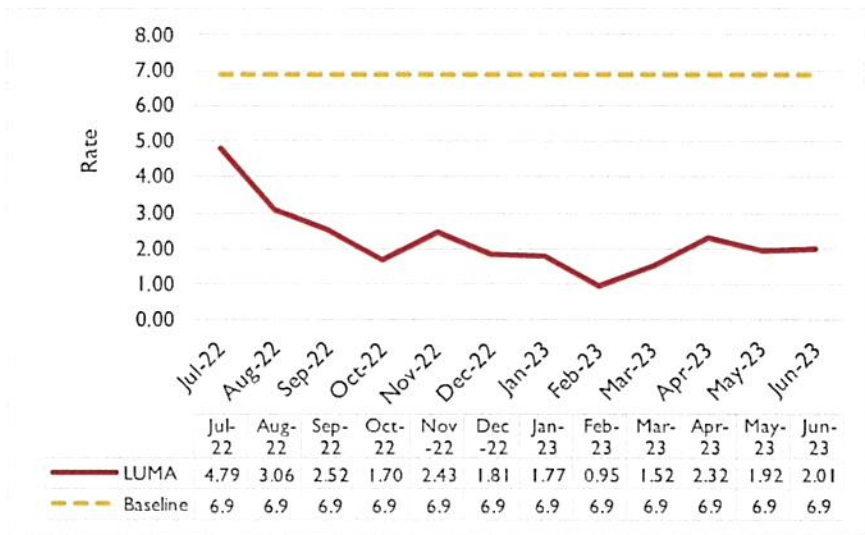


Safety

OSHA Recordable Rate

Figure 9 shows LUMA’s OSHA recordable rate. LUMA’s average for FY23 was 2.2, which is below the baseline of 6.9 and is within the benchmark value of 2.3 set by the Energy Bureau. Since July 2022, this value has shown a decreasing trend which represents a reduction in lost workdays and an improvement in safety.

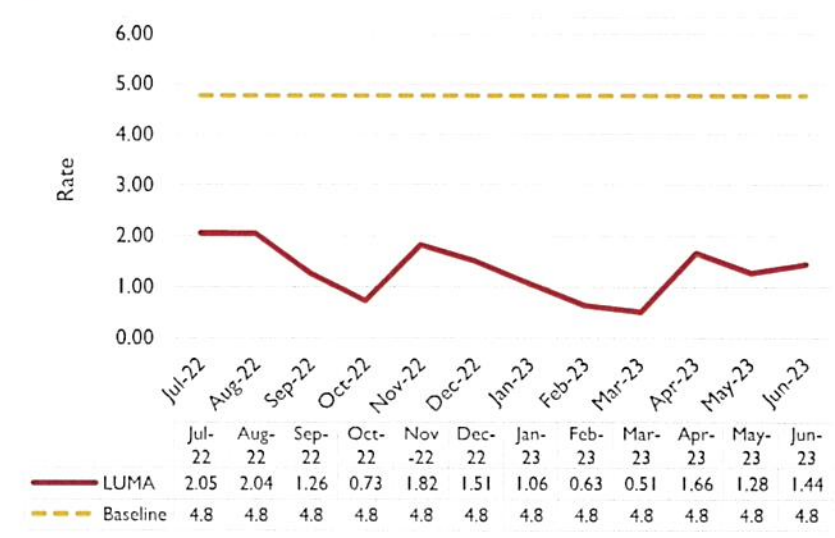
Figure 9: OSHA Recordable Rate



OSHA Days Away, Restricted, and Transfer (DART) Rate

Figure 10 shows LUMA’s OSHA DART Rate. This metric measures the number of recordable injuries or illnesses that resulted in days away, restricted, or transferred. A lower value means fewer incidents per employee hours worked. Over FY23, LUMA’s reported OSHA DART rate was 1.3 on average, which is a notable improvement over the FY2020 baseline of 4.8 and FY22’s performance of 1.8. This is still higher than the current benchmark of 1.1.

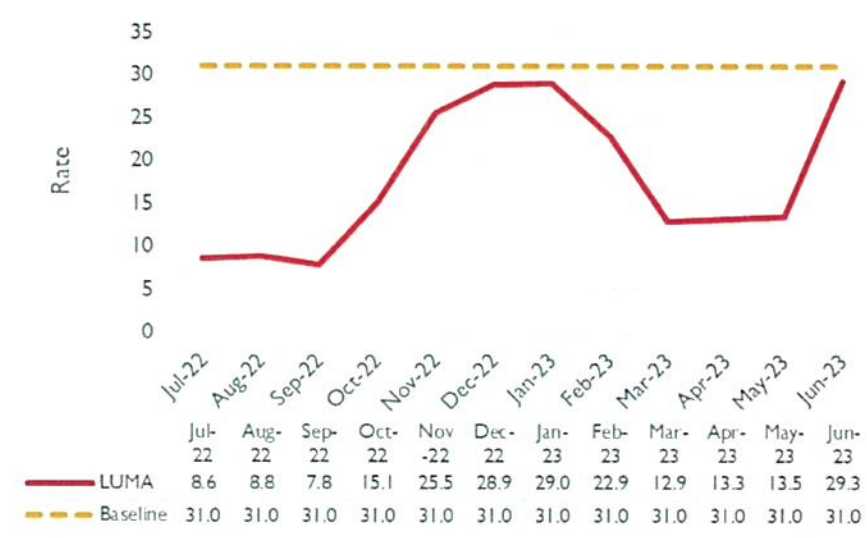
Figure 10: OSHA DART Rate



OSHA Severity Rate

Figure 11 shows LUMA’s OSHA Severity Rate performance. This measures the number of restricted and lost time days due to a work-related injury. LUMA’s three highest recorded severity rate values since taking over operation have all occurred in FY2023. December 2022, January 2023, and June 2023 experienced values between 28 and 30. While LUMA’s FY23 performance was not an improvement relative to FY22, it is still lower than the FY20 baseline of 31.

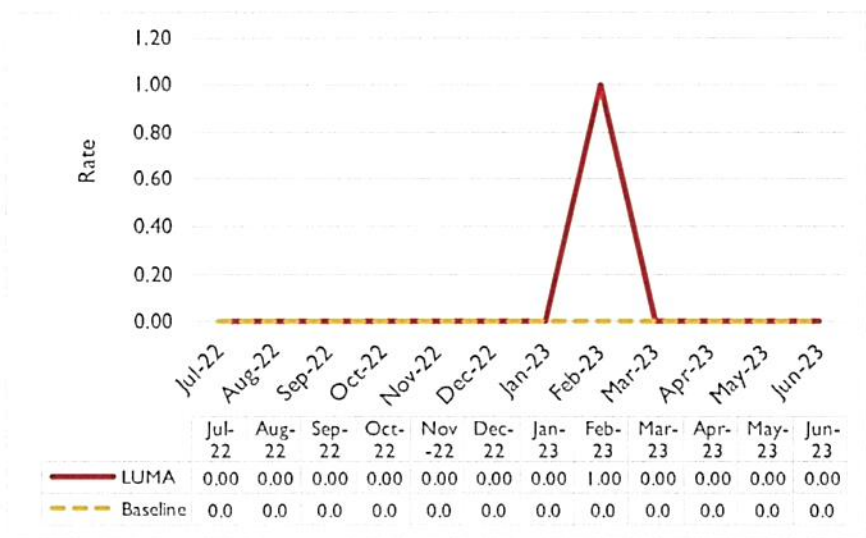
Figure 11: OSHA Severity Rate



OSHA Fatalities

On February 22, 2023, a substation technician passed away while performing maintenance work on a substation in Barranquitas. On March 13, 2023, the Energy Bureau issued a Resolution and Order to start an investigation into the February 22 incident and required LUMA to file a summary of the incident, corrective or other actions, and other information regarding the OSHA investigation.³⁴ This is the first time since the Energy Bureau began collecting data in this instant proceeding that a non-zero value was reported. The baseline and benchmark for OSHA Fatalities is zero.

Figure 12: OSHA Fatalities



³⁴ See *In re: Fatality Occurred February 22, 2023*, Case No. NEPR-IN-2023-0001.

Customer Service

Act 57 Claims Opened and Closed

Since June 2021, LUMA has reported data on the number of formal and informal Act 57-2014 claims opened and closed. The Energy Bureau observes that the number of Act 57-2014 claims opened were highest in May and June 2023 as shown in Figure 13, and the number of claims closed by LUMA was highest in January as shown in Figure 14. Most resolved claims were under the Commercial and Public residential categories.

Figure 13: Number of Act 57 Claims Opened

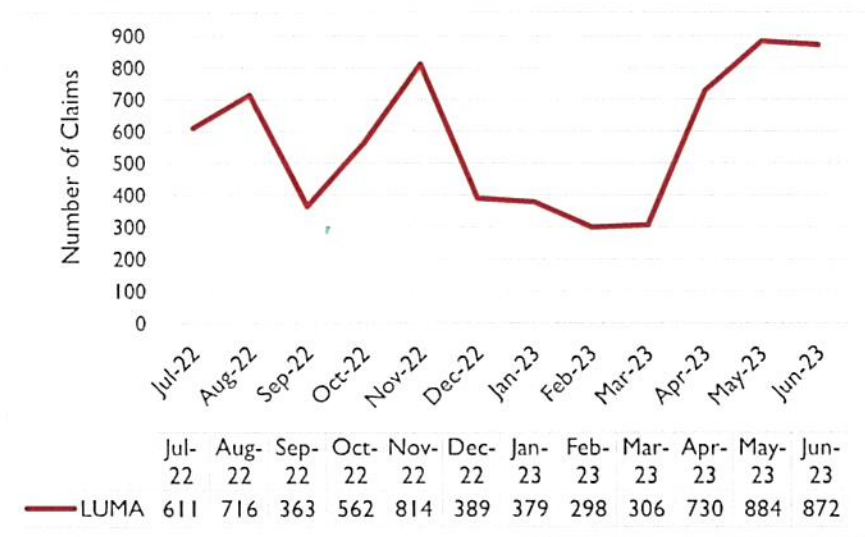
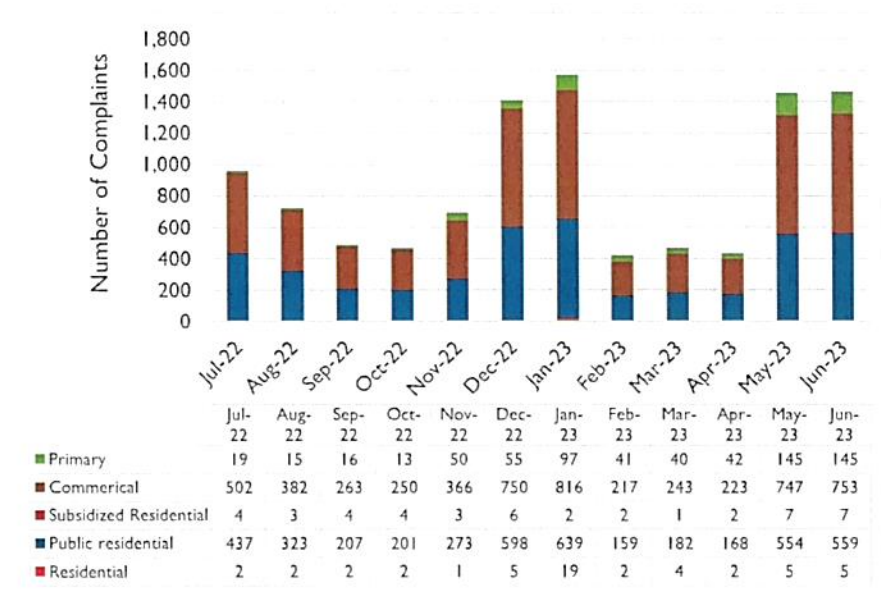


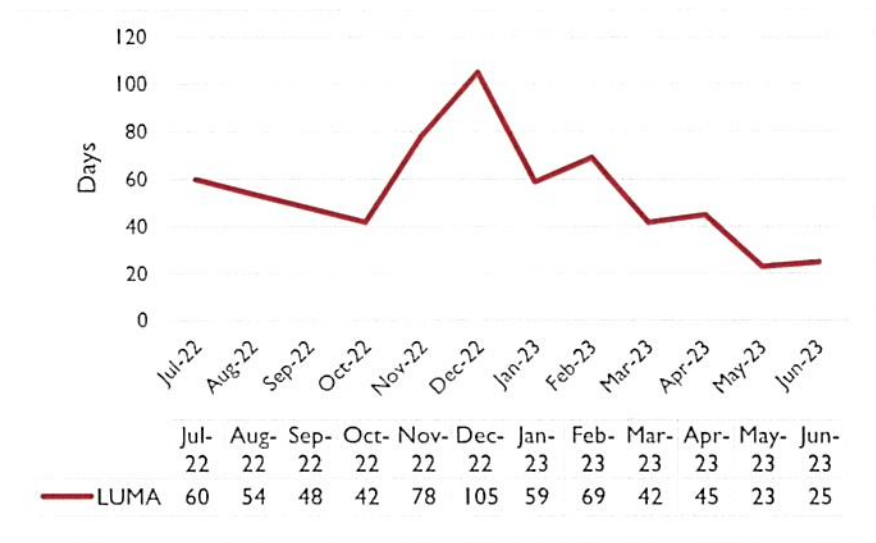
Figure 14: Number of Act 57 Claims Closed



Average Time to Resolve Act 57 Billing Disputes

Figure 15 shows LUMA's average time to resolve Act 57-2014 Billing Disputes. The chart shows that the number of days required has been decreasing since December 2022. Starting in May 2023, the Energy Bureau observes that the average time to resolve has dropped to less than one month.

Figure 15: Average Time to Resolve Act 57 Billing Disputes



Average Speed to Answer

Figure 16 below shows LUMA's average speed to answer phone calls. The Energy Bureau observes that LUMA has consistently maintained an average speed to answer below the Energy Bureau's baseline of 8.3 minutes. This is a significant improvement relative to the baseline.

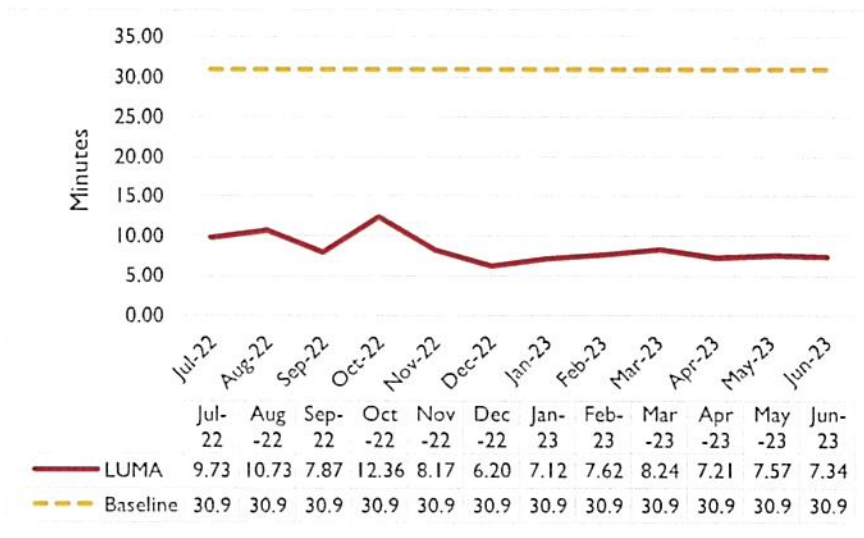
Figure 16 Average Speed to Answer



Average Wait Time at Customer Service Centers

Figure 17 below shows LUMA’s average wait time at LUMA’s customer service centers. The figure shows that the average wait time has fluctuated between 6 to 15 minutes. The Energy Bureau notes that LUMA’s reported average wait times are substantially below the baseline level of 31 minutes. This is a significant improvement relative to the baseline.

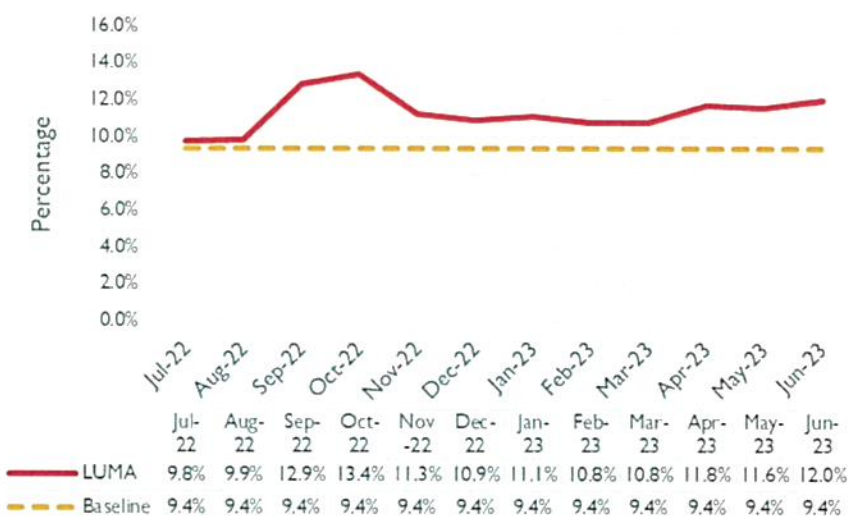
Figure 17 Average Wait Time Customer Service Center



Percent of Bills Estimated vs. Read

Figure 18 below shows LUMA’s percent of bills estimated versus read. The higher the percentage, the more bills are estimated versus actually read. The Energy Bureau notes that LUMA’s reported percentage of bills estimated has increased on average relative to both last year’s value and the baseline of 9.4%. In its October 31 Submission, LUMA states it has key initiatives in progress and completed to improve meter reading operations.³⁵

Figure 18 Bills: Percent Estimated Versus Read



³⁵ See LUMA’s October 31 Submission, Response ROI-LUMA-MI-2019-0007-R2-16OCT23-011.

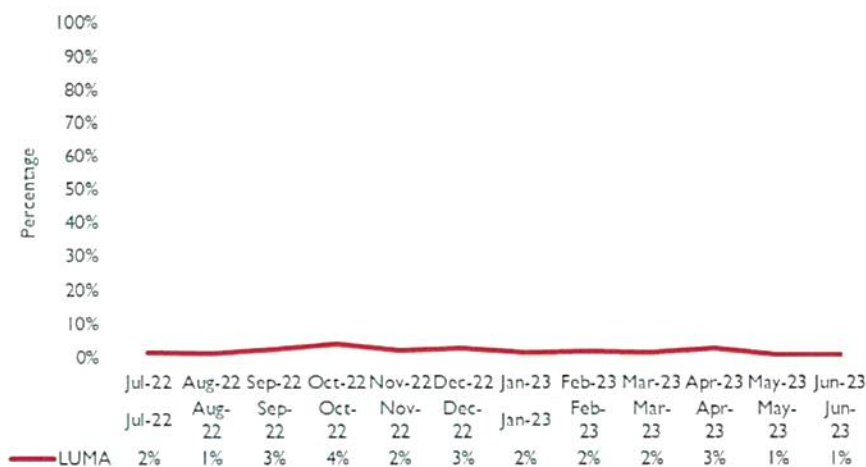


Human Resources

Turnover Rate

In its June 20 Motion, LUMA began to report “Turnover Rate” instead of Absenteeism, as shown in Table 1. LUMA defines turnover rate as the number of terminated employees divided by the total employees at end of period.³⁶ The Energy Bureau notes that LUMA’s FY23 turnover rate has increased slightly on average relative to FY22 (2.1 percent versus 1.7 percent). However, this value is consistent with or lower than the United States Bureau of Labor Statistics data on average separation rates for utilities from this period.³⁷

Table 1. LUMA Employee Turnover Rate



Budgeted and Actual Head Counts

LUMA has been reporting the total number of budgeted and actual employees since June 2021.



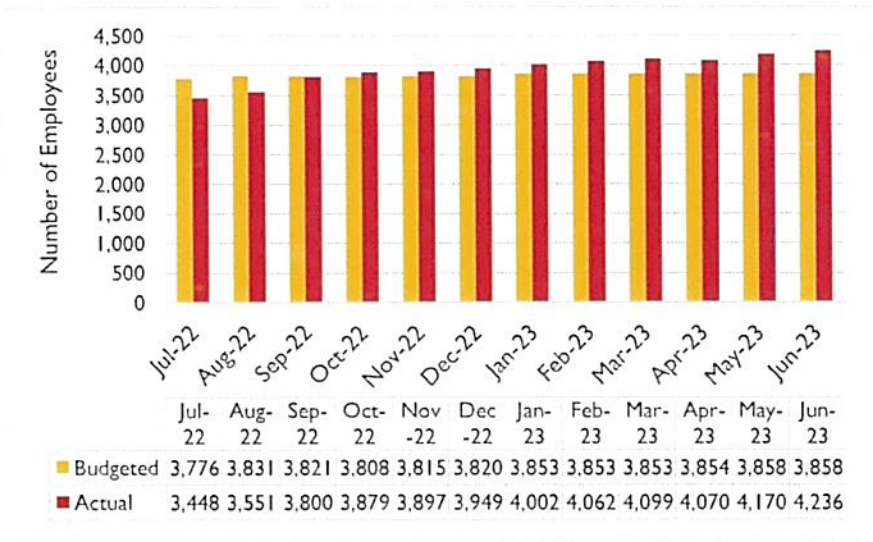
³⁶ LUMA response TC-RFI-LUMA-MI-19-0007-220224-PREB-005.

³⁷ US Department of Labor. August 2023. *Job Openings and Labor Turnover*. Available at: <https://www.bls.gov/news.release/pdf/jolts.pdf> (last verified December 15, 2023).

Figure 19 shows the number of employees for LUMA over the last twelve months. As of October 2022, actual employees have exceeded the budgeted number of employees. The Bureau has categorized these metrics as under review and has included questions on this in Attachment D.



Figure 19 LUMA Employee Headcount



Renewable Energy

Figure 20 and



Figure 21 below show the amount of installed distributed solar and battery storage capacity. The amount of capacity installed continues to steadily increase, likely due to natural market adoption drivers. The amount of distributed solar installed in Puerto Rico has increased by 54 percent over the last year, while the amount of battery storage has almost doubled relative to FY22. On average over FY23, LUMA interconnected roughly 2,900 new distributed solar photovoltaic (PV) systems and 2,800 new battery storage systems per month. This is a substantial increase relative to the installation rates reported in years prior. For reference, PREPA installed about 570 new distributed solar systems per month in FY2020.

Figure 20 Distributed Solar Capacity



Figure 21 BESS Installed Capacity



Attachment B: FY23 Metrics Comparison Tables

See separate PDF.

Attachment C: Questions on Reliability

1. While the following districts have experienced shorter outage durations in FY23 than in FY22, the average monthly outage durations are still higher than the system average of 102 minutes. For each of the following districts, provide additional details and explanation on the topic of why these operational districts experience longer outages than the rest of the system and how LUMA plans to address this issue going forward.
 - a. Bayamón
 - b. Humacao
 - c. Mayagüez
 - d. San Juan
2. In the operational district of Utuado, the average monthly outage duration for FY23 was 202 minutes. This was an increase relative to last year's value of 173 minutes. This is also nearly double the system average outage duration. Provide additional details and an explanation on why this district experiences longer outages than the rest of the system and how LUMA plans to address this issue going forward.
3. For each of the following districts, provide additional details and explanation on the topic of why these districts experience more frequent outages than the rest of the system and how LUMA plans to address this issue going forward.
 - a. Utuado
 - b. Bayamón
 - c. Humacao
 - d. Mayagüez
 - e. San Juan
4. Refer to LUMA's reported values for "Monthly SAIFI (T&D)" in the October 31 submission. The value reported for the "System" subgroup for June 2023 was 0.88-- the highest value that LUMA has reported since taking over system operation. Please explain what factors contributed to this increase and how LUMA plans to improve upon this going forward.



Attachment D: Questions on Metrics Requiring Additional Clarification

1. Capital expenses vs. budget
 - a. Please explain the reasons for the average variance of -26 percent between projected capital spending and actuals in FY2023.
 - b. State how this variance would be different for FY23 if LUMA had reported this metric as YTD actual spending versus budget.
2. Distribution line inspections
 - a. How does LUMA define an inspection?
 - b. How does this compare with the methodology and values proposed to be used in Docket NEPR-AP-2020-0025?
3. Transmission line inspections
 - a. How does LUMA define an inspection?
 - b. How does this compare with the methodology and values proposed to be used in Docket NEPR-AP-2020-0025?
4. T&D substation inspections
 - a. How does LUMA define an inspection?
 - b. How does this compare with the methodology and values proposed to be used in Docket NEPR-AP-2020-0025?
5. Days Sales Outstanding
 - a. How does LUMA's methodology for calculating DSO in this docket compare with the methodology and values proposed to be used in Docket NEPR-AP-2020-0025?
6. Net monthly work orders balance
 - a. Explain the reason for the increase in work orders relative to FY22.
 - b. How long does it take LUMA on average to resolve work orders?
 - c. How does LUMA currently track and define work orders?
 - d. Explain if and how LUMA currently categorizes its work orders.
 - e. Does LUMA have the data available to report work orders balance by category?
7. Percent of Customers on AMI
 - a. Explain why the percentage of customers on AMI for Guánica is higher in June 2022 than prior and following months.
 - b. If this is an error, please provide the correct value.
8. Budgeted and actual headcounts by employee type
 - a. Please explain the reasons for the actual employee headcounts exceeding the budgeted headcounts in FY23, particularly in the Operations and Support Services sub-groups.
9. Number of disconnections
 - a. Please describe LUMA's approach to customer disconnection now that the moratorium has ended.
10. Number of curtailed hours from RPS-eligible capacity
 - a. What protocol is LUMA following to determine when to curtail renewable resources?
 - b. Describe how LUMA's curtailment protocol follows the System Operation Principles reviewed and approved in NEPR-MI-2021-0001.
11. Non-Technical Losses as a Percent of Net Generation
 - a. LUMA's reported average net technical losses as a percent of net generation increased slightly in 2023 relative to 2022. Explain the reasons for this increase.
12. Non-Technical Loss Reduction as a Percent of Net Generation
 - a. Explain LUMA's methodology for calculating non-technical loss reduction as a percentage of net generation. Specify how a negative versus positive value for this value should be interpreted.
13. Cost of energy purchased from thermal PPOA's
 - a. In the Resumen Metricas file included in LUMA's October 31 Motion, the cost of energy purchased from thermal PPOA's numbers on the "T&D" tab are reported as less than \$0.10/MWh. Please explain the reason for these low values and state



whether these are being reported in \$/kWh, despite the unit of measure column stating \$/MWh.

14. Inventory Control

- a. Explain PREPA's strategy on fuel inventory control. For example, does PREPA target a certain range of fuel inventory to retain at the end of the month relative to the fuel available at the beginning of the month?
- b. Explain Genera's strategy on fuel inventory control. For example, does Genera target a certain range of fuel inventory to retain at the end of the month relative to the fuel available at the beginning of the month? If it differs significantly than PREPA's strategy, explain why.

15. Fleet out of service

- a. In the Resumen Metricas file included in LUMA's October 31 Motion, the fleet out of service numbers on the "Generation" tab are between 67 percent and 88 percent for the months of February through June 2022. Please explain the reason for these high out of service values.
- b. If this data is in error, please provide the corrected values.

16. Emissions of SO₂, NO_x, CO₂, PM, Hg and other regulated pollutants (system)

- a. How has PREPA been calculating and reporting this number?
- b. Refer to the prior quarterly reports that PREPA has provided. This value fluctuates significantly between 313,000 tons and 2,500 tons. Explain the reason for this variation.
- c. Which pollutants are Genera currently tracking?
- d. Does Genera currently have the ability to report these pollutants separately? If no, when does Genera expect to be able to report this?



Table 1. LUMA's FY23 Performance for Metrics Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	Proposed Benchmark	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Safety	OSHA DART Rate	T&D	Rate	Below	4.8	1.1	1.3	1.8	1.3	IMPROVED	IMPROVED
Safety	OSHA Severity Rate	T&D	Rate	Below	31.0	To be determined	14.1	10.7	18.0	IMPROVED	NOT IMPROVED
Safety	OSHA Fatalities	T&D	Rate	Below	0.0	0.0	0.0	0.0	0.1	NOT IMPROVED	NOT IMPROVED
Safety	OSHA Recordable Rate	T&D	Rate	Below	6.9	2.3	1.7	2.9	2.2	IMPROVED	IMPROVED
Finance	Operational expenses vs. budget	T&D	Percentage	Below	N/A*	Within Budget	N/A*	5%	-2%	N/A**	IMPROVED
Finance	Capital expenses vs. budget	T&D	Percentage	Above	N/A*	Within Budget	N/A*	-68%	-26%	N/A**	IMPROVED
Reliability	Distribution line inspections	System	Number of inspections	Above	N/A*	To be determined	N/A*	54	32	N/A**	UNDER REVIEW
Reliability	Transmission line inspections	System	Number of inspections	Above	N/A*	To be determined	N/A*	21	30	N/A**	UNDER REVIEW
Reliability	T&D substation inspections	System	Number of inspections	Above	N/A*	To be determined	N/A*	9	33	N/A**	UNDER REVIEW
Reliability	SAIDI (T&D) 12-month rolling average	System	Minutes	Below	1,243	102	1,340	1,564	1,218	MET BASELINE	IMPROVED
Reliability	SAIFI (T&D) 12-month rolling average	System	Interruptions per customer	Below	10.6	1.0	8.0	7.5	7.0	IMPROVED	IMPROVED
Finance	DSO (Days Sales Outstanding)	Government customers	Days	Below	619	48	490	179	167	IMPROVED	IMPROVED
Finance	DSO (Days Sales Outstanding)	General customers	Days	Below	132	48	126	114	124	IMPROVED	NOT IMPROVED
Finance	Overtime***		Percentage	Below	N/A*	To be determined	N/A*	27%	25%	N/A**	IMPROVED
Customer Service	Call abandonment rate		Percentage	Below	N/A*	To be determined	N/A*	15%	9%	N/A**	IMPROVED
Customer Service	Average speed to answer		Minutes	Below	8.25	0.4	5.7	3.2	1.7	IMPROVED	IMPROVED

* Metric was not yet being reported for this year. No data available.

** No baseline data is available. A comparison cannot be made.

*** In the Bureau's October 16 Resolution, it asked a clarifying question about the overtime metric. In LUMA's October 31 Submission of Responses to ROIs, it provided an Excel spreadsheet stating Overtime YTD values for FY22 and FY23. The data shown in this table reflect the numbers provided by LUMA in attachment 20231031 Overtime-ROI-LUMA-MI-2019-0007-R2-16OCT23-11.xlsx



Table 2. LUMA's FY23 Performance for Metrics with Benchmarks and Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	Proposed Benchmark	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly CAIDI	System	Minutes	Below	117	101	190	207	175	NOT IMPROVED	IMPROVED
Finance	DSO (Days Sales Outstanding)	Total customers	Days	Below	197	48	170	123	129	IMPROVED	NO SUBSTANTIAL CHANGE
Customer Service	Percent of customer calls answered		Percentage	Above	N/A*	100%	29%	81%	88%	N/A**	IMPROVED
Customer Service	Wait time in Customer Service Centers		Minutes	Below	30.9	30.9	15.8	8.9	8.3	IMPROVED	IMPROVED
Customer Service	Average time to resolve billing disputes (Act 57 Claims)		Days	Below	Awaiting revision	No more than 60 days	N/A*	57	54	N/A**	IMPROVED
Customer Service	Percent of customers billed		Percentage	Above	99.2%	100.0%	99.4%	98.8%	99.3%	MET BASELINE	NO SUBSTANTIAL CHANGE
Customer Service	Percent of bills estimated vs. read		Percentage	Below	9.4%	5.0%	8.4%	10.8%	11.3%	NOT IMPROVED	NOT IMPROVED
Customer Service	Average time to respond to service and outage complaints		Days	Below	N/A*	To be determined	N/A	9	5	N/A**	IMPROVED
RE and DSM	Generation from RPS-eligible PPOA's (percent of sales)	Total	Percentage	Above	2.6%	40% by 2025 (includes DERs)	2.7%	2.8%	2.5%	NOT IMPROVED	NOT IMPROVED

*Metric was not yet being reported for this year. No data available.

**No baseline data is available. A comparison cannot be made.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Safety	12-Month Rolling OSHA DART Rate		Rate	Below	N/A	N/A	1.73	1.30	N/A*	IMPROVED
Safety	12-Month Rolling OSHA Severity Rate		Rate	Below	N/A	N/A	10.37	17.78	N/A*	NOT IMPROVED
Safety	12-Month Rolling OSHA Fatality Rate		Rate	Below	N/A	N/A	0.00	0.08	N/A*	NOT IMPROVED
Safety	12-Month Rolling OSHA Recordable Rate		Rate	Below	N/A	N/A	2.83	2.19	N/A*	IMPROVED
Human Resources	Budgeted headcounts by employee type	Total	Number	N/A	N/A	N/A	3,236	3,833	N/A*	UNDER REVIEW
Human Resources	Budgeted headcounts by employee type	Customer Experience	Number	N/A	N/A	N/A	649	835	N/A*	UNDER REVIEW
Human Resources	Budgeted headcounts by employee type	Operations	Number	N/A	N/A	N/A	1,574	1,487	N/A*	UNDER REVIEW
Human Resources	Budgeted headcounts by employee type	Support Services	Number	N/A	N/A	N/A	472	604	N/A*	UNDER REVIEW
Human Resources	Budgeted headcounts by employee type	Utility Transformation	Number	N/A	N/A	N/A	542	908	N/A*	UNDER REVIEW
Human Resources	Actual headcounts by employee type	Total	Number	N/A	N/A	N/A	3,274	3,930	N/A*	UNDER REVIEW
Human Resources	Actual headcounts by employee type	Customer Experience	Number	N/A	N/A	N/A	703	763	N/A*	UNDER REVIEW
Human Resources	Actual headcounts by employee type	Operations	Number	N/A	N/A	N/A	1,574	1,912	N/A*	UNDER REVIEW
Human Resources	Actual headcounts by employee type	Support Services	Number	N/A	N/A	N/A	451	575	N/A*	UNDER REVIEW

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Human Resources	Actual headcounts by employee type	Utility Transformation	Number	N/A	N/A	N/A	547	681	N/A*	UNDER REVIEW
Human Resources	Turnover rate		Percentage	Below	N/A	N/A	1.7%	2.1%	N/A*	NOT IMPROVED
Generation	Average revenue per kilowatt-hour sold		\$/kWh	N/A	\$0.22	\$0.20	\$0.26	\$0.28	N/A	UNDER REVIEW
Reliability	Monthly SAIDI Distribution	System	Minutes	Below	79	86	100	78	MET BASELINE	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	System	Minutes	Below	24	25	30	24	MET BASELINE	IMPROVED
Reliability	Monthly SAIDI (T&D)	System	Minutes	Below	103	112	130	102	MET BASELINE	IMPROVED
Reliability	Monthly SAIFI Distribution	System	Interruptions per customer	Below	0.46	0.43	0.41	0.40	IMPROVED	NO SUBSTANTIAL CHANGE
Reliability	Monthly SAIFI Transmission Substation	System	Interruptions per customer	Below	0.24	0.23	0.22	0.18	IMPROVED	IMPROVED
Reliability	Monthly SAIFI (T&D)	System	Interruptions per customer	Below	0.70	0.67	0.63	0.58	IMPROVED	IMPROVED
Finance	Net monthly work orders balance		Number of work orders	Below	274,821	324,895	170,617	223,366	UNDER REVIEW	UNDER REVIEW
Reliability	Monthly SAIDI Distribution	Arecibo	Minutes	Below	N/A	68	158	35	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Utua	Minutes	Below	N/A	157	143	127	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Bayamón	Minutes	Below	N/A	69	125	101	N/A**	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIDI Distribution	Vega Baja	Minutes	Below	N/A	58	58	68	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Distribution	Barranquitas	Minutes	Below	N/A	86	44	79	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Distribution	Caguas	Minutes	Below	N/A	123	146	69	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Humacao	Minutes	Below	N/A	107	119	88	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Canóvanas	Minutes	Below	N/A	102	55	60	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Distribution	Fajardo	Minutes	Below	N/A	44	47	43	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Aguadilla	Minutes	Below	N/A	128	58	65	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Distribution	Mayagüez	Minutes	Below	N/A	151	232	123	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Guayama	Minutes	Below	N/A	28	24	25	N/A**	NO SUBSTANTIAL CHANGE
Reliability	Monthly SAIDI Distribution	Ponce	Minutes	Below	N/A	85	81	45	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	San Juan	Minutes	Below	N/A	n/a	108	102	N/A**	IMPROVED
Reliability	Monthly SAIDI Distribution	Yauco	Minutes	Below	N/A	67	49	86	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Arecibo	Minutes	Below	N/A	31	59	13	N/A**	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIDI Transmission Substation	Utado	Minutes	Below	N/A	73	29	75	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Bayamón	Minutes	Below	N/A	3	48	26	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Vega Baja	Minutes	Below	N/A	13	17	36	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Barranquitas	Minutes	Below	N/A	36	18	13	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Caguas	Minutes	Below	N/A	12	20	15	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Humacao	Minutes	Below	N/A	25	39	29	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Canóvanas	Minutes	Below	N/A	6	13	15	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Fajardo	Minutes	Below	N/A	9	8	20	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Aguadilla	Minutes	Below	N/A	52	23	42	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Mayagüez	Minutes	Below	N/A	59	67	27	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Guayama	Minutes	Below	N/A	32	20	8	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	Ponce	Minutes	Below	N/A	40	50	20	N/A**	IMPROVED
Reliability	Monthly SAIDI Transmission Substation	San Juan	Minutes	Below	N/A	n/a	19	16	N/A**	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIDI Transmission Substation	Yauco	Minutes	Below	N/A	72	27	36	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Arecibo	Minutes	Below	N/A	99	217	48	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	Utado	Minutes	Below	N/A	231	173	202	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Bayamón	Minutes	Below	N/A	73	174	127	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	Vega Baja	Minutes	Below	N/A	71	74	104	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Barranquitas	Minutes	Below	N/A	122	62	92	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Caguas	Minutes	Below	N/A	135	166	84	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	Humacao	Minutes	Below	N/A	132	158	117	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	Canóvanas	Minutes	Below	N/A	108	68	75	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Fajardo	Minutes	Below	N/A	53	55	63	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Aguadilla	Minutes	Below	N/A	181	81	107	N/A**	NOT IMPROVED
Reliability	Monthly SAIDI (T&D)	Mayagüez	Minutes	Below	N/A	209	299	150	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	Guayama	Minutes	Below	N/A	61	44	33	N/A**	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIDI (T&D)	Ponce	Minutes	Below	N/A	126	131	65	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	San Juan	Minutes	Below	N/A	n/a	127	118	N/A**	IMPROVED
Reliability	Monthly SAIDI (T&D)	Yauco	Minutes	Below	N/A	139	76	122	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Distribution	Arecibo	Interruptions per customer	Below	N/A	n/a	0.63	0.18	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	Utuado	Interruptions per customer	Below	N/A	n/a	0.52	0.40	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	Bayamón	Interruptions per customer	Below	N/A	n/a	0.54	0.51	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	Vega Baja	Interruptions per customer	Below	N/A	n/a	0.24	0.34	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Distribution	Barranquitas	Interruptions per customer	Below	N/A	n/a	0.15	0.33	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Distribution	Caguas	Interruptions per customer	Below	N/A	n/a	0.48	0.31	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	Humacao	Interruptions per customer	Below	N/A	n/a	0.42	0.45	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Distribution	Canóvanas	Interruptions per customer	Below	N/A	n/a	0.26	0.45	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Distribution	Fajardo	Interruptions per customer	Below	N/A	n/a	0.23	0.24	N/A**	NO SUBSTANTIAL CHANGE
Reliability	Monthly SAIFI Distribution	Aguadilla	Interruptions per customer	Below	N/A	n/a	0.19	0.27	N/A**	NOT IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIFI Distribution	Mayagüez	Interruptions per customer	Below	N/A	n/a	0.71	0.48	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	Guayama	Interruptions per customer	Below	N/A	n/a	0.13	0.17	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Distribution	Ponce	Interruptions per customer	Below	N/A	n/a	0.38	0.30	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	San Juan	Interruptions per customer	Below	N/A	n/a	0.68	0.64	N/A**	IMPROVED
Reliability	Monthly SAIFI Distribution	Yauco	Interruptions per customer	Below	N/A	n/a	0.19	0.32	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Arecibo	Interruptions per customer	Below	N/A	0.30	0.41	0.11	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Utado	Interruptions per customer	Below	N/A	0.69	0.35	0.57	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Bayamón	Interruptions per customer	Below	N/A	0.05	0.30	0.19	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Vega Baja	Interruptions per customer	Below	N/A	0.17	0.11	0.25	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Barranquitas	Interruptions per customer	Below	N/A	0.19	0.09	0.11	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Caguas	Interruptions per customer	Below	N/A	0.13	0.18	0.19	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Humacao	Interruptions per customer	Below	N/A	0.24	0.29	0.25	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Canóvanas	Interruptions per customer	Below	N/A	0.15	0.10	0.13	N/A**	NOT IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIFI Transmission Substation	Fajardo	Interruptions per customer	Below	N/A	0.17	0.10	0.17	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Aguadilla	Interruptions per customer	Below	N/A	0.50	0.18	0.17	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Mayagüez	Interruptions per customer	Below	N/A	0.42	0.42	0.21	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Guayama	Interruptions per customer	Below	N/A	0.28	0.26	0.14	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Ponce	Interruptions per customer	Below	N/A	0.24	0.28	0.15	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	San Juan	Interruptions per customer	Below	N/A	n/a	0.16	0.15	N/A**	IMPROVED
Reliability	Monthly SAIFI Transmission Substation	Yauco	Interruptions per customer	Below	N/A	0.71	0.25	0.27	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Arecibo	Interruptions per customer	Below	N/A	0.73	1.04	0.29	N/A**	IMPROVED
Reliability	Monthly SAIFI (T&D)	Utado	Interruptions per customer	Below	N/A	1.01	0.87	0.97	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Bayamón	Interruptions per customer	Below	N/A	0.50	0.83	0.70	N/A**	IMPROVED
Reliability	Monthly SAIFI (T&D)	Vega Baja	Interruptions per customer	Below	N/A	0.69	0.36	0.59	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Barranquitas	Interruptions per customer	Below	N/A	0.56	0.24	0.44	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Caguas	Interruptions per customer	Below	N/A	0.53	0.66	0.50	N/A**	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Reliability	Monthly SAIFI (T&D)	Humacao	Interruptions per customer	Below	N/A	0.72	0.71	0.70	N/A**	NO SUBSTANTIAL CHANGE
Reliability	Monthly SAIFI (T&D)	Canóvanas	Interruptions per customer	Below	N/A	0.86	0.36	0.58	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Fajardo	Interruptions per customer	Below	N/A	0.41	0.34	0.40	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Aguadilla	Interruptions per customer	Below	N/A	0.99	0.37	0.43	N/A**	NOT IMPROVED
Reliability	Monthly SAIFI (T&D)	Mayagüez	Interruptions per customer	Below	N/A	1.01	1.13	0.70	N/A**	IMPROVED
Reliability	Monthly SAIFI (T&D)	Guayama	Interruptions per customer	Below	N/A	0.45	0.39	0.31	N/A**	IMPROVED
Reliability	Monthly SAIFI (T&D)	Ponce	Interruptions per customer	Below	N/A	0.73	0.66	0.45	N/A**	IMPROVED
Reliability	Monthly SAIFI (T&D)	San Juan	Interruptions per customer	Below	N/A	n/a	0.84	0.78	N/A**	IMPROVED
Reliability	Monthly SAIFI (T&D)	Yauco	Interruptions per customer	Below	N/A	1.11	0.45	0.59	N/A**	NOT IMPROVED
Generation	Technical losses as % of net generation		Percentage	Below	N/A	8.34%	8.37%	8.35%	N/A*	NO SUBSTANTIAL CHANGE
Generation	Technical loss reduction as a % of net generation		Percentage	Above	N/A	0.000%	0.003%	-0.002%	N/A*	NOT IMPROVED
Customer Service	Cash recovered on theft		Million dollars	N/A	\$0.92	\$0.81	\$0.07	\$0.05	N/A***	N/A***
Generation	NTL as a % of net generation		Percentage	N/A	Awaiting revision	2.78%	2.78%	2.94%	N/A*	UNDER REVIEW

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.

** District definitions for SAIDI and SAIFI changed and can no longer be compared to PREPA's data from FY20.

***According to LUMA's October 31 Submission, Response ROI-LUMA-MI-2019-0007-R2-16OCT23-009, LUMA has significantly changed the theft detection and recovery process over the last 2 years to focus on theft deterrence and collection of payment when theft is detected.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Generation	NTL reduction as a % of net generation		Percentage	N/A	Awaiting revision	-0.24%	0.18%	-0.09%	N/A	UNDER REVIEW
Customer Service	Number of customer calls answered		Number of calls	Above	61,941	51,674	216,091	216,179	IMPROVED	NO SUBSTANTIAL CHANGE
Customer Service	Number of Act 57 Claims Opened		Number of cases	Above	N/A	13	366	577	N/A*	IMPROVED
Customer Service	Number of customer complaints closed by class (Act 57 Claims)	Total	Number of cases	Above	N/A	1	437	459	N/A*	IMPROVED
Customer Service	Number of customer complaints closed by class (Act 57 Claims)	Commercial	Number of cases	Above	N/A	0	45	57	N/A*	IMPROVED
Customer Service	Number of customer complaints closed by class (Act 57 Claims)	Primary	Number of cases	Above	N/A	-	12	4	N/A*	NOT IMPROVED
Customer Service	Number of customer complaints closed by class (Act 57 Claims)	Residential	Number of cases	Above	N/A	1	328	358	N/A*	IMPROVED
Customer Service	Number of customer complaints closed by class (Act 57 Claims)	Public Residential	Number of cases	Above	N/A	-	13	4	N/A*	NOT IMPROVED
Customer Service	Number of customer complaints closed by class (Act 57 Claims)	Subsidized Residential	Number of cases	Above	N/A	-	40	37	N/A*	NOT IMPROVED
Overall System	Number of customers on AMI	System	Number of customers	Above	19,691	19,681	20,110	20,274	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Bayamón	Number of customers	Above	478	477	477	479	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Caguas	Number of customers	Above	2,826	2,883	3,054	3,092	IMPROVED	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Carolina	Number of customers	Above	2,646	2,650	2,658	2,660	MET BASELINE	NO SUBSTANTIAL CHANGE

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Overall System	Number of customers on AMI	Dorado	Number of customers	Above	2,220	2,196	2,279	2,324	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Guaynabo	Number of customers	Above	452	495	495	494	IMPROVED	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Gurabo	Number of customers	Above	1,682	1,678	1,686	1,689	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	San Juan	Number of customers	Above	3,596	3,527	3,656	3,712	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Toa Alta	Number of customers	Above	3,007	2,997	3,009	3,018	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Toa Baja	Number of customers	Above	284	283	283	282	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Trujillo Alto	Number of customers	Above	2,500	2,496	2,511	2,515	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Number of customers on AMI	Guánica	Number of customers	Above	-	-	2	3	IMPROVED	IMPROVED
Overall System	Number of customers on AMI	Peñuelas	Number of customers	Above	-	-	3	5	IMPROVED	IMPROVED
Overall System	Percent of customers on AMI	System	Percentage	Above	3.72%	1.33%	1.35%	1.35%	NOT IMPROVED	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Bayamón	Percentage	Above	0.59%	0.58%	0.57%	0.57%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Caguas	Percentage	Above	5.10%	5.16%	5.47%	5.60%	IMPROVED	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Carolina	Percentage	Above	3.73%	3.70%	3.68%	3.67%	MET BASELINE	NO SUBSTANTIAL CHANGE

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Overall System	Percent of customers on AMI	Dorado	Percentage	Above	14.84%	14.41%	15.14%	15.40%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Guaynabo	Percentage	Above	1.09%	1.18%	1.19%	1.19%	IMPROVED	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Gurabo	Percentage	Above	10.17%	10.00%	10.23%	10.33%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	San Juan	Percentage	Above	2.10%	2.05%	2.14%	2.16%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Toa Alta	Percentage	Above	13.23%	13.01%	13.24%	13.35%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Toa Baja	Percentage	Above	0.96%	0.95%	0.92%	0.92%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Trujillo Alto	Percentage	Above	9.77%	9.82%	9.80%	9.75%	MET BASELINE	NO SUBSTANTIAL CHANGE
Overall System	Percent of customers on AMI	Guánica	Percentage	Above	0.00%	n/a	1.41%	0.03%	IMPROVED	NOT IMPROVED
Overall System	Percent of customers on AMI	Peñuelas	Percentage	Above	0.00%	0.00%	0.03%	0.06%	IMPROVED	IMPROVED
Customer Service	Percent of automatically-generated NTL leads found to be occurrences of theft		Percentage	N/A	N/A	N/A	N/A	15.56%	N/A*	N/A***
Customer Service	Number of disconnections by customer class		Number of disconnections	Below	118,853	0	0	2524	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by customer class	Residential	Number of disconnections	Below	Missing	0	0	0	N/A	UNDER REVIEW
Customer Service	Number of disconnections by customer class	Commercial	Number of disconnections	Below	Missing	0	0	2480	N/A	UNDER REVIEW

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.

*** LUMA requested to delay reporting of this metric to allow time to train its team on investigating energy irregularities. Data is available beginning FY23.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Customer Service	Number of disconnections by customer class	Industrial	Number of disconnections	Below	Missing	0	0	17	N/A	UNDER REVIEW
Customer Service	Number of disconnections by customer class	Public Lighting	Number of disconnections	Below	Missing	0	0	0	N/A	UNDER REVIEW
Customer Service	Number of disconnections by customer class	Agriculture	Number of disconnections	Below	Missing	0	0	21	N/A	UNDER REVIEW
Customer Service	Number of disconnections by customer class	Others	Number of disconnections	Below	Missing	0	0	6	N/A	UNDER REVIEW
Customer Service	Number of disconnections by Area	Total	Number of disconnections	Below	118,853	0	0	2524	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by Area	Arecibo	Number of disconnections	Below	17,382	0	0	216	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by Area	Bayamón	Number of disconnections	Below	18,467	0	0	393	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by Area	Caguas	Number of disconnections	Below	15,565	0	0	369	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by Area	Mayagüez	Number of disconnections	Below	20,163	0	0	258	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by Area	Metro	Number of disconnections	Below	28,291	0	0	983	UNDER REVIEW	UNDER REVIEW
Customer Service	Number of disconnections by Area	Ponce	Number of disconnections	Below	12,490	0	0	305	UNDER REVIEW	UNDER REVIEW
Finance	Timely submission of Monthly Operating Report		Days	Below	21	25	35	20	MET BASELINE	IMPROVED
Finance	Accounts Payable days outstanding		Days	Below	19	21	12	12	IMPROVED	NO SUBSTANTIAL CHANGE



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
Fleet	Fleet out of service (system)	T&D	Percentage	Below	16%	20%	14%	4%	IMPROVED	IMPROVED
Fleet	Total available vehicles in service (system)	T&D	Number of vehicles	Above	2,709	2,734	1,406	2,037	NOT IMPROVED	IMPROVED
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Total	Hours	Below	N/A	0	4	65	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Pattern Santa Isabel	Hours	Below	N/A	0	0	25	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Punta Lima Wind Farm	Hours	Below	N/A	0	0	0	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	AES Ilumina	Hours	Below	N/A	0	0	12	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Windmar Cantera Martinó	Hours	Below	N/A	0	0	0	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	San Fermín Solar Farm	Hours	Below	N/A	0	0	0	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Horizon Energy	Hours	Below	N/A	0	0	3	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Landfill Gas Technologies Fajardo (LFGT)	Hours	Below	N/A	0	0	0	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Oriana Energy	Hours	Below	N/A	0	0	14	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Windmar Coto Laurel SolarFarm	Hours	Below	N/A	0	0	0	N/A*	UNDER REVIEW

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Humacao Solar Project	Hours	Below	N/A	0	0	11	N/A*	UNDER REVIEW
RE and DSM	Number of curtailed hours from RPS-eligible capacity	Landfill Gas Technologies Toa Baja (LFGT)	Hours	Below	N/A	0	4	0	N/A*	UNDER REVIEW
RE and DSM	Operational RPS-eligible capacity		MW	Above	273	269	227	227	NOT IMPROVED	NO SUBSTANTIAL CHANGE
RE and DSM	Contracted but not operational RPS-eligible capacity		MW	Below	1,208	728	175	175	IMPROVED	NO SUBSTANTIAL CHANGE
RE and DSM	Average delay in anticipated online date of RPS-eligible projects		Days	Below	1,493	1,772	0	0	N/A****	N/A****
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Total	GWh	Above	34.13	36.36	37.80	31.72	NOT IMPROVED	NOT IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Total	MW	Above	170.19	205.69	306.51	471.30	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Aguadilla	MW	Above	8.17	9.22	12.72	17.32	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Arecibo	MW	Above	4.37	5.10	8.35	11.73	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Barranquitas	MW	Above	1.81	2.19	3.86	7.20	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Bayamón	MW	Above	6.95	9.01	15.46	25.20	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Caguas Norte	MW	Above	9.22	11.10	17.80	28.54	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Caguas Sur	MW	Above	2.79	3.53	7.44	12.76	IMPROVED	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.

**** According to LUMA's October 31 Submission, Response ROI-LUMA-MI-2019-0007-R2-16OCT23-008, no new RPS-eligible capacity has come online since LUMA commenced operations.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Canóvanas	MW	Above	6.53	7.43	10.90	16.16	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Carolina	MW	Above	4.81	5.99	10.21	17.94	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Cayey	MW	Above	2.69	3.42	5.71	9.30	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Dorado	MW	Above	6.50	8.15	11.74	19.09	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Fajardo	MW	Above	3.46	4.17	5.99	10.33	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Guayama	MW	Above	3.31	4.20	6.45	11.50	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Hato Rey	MW	Above	2.12	2.61	3.29	4.46	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Humacao	MW	Above	3.85	4.78	7.93	13.65	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Juana Díaz	MW	Above	3.17	4.36	6.72	11.29	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Juncos	MW	Above	6.50	7.36	10.43	15.78	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Manatí	MW	Above	4.26	4.93	8.63	14.51	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Mayagüez	MW	Above	4.37	5.51	8.13	11.23	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Minillas	MW	Above	4.63	5.54	9.30	16.20	IMPROVED	IMPROVED



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Monacillos	MW	Above	19.52	23.73	30.00	34.59	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Palo Seco	MW	Above	6.06	7.00	10.04	15.12	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Ponce Norte	MW	Above	3.10	3.32	4.67	7.78	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Ponce Sur	MW	Above	5.00	6.06	7.97	12.19	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Puerto Nuevo	MW	Above	8.17	9.80	13.13	20.58	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Quebradillas	MW	Above	5.18	6.48	9.66	14.45	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Río Piedras	MW	Above	1.12	1.48	2.57	4.47	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Sabana Llena	MW	Above	3.62	4.67	7.99	13.71	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	San Germán	MW	Above	7.08	8.48	13.21	19.41	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	San Juan	MW	Above	6.95	7.61	7.09	4.22	NOT IMPROVED	NOT IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	San Sebastián	MW	Above	2.33	2.76	4.32	6.06	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Santa Isabel	MW	Above	3.94	4.96	7.88	13.81	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Utado	MW	Above	0.85	1.02	2.10	2.76	IMPROVED	IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Vega Baja	MW	Above	4.16	5.30	8.36	17.83	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Photovoltaic	Yauco	MW	Above	3.61	4.40	6.45	10.11	IMPROVED	IMPROVED
RE and DSM	Total installed distributed generation capacity - Wind	Total	MW	Above	0.02	0.02	0.02	0.02	NOT IMPROVED	NO SUBSTANTIAL CHANGE
RE and DSM	Total installed distributed generation capacity - Wind	Quebradillas	MW	Above	0.02	0.02	0.02	0.02	MET BASELINE	NO SUBSTANTIAL CHANGE
RE and DSM	Total installed distributed generation capacity - Wind	Santa Isabel	MW	Above	0.00	0.00	0.00	0.00	NOT IMPROVED	NOT IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Total	MW	Above	1.50	4.18	10.75	18.60	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Aguadilla	MW	Above	0.05	0.11	0.34	0.54	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Arecibo	MW	Above	0.05	0.11	0.25	0.47	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Barranquitas	MW	Above	0.03	0.04	0.24	0.30	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Bayamón	MW	Above	0.06	0.28	0.69	1.00	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Caguas Norte	MW	Above	0.08	0.24	0.70	1.24	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Caguas Sur	MW	Above	0.02	0.10	0.44	0.54	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Canóvanas	MW	Above	0.03	0.11	0.34	0.65	IMPROVED	IMPROVED



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Carolina	MW	Above	0.04	0.14	0.52	0.85	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Cayey	MW	Above	0.04	0.08	0.24	0.39	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Dorado	MW	Above	0.06	0.21	0.39	0.86	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Fajardo	MW	Above	0.04	0.07	0.23	0.62	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Guayama	MW	Above	0.01	0.11	0.27	0.53	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Hato Rey	MW	Above	0.02	0.04	0.08	0.11	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Humacao	MW	Above	0.04	0.09	0.37	0.67	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Juana Díaz	MW	Above	0.02	0.14	0.26	0.50	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Juncos	MW	Above	0.02	0.09	0.38	0.53	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Manatí	MW	Above	0.04	0.10	0.40	0.66	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Mayagüez	MW	Above	0.02	0.11	0.28	0.32	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Minillas	MW	Above	0.07	0.10	0.45	0.75	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Monacillos	MW	Above	0.26	0.45	0.58	0.28	MET BASELINE	NOT IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Palo Seco	MW	Above	0.03	0.12	0.37	0.48	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Ponce Norte	MW	Above	-0.06	0.07	0.17	0.33	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Ponce Sur	MW	Above	0.03	0.11	0.24	0.43	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Puerto Nuevo	MW	Above	0.07	0.18	0.34	0.98	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Quebradillas	MW	Above	0.15	0.13	0.34	0.53	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Río Piedras	MW	Above	0.01	0.06	0.10	0.22	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Sabana Llana	MW	Above	0.04	0.15	0.36	0.63	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	San Germán	MW	Above	0.06	0.11	0.52	0.66	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	San Juan	MW	Above	0.05	0.06	-0.35	0.10	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	San Sebastián	MW	Above	0.02	0.04	0.18	0.13	IMPROVED	NOT IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Santa Isabel	MW	Above	0.02	0.14	0.33	0.63	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Utua	MW	Above	0.01	0.03	0.11	0.05	IMPROVED	NOT IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Vega Baja	MW	Above	0.03	0.14	0.37	1.25	IMPROVED	IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed distributed generation capacity per month - Photovoltaic	Yauco	MW	Above	0.02	0.09	0.24	0.37	IMPROVED	IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Wind	Total	MW	Above	0.00	0.00	0.00	0.00	NOT IMPROVED	NOT IMPROVED
RE and DSM	Incremental installed distributed generation capacity per month - Wind	Quebradillas	MW	Above	0.00	0.00	0.00	0.00	MET BASELINE	NO SUBSTANTIAL CHANGE
RE and DSM	Incremental installed distributed generation capacity per month - Wind	Santa Isabel	MW	Above	0.00	0.00	0.00	0.00	NOT IMPROVED	NOT IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Total	Number of facilities	Above	16,467	22,338	40,727	69,961	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Aguadilla	Number of facilities	Above	890	1,070	1,646	2,469	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Arecibo	Number of facilities	Above	444	568	1,195	1,991	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Barranquitas	Number of facilities	Above	261	329	626	1,190	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Bayamón	Number of facilities	Above	696	1,042	2,077	3,713	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Caguas Norte	Number of facilities	Above	926	1,226	2,461	4,117	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Caguas Sur	Number of facilities	Above	467	605	1,342	2,303	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Canóvanas	Number of facilities	Above	545	728	1,444	2,579	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Carolina	Number of facilities	Above	579	762	1,541	2,770	IMPROVED	IMPROVED



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of distributed generation installations - Photovoltaic	Cayey	Number of facilities	Above	319	423	863	1,551	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Dorado	Number of facilities	Above	555	788	1,441	2,491	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Fajardo	Number of facilities	Above	343	469	789	1,490	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Guayama	Number of facilities	Above	599	791	1,195	2,146	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Hato Rey	Number of facilities	Above	69	99	172	308	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Humacao	Number of facilities	Above	499	649	1,256	2,323	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Juana Díaz	Number of facilities	Above	493	727	1,179	1,995	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Juncos	Number of facilities	Above	451	601	1,185	2,150	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Manatí	Number of facilities	Above	539	665	1,332	2,434	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Mayagüez	Number of facilities	Above	547	698	1,158	1,718	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Minillas	Number of facilities	Above	459	648	1,355	2,532	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Monacillos	Number of facilities	Above	821	1,326	2,418	3,867	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Palo Seco	Number of facilities	Above	376	536	1,087	1,929	IMPROVED	IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of distributed generation installations - Photovoltaic	Ponce Norte	Number of facilities	Above	337	466	733	1,323	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Ponce Sur	Number of facilities	Above	373	549	919	1,616	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Puerto Nuevo	Number of facilities	Above	448	697	1,326	2,284	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Quebradillas	Number of facilities	Above	691	904	1,430	2,237	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Río Piedras	Number of facilities	Above	112	180	366	614	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Sabana Llana	Number of facilities	Above	399	593	1,179	2,066	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	San Germán	Number of facilities	Above	1,046	1,315	2,204	3,421	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	San Juan	Number of facilities	Above	104	158	256	375	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	San Sebastián	Number of facilities	Above	256	324	519	832	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Santa Isabel	Number of facilities	Above	635	837	1,343	2,429	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Utuado	Number of facilities	Above	147	164	311	461	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Vega Baja	Number of facilities	Above	514	718	1,313	2,481	IMPROVED	IMPROVED
RE and DSM	Total number of distributed generation installations - Photovoltaic	Yauco	Number of facilities	Above	529	685	1,066	1,757	IMPROVED	IMPROVED



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of distributed generation installations - Wind	Total	Number of facilities	Above	2	2	2	1	NOT IMPROVED	NOT IMPROVED
RE and DSM	Total number of distributed generation installations - Wind	Quebradillas	Number of facilities	Above	1	1	1	1	MET BASELINE	NO SUBSTANTIAL CHANGE
RE and DSM	Total number of distributed generation installations - Wind	Santa Isabel	Number of facilities	Above	1	1	1	0	NOT IMPROVED	NOT IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Total	Number of facilities	Above	573	703	2,104	2,861	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Aguadilla	Number of facilities	Above	13	18	64	85	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Arecibo	Number of facilities	Above	14	20	63	84	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Barranquitas	Number of facilities	Above	5	8	38	57	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Bayamón	Number of facilities	Above	37	45	115	154	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Caguas Norte	Number of facilities	Above	33	38	135	165	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Caguas Sur	Number of facilities	Above	13	19	84	90	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Canóvanas	Number of facilities	Above	20	23	89	104	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Carolina	Number of facilities	Above	22	22	95	121	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Cayey	Number of facilities	Above	10	13	53	62	IMPROVED	IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Dorado	Number of facilities	Above	20	29	75	98	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Fajardo	Number of facilities	Above	12	14	43	70	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Guayama	Number of facilities	Above	20	23	50	94	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Hato Rey	Number of facilities	Above	3	4	8	14	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Humacao	Number of facilities	Above	13	16	77	107	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Juana Díaz	Number of facilities	Above	19	27	52	79	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Juncos	Number of facilities	Above	13	17	72	89	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Manatí	Number of facilities	Above	14	19	73	118	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Mayagüez	Number of facilities	Above	18	14	50	57	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Minillas	Number of facilities	Above	19	22	84	116	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Monacillos	Number of facilities	Above	47	59	111	133	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Palo Seco	Number of facilities	Above	16	21	64	77	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Ponce Norte	Number of facilities	Above	18	14	34	58	IMPROVED	IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Ponce Sur	Number of facilities	Above	13	18	46	64	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Puerto Nuevo	Number of facilities	Above	26	30	69	91	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Quebradillas	Number of facilities	Above	20	25	55	87	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Río Piedras	Number of facilities	Above	7	10	18	25	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Sabana Llana	Number of facilities	Above	20	26	66	81	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	San Germán	Number of facilities	Above	21	23	100	124	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	San Juan	Number of facilities	Above	7	6	10	12	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	San Sebastián	Number of facilities	Above	7	6	22	31	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Santa Isabel	Number of facilities	Above	19	28	57	112	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Utua	Number of facilities	Above	2	3	15	16	IMPROVED	NO SUBSTANTIAL CHANGE
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Vega Baja	Number of facilities	Above	20	26	72	120	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per month - Photovoltaic	Yauco	Number of facilities	Above	13	18	45	67	IMPROVED	IMPROVED
RE and DSM	Incremental number of distributed generation installations per Month - Wind	Total	Number of facilities	Above	0	0	0	0	NOT IMPROVED	NOT IMPROVED

Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of distributed generation installations per Month - Wind	Quebradillas	Number of facilities	Above	0	0	0	0	MET BASELINE	NO SUBSTANTIAL CHANGE
RE and DSM	Incremental number of distributed generation installations per Month - Wind	Santa Isabel	Number of facilities	Above	0	0	0	0	NOT IMPROVED	NOT IMPROVED
RE and DSM	Total installed BESS capacity	Total	kWh	Above	N/A	33,425	537,097	1,020,987	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Adjuntas	kWh	Above	N/A	29	528	903	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Aguada	kWh	Above	N/A	140	2,447	4,884	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Aguadilla	kWh	Above	N/A	173	3,548	8,876	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Aguas Buenas	kWh	Above	N/A	51	1,044	2,685	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Aibonito	kWh	Above	N/A	51	965	2,561	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Añasco	kWh	Above	N/A	74	1,757	3,851	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Arecibo	kWh	Above	N/A	423	7,939	17,525	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Arroyo	kWh	Above	N/A	91	1,856	4,911	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Barceloneta	kWh	Above	N/A	103	2,175	5,993	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Barranquitas	kWh	Above	N/A	41	843	2,301	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed BESS capacity	Bayamón	kWh	Above	N/A	1,002	21,654	50,633	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Cabo Rojo	kWh	Above	N/A	316	6,148	13,414	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Caguas	kWh	Above	N/A	710	15,663	35,368	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Camuy	kWh	Above	N/A	93	1,919	4,756	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Canóvanas	kWh	Above	N/A	221	5,090	11,788	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Carolina	kWh	Above	N/A	3,306	46,668	65,432	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Cataño	kWh	Above	N/A	115	2,156	4,798	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Cayey	kWh	Above	N/A	4,176	51,413	55,686	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Ceiba	kWh	Above	N/A	48	895	2,129	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Ciales	kWh	Above	N/A	35	762	2,002	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Cidra	kWh	Above	N/A	137	3,029	7,641	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Coamo	kWh	Above	N/A	137	3,216	8,204	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Comerio	kWh	Above	N/A	16	434	1,454	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed BESS capacity	Corozal	kWh	Above	N/A	99	2,093	5,392	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Culebra	kWh	Above	N/A	0	n/a	286	N/A*	N/A
RE and DSM	Total installed BESS capacity	Dorado	kWh	Above	N/A	252	5,579	12,643	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Fajardo	kWh	Above	N/A	111	2,850	7,322	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Florida	kWh	Above	N/A	27	558	1,834	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Guánica	kWh	Above	N/A	35	726	2,329	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Guayama	kWh	Above	N/A	1,893	24,292	30,286	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Guayanilla	kWh	Above	N/A	46	996	2,369	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Guaynabo	kWh	Above	N/A	614	12,222	25,138	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Gurabo	kWh	Above	N/A	317	6,633	15,665	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Hatillo	kWh	Above	N/A	172	2,964	5,877	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Hormigueros	kWh	Above	N/A	84	1,639	3,327	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Humacao	kWh	Above	N/A	213	4,796	13,569	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed BESS capacity	Isabela	kWh	Above	N/A	118	2,524	6,467	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Jayuya	kWh	Above	N/A	48	797	1,254	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Juana Díaz	kWh	Above	N/A	292	6,236	31,812	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Juncos	kWh	Above	N/A	161	4,028	38,473	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Lajas	kWh	Above	N/A	66	1,459	3,688	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Lares	kWh	Above	N/A	69	1,127	2,119	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Las Marías	kWh	Above	N/A	12	205	517	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Las Piedras	kWh	Above	N/A	184	4,553	10,862	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Loíza	kWh	Above	N/A	34	877	2,371	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Luquillo	kWh	Above	N/A	67	1,633	4,310	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Manatí	kWh	Above	N/A	183	3,582	8,669	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Maricao	kWh	Above	N/A	5	117	225	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Maunabo	kWh	Above	N/A	7	285	1,222	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed BESS capacity	Mayagüez	kWh	Above	N/A	268	4,662	9,484	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Moca	kWh	Above	N/A	88	1,640	3,720	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Morovis	kWh	Above	N/A	73	1,718	4,897	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Naguabo	kWh	Above	N/A	120	2,794	6,490	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Naranjito	kWh	Above	N/A	41	1,267	3,050	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Orocovis	kWh	Above	N/A	37	700	1,598	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Patillas	kWh	Above	N/A	36	882	2,804	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Peñuelas	kWh	Above	N/A	34	887	2,677	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Ponce	kWh	Above	N/A	494	13,238	72,605	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Quebradillas	kWh	Above	N/A	79	1,382	3,085	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Rincón	kWh	Above	N/A	34	771	1,877	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Río Grande	kWh	Above	N/A	227	5,429	12,763	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Río Piedras	kWh	Above	N/A	2	44	112	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed BESS capacity	Sabana Grande	kWh	Above	N/A	93	2,213	4,818	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Salinas	kWh	Above	N/A	3,593	44,333	48,880	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	San Germán	kWh	Above	N/A	105	2,056	5,113	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	San Juan	kWh	Above	N/A	3,492	51,817	78,509	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	San Lorenzo	kWh	Above	N/A	173	3,811	8,793	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	San Sebastián	kWh	Above	N/A	126	2,230	4,618	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Santa Isabel	kWh	Above	N/A	135	3,041	7,713	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Santurce	kWh	Above	N/A	3	59	116	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Toa Alta	kWh	Above	N/A	411	9,302	23,567	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Toa Baja	kWh	Above	N/A	334	8,012	19,821	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Trujillo Alto	kWh	Above	N/A	286	6,833	14,989	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Utua	kWh	Above	N/A	73	1,109	2,068	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Vega Alta	kWh	Above	N/A	160	3,240	7,279	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total installed BESS capacity	Vega Baja	kWh	Above	N/A	4,374	54,950	63,830	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Vieques	kWh	Above	N/A	2	68	337	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Villalba	kWh	Above	N/A	53	1,185	2,702	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Yabucoa	kWh	Above	N/A	63	1,478	3,816	N/A*	IMPROVED
RE and DSM	Total installed BESS capacity	Yauco	kWh	Above	N/A	1,818	31,025	43,038	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Total	kWh	Above	N/A	1,077	23,681	44,898	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Adjuntas	kWh	Above	N/A	1	27	40	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Aguada	kWh	Above	N/A	7	136	246	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Aguadilla	kWh	Above	N/A	7	263	536	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Aguas Buenas	kWh	Above	N/A	3	86	180	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Aibonito	kWh	Above	N/A	1	70	180	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Añasco	kWh	Above	N/A	10	140	197	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Arecibo	kWh	Above	N/A	28	495	1,029	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed BESS capacity	Arroyo	kWh	Above	N/A	6	141	329	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Barceloneta	kWh	Above	N/A	10	159	441	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Barranquitas	kWh	Above	N/A	2	76	158	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Bayamón	kWh	Above	N/A	87	1,673	2,936	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Cabo Rojo	kWh	Above	N/A	24	393	705	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Caguas	kWh	Above	N/A	58	1,223	1,941	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Camuy	kWh	Above	N/A	13	143	319	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Canóvanas	kWh	Above	N/A	28	435	648	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Carolina	kWh	Above	N/A	67	1,132	1,968	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Cataño	kWh	Above	N/A	4	139	267	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Cayey	kWh	Above	N/A	11	244	407	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Ceiba	kWh	Above	N/A	6	56	149	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Ciales	kWh	Above	N/A	2	79	112	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed BESS capacity	Cidra	kWh	Above	N/A	13	262	448	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Coamo	kWh	Above	N/A	9	264	499	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Comerio	kWh	Above	N/A	1	49	116	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Corozal	kWh	Above	N/A	12	162	362	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Culebra	kWh	Above	N/A	0	n/a	42	N/A*	N/A
RE and DSM	Incremental installed BESS capacity	Dorado	kWh	Above	N/A	15	458	663	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Fajardo	kWh	Above	N/A	12	272	431	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Florida	kWh	Above	N/A	0	50	133	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Guánica	kWh	Above	N/A	3	59	189	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Guayama	kWh	Above	N/A	21	293	616	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Guayanilla	kWh	Above	N/A	9	81	137	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Guaynabo	kWh	Above	N/A	35	838	1,223	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Gurabo	kWh	Above	N/A	23	484	968	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed BESS capacity	Hatillo	kWh	Above	N/A	5	160	327	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Hormigueros	kWh	Above	N/A	3	95	182	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Humacao	kWh	Above	N/A	17	467	891	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Isabela	kWh	Above	N/A	11	193	406	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Jayuya	kWh	Above	N/A	3	30	57	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Juana Díaz	kWh	Above	N/A	19	465	2,734	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Juncos	kWh	Above	N/A	21	371	695	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Lajas	kWh	Above	N/A	8	122	251	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Lares	kWh	Above	N/A	1	48	111	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Las Marías	kWh	Above	N/A	2	13	40	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Las Piedras	kWh	Above	N/A	10	396	625	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Loíza	kWh	Above	N/A	5	83	173	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Luquillo	kWh	Above	N/A	3	147	275	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed BESS capacity	Manatí	kWh	Above	N/A	6	241	568	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Maricao	kWh	Above	N/A	0	11	7	N/A*	NOT IMPROVED
RE and DSM	Incremental installed BESS capacity	Maunabo	kWh	Above	N/A	1	47	99	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Mayagüez	kWh	Above	N/A	6	256	540	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Moca	kWh	Above	N/A	1	104	208	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Morovis	kWh	Above	N/A	6	149	344	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Naguabo	kWh	Above	N/A	9	221	398	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Naranjito	kWh	Above	N/A	6	112	198	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Orocovis	kWh	Above	N/A	1	48	102	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Patillas	kWh	Above	N/A	7	91	213	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Peñuelas	kWh	Above	N/A	5	90	185	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Ponce	kWh	Above	N/A	48	1,215	5,211	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Quebradillas	kWh	Above	N/A	2	79	185	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed BESS capacity	Rincón	kWh	Above	N/A	1	68	110	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Río Grande	kWh	Above	N/A	21	471	720	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Río Piedras	kWh	Above	N/A	0	4	6	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Sabana Grande	kWh	Above	N/A	2	178	258	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Salinas	kWh	Above	N/A	14	200	495	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	San Germán	kWh	Above	N/A	8	154	301	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	San Juan	kWh	Above	N/A	90	1,693	2,603	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	San Lorenzo	kWh	Above	N/A	14	308	477	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	San Sebastián	kWh	Above	N/A	13	117	248	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Santa Isabel	kWh	Above	N/A	10	263	452	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Santurce	kWh	Above	N/A	0	2	5	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Toa Alta	kWh	Above	N/A	39	813	1,301	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Toa Baja	kWh	Above	N/A	41	716	1,121	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental installed BESS capacity	Trujillo Alto	kWh	Above	N/A	41	552	743	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Utua	kWh	Above	N/A	7	46	115	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Vega Alta	kWh	Above	N/A	10	222	461	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Vega Baja	kWh	Above	N/A	14	468	933	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Vieques	kWh	Above	N/A	0	7	53	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Villalba	kWh	Above	N/A	1	94	157	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Yabucoa	kWh	Above	N/A	1	126	277	N/A*	IMPROVED
RE and DSM	Incremental installed BESS capacity	Yauco	kWh	Above	N/A	15	1,546	421	N/A*	NOT IMPROVED
RE and DSM	Total number of BESS installations	Total	Number of facilities	Above	N/A	919	20,182	47,635	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Adjuntas	Number of facilities	Above	N/A	1	29	55	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Aguada	Number of facilities	Above	N/A	10	171	341	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Aguadilla	Number of facilities	Above	N/A	13	263	621	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Aguas Buenas	Number of facilities	Above	N/A	4	76	194	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of BESS installations	Aibonito	Number of facilities	Above	N/A	2	55	173	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Añasco	Number of facilities	Above	N/A	5	127	261	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Arecibo	Number of facilities	Above	N/A	29	563	1,264	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Arroyo	Number of facilities	Above	N/A	7	141	374	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Barceloneta	Number of facilities	Above	N/A	8	166	445	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Barranquitas	Number of facilities	Above	N/A	3	61	170	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Bayamón	Number of facilities	Above	N/A	70	1,531	3,563	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Cabo Rojo	Number of facilities	Above	N/A	22	430	945	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Caguas	Number of facilities	Above	N/A	50	1,123	2,505	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Camuy	Number of facilities	Above	N/A	7	146	345	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Canóvanas	Number of facilities	Above	N/A	15	357	827	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Carolina	Number of facilities	Above	N/A	46	1,047	2,361	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Cataño	Number of facilities	Above	N/A	7	144	326	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of BESS installations	Cayey	Number of facilities	Above	N/A	11	233	545	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Ceiba	Number of facilities	Above	N/A	4	66	154	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Ciales	Number of facilities	Above	N/A	2	56	144	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Cidra	Number of facilities	Above	N/A	10	215	545	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Coamo	Number of facilities	Above	N/A	10	222	583	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Comerio	Number of facilities	Above	N/A	1	30	106	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Corozal	Number of facilities	Above	N/A	6	139	380	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Culebra	Number of facilities	Above	N/A	0	0	26	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Dorado	Number of facilities	Above	N/A	17	375	831	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Fajardo	Number of facilities	Above	N/A	8	194	509	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Florida	Number of facilities	Above	N/A	2	47	145	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Guánica	Number of facilities	Above	N/A	3	55	171	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Guayama	Number of facilities	Above	N/A	13	263	701	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of BESS installations	Guayanilla	Number of facilities	Above	N/A	3	72	169	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Guaynabo	Number of facilities	Above	N/A	39	795	1,645	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Gurabo	Number of facilities	Above	N/A	25	496	1,117	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Hatillo	Number of facilities	Above	N/A	11	194	394	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Hormigueros	Number of facilities	Above	N/A	6	120	243	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Humacao	Number of facilities	Above	N/A	15	325	902	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Isabela	Number of facilities	Above	N/A	8	183	456	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Jayuya	Number of facilities	Above	N/A	2	37	68	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Juana Díaz	Number of facilities	Above	N/A	21	435	967	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Juncos	Number of facilities	Above	N/A	12	288	789	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Lajas	Number of facilities	Above	N/A	5	106	268	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Lares	Number of facilities	Above	N/A	2	49	123	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Las Marías	Number of facilities	Above	N/A	1	15	39	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of BESS installations	Las Piedras	Number of facilities	Above	N/A	14	349	810	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Loíza	Number of facilities	Above	N/A	3	67	173	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Luquillo	Number of facilities	Above	N/A	4	110	288	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Manatí	Number of facilities	Above	N/A	14	272	638	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Maricao	Number of facilities	Above	N/A	0	8	16	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Maunabo	Number of facilities	Above	N/A	1	20	84	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Mayagüez	Number of facilities	Above	N/A	19	347	695	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Moca	Number of facilities	Above	N/A	6	116	262	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Morovis	Number of facilities	Above	N/A	5	130	370	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Naguabo	Number of facilities	Above	N/A	8	186	432	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Naranjito	Number of facilities	Above	N/A	3	90	226	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Orocovis	Number of facilities	Above	N/A	2	51	120	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Patillas	Number of facilities	Above	N/A	3	67	211	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of BESS installations	Peñuelas	Number of facilities	Above	N/A	3	64	191	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Ponce	Number of facilities	Above	N/A	35	883	2,215	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Quebradillas	Number of facilities	Above	N/A	5	101	238	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Rincón	Number of facilities	Above	N/A	2	55	134	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Río Grande	Number of facilities	Above	N/A	17	381	892	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Río Piedras	Number of facilities	Above	N/A	0	4	8	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Sabana Grande	Number of facilities	Above	N/A	7	146	334	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Salinas	Number of facilities	Above	N/A	10	195	518	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	San Germán	Number of facilities	Above	N/A	8	155	379	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	San Juan	Number of facilities	Above	N/A	66	1,494	3,284	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	San Lorenzo	Number of facilities	Above	N/A	12	278	641	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	San Sebastián	Number of facilities	Above	N/A	7	148	318	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Santa Isabel	Number of facilities	Above	N/A	8	197	534	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Total number of BESS installations	Santurce	Number of facilities	Above	N/A	0	3	8	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Toa Alta	Number of facilities	Above	N/A	30	670	1,659	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Toa Baja	Number of facilities	Above	N/A	25	589	1,441	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Trujillo Alto	Number of facilities	Above	N/A	21	497	1,062	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Utuado	Number of facilities	Above	N/A	4	67	140	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Vega Alta	Number of facilities	Above	N/A	10	203	477	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Vega Baja	Number of facilities	Above	N/A	15	355	976	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Vieques	Number of facilities	Above	N/A	0	5	24	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Villalba	Number of facilities	Above	N/A	3	78	189	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Yabucoa	Number of facilities	Above	N/A	4	102	274	N/A*	IMPROVED
RE and DSM	Total number of BESS installations	Yauco	Number of facilities	Above	N/A	12	263	587	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Total	Number of facilities	Above	N/A	80	1,576	2,775	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Adjuntas	Number of facilities	Above	N/A	0	2	3	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	Aguada	Number of facilities	Above	N/A	1	9	17	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Aguadilla	Number of facilities	Above	N/A	1	19	36	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Aguas Buenas	Number of facilities	Above	N/A	0	6	13	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Aibonito	Number of facilities	Above	N/A	0	5	13	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Añasco	Number of facilities	Above	N/A	1	10	13	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Arecibo	Number of facilities	Above	N/A	2	36	75	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Arroyo	Number of facilities	Above	N/A	1	11	25	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Barceloneta	Number of facilities	Above	N/A	1	12	32	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Barranquitas	Number of facilities	Above	N/A	0	6	12	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Bayamón	Number of facilities	Above	N/A	6	119	202	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Cabo Rojo	Number of facilities	Above	N/A	2	27	51	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Caguas	Number of facilities	Above	N/A	5	88	134	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Camuy	Number of facilities	Above	N/A	1	10	23	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	Canóvanas	Number of facilities	Above	N/A	2	30	46	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Carolina	Number of facilities	Above	N/A	5	80	135	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Cataño	Number of facilities	Above	N/A	0	10	18	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Cayey	Number of facilities	Above	N/A	1	18	30	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Ceiba	Number of facilities	Above	N/A	0	4	11	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Ciales	Number of facilities	Above	N/A	0	6	8	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Cidra	Number of facilities	Above	N/A	1	19	32	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Coamo	Number of facilities	Above	N/A	1	18	37	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Comerio	Number of facilities	Above	N/A	0	4	9	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Corozal	Number of facilities	Above	N/A	1	12	26	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Culebra	Number of facilities	Above	N/A	0	0	4	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Dorado	Number of facilities	Above	N/A	1	31	42	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Fajardo	Number of facilities	Above	N/A	1	18	31	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	Florida	Number of facilities	Above	N/A	0	4	10	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Guánica	Number of facilities	Above	N/A	0	4	14	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Guayama	Number of facilities	Above	N/A	1	21	45	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Guayanilla	Number of facilities	Above	N/A	1	6	10	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Guaynabo	Number of facilities	Above	N/A	3	55	80	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Gurabo	Number of facilities	Above	N/A	2	34	66	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Hatillo	Number of facilities	Above	N/A	1	11	23	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Hormigueros	Number of facilities	Above	N/A	1	7	14	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Humacao	Number of facilities	Above	N/A	1	29	61	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Isabela	Number of facilities	Above	N/A	1	14	28	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Jayuya	Number of facilities	Above	N/A	0	2	4	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Juana Díaz	Number of facilities	Above	N/A	2	32	52	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Juncos	Number of facilities	Above	N/A	2	26	50	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	Lajas	Number of facilities	Above	N/A	1	8	19	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Lares	Number of facilities	Above	N/A	0	4	8	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Las Marías	Number of facilities	Above	N/A	0	1	3	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Las Piedras	Number of facilities	Above	N/A	1	30	45	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Loíza	Number of facilities	Above	N/A	0	6	11	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Luquillo	Number of facilities	Above	N/A	0	10	19	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Manatí	Number of facilities	Above	N/A	0	18	41	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Maricao	Number of facilities	Above	N/A	0	0.8	0.5	N/A*	NOT IMPROVED
RE and DSM	Incremental number of BESS installations	Maunabo	Number of facilities	Above	N/A	0	3	7	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Mayagüez	Number of facilities	Above	N/A	1	19	38	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Moca	Number of facilities	Above	N/A	0	8	15	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Morovis	Number of facilities	Above	N/A	1	12	26	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Naguabo	Number of facilities	Above	N/A	1	14	28	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	Naranjito	Number of facilities	Above	N/A	0	9	15	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Orocovis	Number of facilities	Above	N/A	0	4	8	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Patillas	Number of facilities	Above	N/A	1	7	16	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Peñuelas	Number of facilities	Above	N/A	0	6	13	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Ponce	Number of facilities	Above	N/A	4	79	130	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Quebradillas	Number of facilities	Above	N/A	0	8	14	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Rincón	Number of facilities	Above	N/A	0	5	8	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Río Grande	Number of facilities	Above	N/A	2	32	51	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Río Piedras	Number of facilities	Above	N/A	0	0	0	N/A*	NO SUBSTANTIAL CHANGE
RE and DSM	Incremental number of BESS installations	Sabana Grande	Number of facilities	Above	N/A	0	12	19	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Salinas	Number of facilities	Above	N/A	1	13	36	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	San Germán	Number of facilities	Above	N/A	1	11	22	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	San Juan	Number of facilities	Above	N/A	6	118	170	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025

Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	San Lorenzo	Number of facilities	Above	N/A	1	23	34	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	San Sebastián	Number of facilities	Above	N/A	1	9	17	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Santa Isabel	Number of facilities	Above	N/A	1	18	33	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Santurce	Number of facilities	Above	N/A	0	0	0	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Toa Alta	Number of facilities	Above	N/A	3	56	90	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Toa Baja	Number of facilities	Above	N/A	3	52	80	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Trujillo Alto	Number of facilities	Above	N/A	3	39	51	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Utuado	Number of facilities	Above	N/A	0	4	9	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Vega Alta	Number of facilities	Above	N/A	1	15	31	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Vega Baja	Number of facilities	Above	N/A	1	32	66	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Vieques	Number of facilities	Above	N/A	0	0	4	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Villalba	Number of facilities	Above	N/A	0	7	12	N/A*	IMPROVED
RE and DSM	Incremental number of BESS installations	Yabucoa	Number of facilities	Above	N/A	0	9	21	N/A*	IMPROVED

*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.



Table 3. LUMA's FY23 Performance for Metrics without Benchmarks Not Proposed to be Included in Docket NEPR-AP-2020-0025										
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Performance Relative to FY2022
RE and DSM	Incremental number of BESS installations	Yauco	Number of facilities	Above	N/A	1	21	30	N/A*	IMPROVED



*LUMA took control of the transmission and distribution system in June 2021. Therefore, no baseline data is available for FY20 or FY21 for these metrics.

Table 4. PREPA's FY23 Performance For Metrics with Benchmarks											
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	Proposed Benchmark	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Relative to FY2022
Safety	OSHA Recordable Rate	Generation	Rate	Below	6.90	1.80	2.13	4.45	5.05	IMPROVED	NOT IMPROVED
Safety	OSHA DART Rate	Generation	Rate	Below	4.77	0.90	1.84	3.18	3.31	IMPROVED	NO SUBSTANTIAL CHANGE
Safety	OSHA Severity Rate	Generation	Rate	Below	31.00	To be determined	14.51	18.57	23.21	IMPROVED	NOT IMPROVED
Safety	OSHA Fatality	Generation	Rate	Below	0.00	0.00	0.00	0.00	0.00	MET BASELINE	NO SUBSTANTIAL CHANGE
Human Resources	Absenteeism		Percentage	Below	13%	2%	18%	18%	20%	NOT IMPROVED	NOT IMPROVED
Finance	Operational expenses vs. budget	System	Percentage	Closest to 0%	80%	Within Budget	100%	8%	-3%	IMPROVED	IMPROVED
Finance	Operational expenses vs. budget	A01 Junta de Gobierno	Percentage	Closest to 0%	66%	Within Budget	85%	3%	36%	IMPROVED	NOT IMPROVED
Finance	Operational expenses vs. budget	A02 Directorado Ejecutivo	Percentage	Closest to 0%	90%	Within Budget	100%	-23%	-20%	IMPROVED	IMPROVED
Finance	Operational expenses vs. budget	A04 Directorado Consultor Jurídico	Percentage	Closest to 0%	78%	Within Budget	67%	-13%	-38%	IMPROVED	NOT IMPROVED
Finance	Operational expenses vs. budget	A05 Directorado Planificación y Protección Ambiental	Percentage	Closest to 0%	71%	Within Budget	81%	-65%	N/A ¹	N/A	N/A
Finance	Operational expenses vs. budget	A07 Directorado de Finanzas	Percentage	Closest to 0%	86%	Within Budget	72%	-9%	-32%	IMPROVED	NOT IMPROVED
Finance	Operational expenses vs. budget	A08 Directorado Administración de Operaciones e Infraestructura	Percentage	Closest to 0%	N/A ²	Within Budget	54%	-17%	-52%	N/A	NOT IMPROVED
Finance	Operational expenses vs. budget	A09 Directorado Recursos Humanos	Percentage	Closest to 0%	95%	Within Budget	86%	15%	-3%	IMPROVED	IMPROVED

¹ No data reported for this budget category in FY23. A comparison cannot be made.

² No data reported for this budget category until June 2021. No baseline data.



Table 4. PREPA's FY23 Performance For Metrics with Benchmarks											
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	Proposed Benchmark	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Relative to FY2022
Finance	Operational expenses vs. budget	A10 Directorado Sistema Eléctrico	Percentage	Closest to 0%	93%	Within Budget	98%	1%	8%	IMPROVED	NOT IMPROVED
Finance	Operational expenses vs. budget	A11 Directorado Servicio al Cliente	Percentage	Closest to 0%	87%	Within Budget	85%	0%	N/A ³	N/A	N/A
Finance	Operational expenses vs. budget	A12 Directorado Transmisión y Distribución	Percentage	Closest to 0%	76%	Within Budget	91%	0%	N/A ⁴	N/A	N/A
Finance	Operational expenses vs. budget	A14 Responsabilidades Corporativas	Percentage	Closest to 0%	N/A ⁵	Within Budget	19%	3%	12%	N/A	NOT IMPROVED
Finance	Capital expenses vs. budget	System	Percentage	Closest to 0%	7%	Within Budget	7%	65%	-13%	NOT IMPROVED	IMPROVED
Finance	Capital expenses vs. budget	Generation	Percentage	Closest to 0%	4%	Within Budget	6%	65%	-13%	NOT IMPROVED	IMPROVED
Generation	Average heat rate (by plant)	San Juan - Steam	BTU/kWh	Below	12,519	10,236	7,090	11,583	9,055	IMPROVED	IMPROVED
Generation	Average heat rate (by plant)	Palo Seco - Steam	BTU/kWh	Below	11,411	10,236	10,334	10,943	11,054	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Average heat rate (by plant)	Aguirre - Steam	BTU/kWh	Below	10,986	10,236	11,280	11,307	10,470	MET BASELINE	IMPROVED
Generation	Average heat rate (by plant)	Ciclo Combinado San Juan	BTU/kWh	Below	8,870	9,662	8,382	8,959	9,491	NOT IMPROVED	NOT IMPROVED
Generation	Average heat rate (by plant)	Ciclo Combinado - Aguirre	BTU/kWh	Below	13,838	9,662	14,439	14,574	12,825	IMPROVED	IMPROVED
Generation	Average heat rate (by plant)	Mayagüez - Gas	BTU/kWh	Below	10,326	13,315	10,364	10,551	10,636	MET BASELINE	NO SUBSTANTIAL CHANGE

³ No data reported for this budget category in FY23. A comparison cannot be made.

⁴ No data reported for this budget category in FY23. A comparison cannot be made.

⁵ No data reported for this budget category until June 2021. No baseline data.



Table 4. PREPA's FY23 Performance For Metrics with Benchmarks											
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	Proposed Benchmark	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Relative to FY2022
Generation	Average heat rate (by plant)	Palo Seco - Gas	BTU/kWh	Below	13,995	13,315	14,515	15,719	11,306	IMPROVED	IMPROVED
Generation	Average heat rate (by plant)	Costa Sur - Gas	BTU/kWh	Below	N/A*	13,315	N/A*	N/A*	3,184	N/A	N/A
Generation	Average heat rate (by plant)	Aguirre - Gas	BTU/kWh	Below	15,377	13,315	1,302	3,906	6,072	IMPROVED	NOT IMPROVED
Generation	Average heat rate (by plant)	Yabucoa - Gas	BTU/kWh	Below	14,780	13,315	10,643	13,243	5,235	IMPROVED	IMPROVED
Generation	Average heat rate (by plant)	Daguao - Gas	BTU/kWh	Below	15,640	13,315	14,672	14,999	15,453	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Average heat rate (by plant)	Jobos - Gas	BTU/kWh	Below	15,080	13,315	13,762	15,042	15,427	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Average heat rate (by plant)	Vega Baja - Gas	BTU/kWh	Below	13,709	13,315	11,705	1,351	N/A*	N/A	N/A
Generation	Average heat rate (by plant)	Cambalache - Gas	BTU/kWh	Below	12,482	13,315	13,026	13,029	13,101	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Average heat rate (by plant)	Vieques - Diesel	BTU/kWh	Below	9,380	10,325	N/A*	N/A*	N/A*	N/A	N/A
Generation	Average heat rate (by plant)	Culebra - Diesel	BTU/kWh	Below	8,092	10,325	N/A*	N/A*	N/A*	N/A	N/A
Generation	Plant availability (by plant)	San Juan - Steam	Percentage	Above	42%	74%	29%	48%	35%	NOT IMPROVED	NOT IMPROVED
Generation	Plant availability (by plant)	Palo Seco - Steam	Percentage	Above	48%	83%	27%	63%	59%	IMPROVED	NOT IMPROVED
Generation	Plant availability (by plant)	Costa Sur - Steam	Percentage	Above	42%	85%	44%	62%	65%	IMPROVED	NO SUBSTANTIAL CHANGE

*No generation occurred in these years. Average heat rate cannot be calculated.



Table 5. PREPA's FY23 Performance for Metrics without Benchmarks										
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Relative to FY2022
Human Resources	Budgeted headcounts by employee type	PREPA	Number	N/A	N/A	N/A	1,347	1,378	N/A*	UNDER REVIEW
Human Resources	Actual headcounts by employee type	PREPA	Number	N/A	N/A	N/A	1,230	1,224	N/A*	UNDER REVIEW
Generation	Plant availability (system)		Percentage	Above	51%	52%	52%	47%	NOT IMPROVED	NOT IMPROVED
Generation	Forced outages (system)		Percentage	Below	29%	21%	25%	29%	MET BASELINE	NOT IMPROVED
Generation	Cost of generation (system: O&M AEE, exc. PPOA's gen)		\$/kWh	Below	\$0.010	\$0.011	\$0.010	\$0.011	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Cost of generation (by Plant Type)	Steam - O&M	\$/kWh	Below	\$0.01	\$0.01	\$0.01	\$0.01	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Cost of generation (by Plant Type)	Gas - O&M	\$/kWh	Below	\$0.01	\$0.02	\$0.03	\$0.03	NOT IMPROVED	NO SUBSTANTIAL CHANGE
Generation	Cost of generation (by Plant Type)	Steam - Total	\$/kWh	Below	\$0.10	\$0.11	\$0.16	\$0.18	UNDER REVIEW	UNDER REVIEW
Generation	Cost of generation (by Plant Type)	Gas - Total	\$/kWh	Below	\$0.36	\$0.20	\$0.51	\$0.47	UNDER REVIEW	UNDER REVIEW
Generation	Cost of generation (by Plant Type)	Hydro Total	\$/kWh	Below	\$0.08	\$0.11	\$0.14	\$0.11	NOT IMPROVED	IMPROVED
Generation	Average heat rate (system)		BTU/kWh	Below	11,410	11,080	11,111	11,177	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Average heat rate (by plant)	Costa Sur - Steam	BTU/kWh	Below	11,923	10,623	11,544	11,790	MET BASELINE	NO SUBSTANTIAL CHANGE
Generation	Forced outages (by plant)	Costa Sur - Steam	Percentage	Below	54%	32%	26%	5%	IMPROVED	IMPROVED

*New metric as of June 2021. No data for FY20 or FY21



Table 5. PREPA's FY23 Performance for Metrics without Benchmarks										
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Relative to FY2022
Fuel	Average fuel price vs. forecast price	Diesel #2	Percentage	Close to 0%	2%	-2%	21%	49%	NOT IMPROVED	NOT IMPROVED
Fuel	Average fuel price vs. forecast price	#6	Percentage	Close to 0%	6%	-2%	20%	-46%	NOT IMPROVED	NOT IMPROVED
Fuel	Average fuel price vs. forecast price	Natural Gas	Percentage	Close to 0%	-10%	-8%	16%	-13%	NOT IMPROVED	UNDER REVIEW
Planning and Environmental	Timeliness of permitting - new and renewals		Percentage	Above	94%	100%	100%	100%	IMPROVED	NO SUBSTANTIAL CHANGE
Planning and Environmental	Emissions of SO2, Nox, CO2, PM, Hg and other regulated pollutants (system)		tons	Below	130,886	47,307	3,741	3,568	UNDER REVIEW	UNDER REVIEW
Planning and Environmental	Emissions rates of SO2, Nox, CO2, PM, Hg and other regulated pollutants (system)		lb / MMBTU	Below	Missing	0.56	0.60	0.58	N/A*	NO SUBSTANTIAL CHANGE
Planning and Environmental	Carbon intensity of fossil generation		tons / MWH	Below	Missing	0.71	0.81	0.80	N/A*	NO SUBSTANTIAL CHANGE
Fleet	Fleet out of service (system)		Percentage	Below	16%	18%	73%**	33%	NOT IMPROVED	IMPROVED
Fleet	Total available vehicles in service (system)		Number of vehicles	Above	2,709	2,959	332	227	UNDER REVIEW***	UNDER REVIEW***
Fuel	Fuel Expenditure vs Forecast	Diesel #2	Percentage	Below	5620%	2649%	247%	39%	IMPROVED	IMPROVED
Fuel	Fuel Expenditure vs Forecast	#6	Percentage	Below	13%	-5%	31%	-5%	IMPROVED	IMPROVED
Fuel	Inventory control	Diesel #2	Percentage	N/A	46%	64%	61%	69%	UNDER REVIEW	UNDER REVIEW

*No data reported for FY20 for this metric.

** PREPA may have reported percent of fleet in service for FY22, instead of percent of fleet out of service. The Bureau has included a follow-up question to confirm this.

***PREPA gave some vehicles to LUMA and Genera during the transitions, which caused this decrease.



Table 5. PREPA's FY23 Performance for Metrics without Benchmarks										
Metric Category	Metric	Sub-Group	Unit of Measure	Performance improves if above or below	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average	FY2023 Performance Relative to 2020 Baseline	FY2023 Relative to FY2022
Fuel	Inventory control	#6	Percentage	N/A	63%	67%	54%	57%	UNDER REVIEW	UNDER REVIEW
Fuel	MMBTU consumed vs. forecast	Diesel #2	Percentage	Below	5340%	2966%	233%	25%	IMPROVED	IMPROVED
Fuel	MMBTU consumed vs. forecast	#6	Percentage	Below	8%	-4%	15%	-2%	IMPROVED	IMPROVED
Fuel	MMBTU consumed vs. forecast	NG	Percentage	Above	-19%	-3%	-13%	-6%	IMPROVED	IMPROVED



Table 6. Metrics being reported by LUMA and PREPA for Informational Purposes

Metric Category	Metric	Sub-Group	Unit of Measure	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average
Overall System	Number of customers by customer class	Total	Number of customers	1,466,878	1,476,866	1,493,055	1,503,699
Overall System	Number of customers by customer class	Residential	Number of customers	1,341,477	1,350,930	1,365,448	1,375,109
Overall System	Number of customers by customer class	Commercial	Number of customers	121,551	122,090	123,762	124,741
Overall System	Number of customers by customer class	Industrial	Number of customers	588	588	591	586
Overall System	Number of customers by customer class	Public Lighting	Number of customers	2,166	2,165	2,155	2,162
Overall System	Number of customers by customer class	Agriculture	Number of customers	1,094	1,090	1,095	1,100
Overall System	Number of customers by customer class	Others	Number of customers	2	2	2	2
Overall System	Monthly system sales by customer class	Total	GWh	1,328	1,357	1,356	1,295
Overall System	Monthly system sales by customer class	Residential	GWh	536	575	573	526
Overall System	Monthly system sales by customer class	Commercial	GWh	598	597	600	600
Overall System	Monthly system sales by customer class	Industrial	GWh	163	156	156	140
Overall System	Monthly system sales by customer class	Public Lighting	GWh	26	23	22	24
Overall System	Monthly system sales by customer class	Agriculture	GWh	2	2	2	2
Overall System	Monthly system sales by customer class	Others	GWh	3	3	3	3
Overall System	Monthly sales by Municipality	Total	GWh	1,327.9	1,356.7	1,377.5	1,295.4
Overall System	Monthly sales by Municipality	Adjuntas	GWh	2.63	2.77	3.15	2.85
Overall System	Monthly sales by Municipality	Aguada	GWh	8.09	8.38	8.71	8.55
Overall System	Monthly sales by Municipality	Aguadilla	GWh	24.38	24.71	27.39	23.44
Overall System	Monthly sales by Municipality	Aguas Buenas	GWh	4.45	4.56	4.92	4.71
Overall System	Monthly sales by Municipality	Aibonito	GWh	8.18	8.09	9.17	8.91
Overall System	Monthly sales by Municipality	Añasco	GWh	9.37	9.79	10.77	11.04
Overall System	Monthly sales by Municipality	Arecibo	GWh	37.52	39.09	44.02	39.16
Overall System	Monthly sales by Municipality	Arroyo	GWh	5.01	5.23	5.28	5.12
Overall System	Monthly sales by Municipality	Barceloneta	GWh	15.69	15.60	16.49	14.50
Overall System	Monthly sales by Municipality	Barranquitas	GWh	4.75	5.04	5.43	5.15
Overall System	Monthly sales by Municipality	Bayamón	GWh	79.96	81.72	81.36	79.44
Overall System	Monthly sales by Municipality	Cabo Rojo	GWh	12.62	13.65	13.89	13.33
Overall System	Monthly sales by Municipality	Caguas	GWh	54.50	56.36	56.51	52.90
Overall System	Monthly sales by Municipality	Camuy	GWh	6.68	7.04	7.46	7.24
Overall System	Monthly sales by Municipality	Canóvanas	GWh	12.66	14.26	14.24	14.25



Table 6. Metrics being reported by LUMA and PREPA for Informational Purposes

Metric Category	Metric	Sub-Group	Unit of Measure	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average
Overall System	Monthly sales by Municipality	Carolina	GWh	78.26	81.15	71.04	66.92
Overall System	Monthly sales by Municipality	Cataño	GWh	13.64	13.42	13.84	13.70
Overall System	Monthly sales by Municipality	Cayey	GWh	18.34	16.92	17.88	17.52
Overall System	Monthly sales by Municipality	Ceiba	GWh	3.44	3.49	3.69	3.31
Overall System	Monthly sales by Municipality	Ciales	GWh	3.32	3.57	3.86	3.61
Overall System	Monthly sales by Municipality	Cidra	GWh	12.52	13.13	11.09	11.31
Overall System	Monthly sales by Municipality	Coamo	GWh	8.24	8.63	8.70	8.36
Overall System	Monthly sales by Municipality	Comerio	GWh	3.52	3.66	3.95	3.83
Overall System	Monthly sales by Municipality	Corozal	GWh	6.58	6.94	7.50	7.20
Overall System	Monthly sales by Municipality	Culebra	GWh	1.02	0.93	1.05	1.08
Overall System	Monthly sales by Municipality	Dorado	GWh	23.46	21.99	18.55	17.42
Overall System	Monthly sales by Municipality	Fajardo	GWh	24.40	21.38	16.62	15.87
Overall System	Monthly sales by Municipality	Florida	GWh	2.27	2.36	2.60	2.50
Overall System	Monthly sales by Municipality	Guánica	GWh	3.56	3.31	3.52	3.27
Overall System	Monthly sales by Municipality	Guayama	GWh	19.94	20.45	21.17	21.06
Overall System	Monthly sales by Municipality	Guayanilla	GWh	5.51	4.93	5.28	5.43
Overall System	Monthly sales by Municipality	Guaynabo	GWh	65.17	66.20	62.49	62.52
Overall System	Monthly sales by Municipality	Gurabo	GWh	16.15	16.81	17.00	16.29
Overall System	Monthly sales by Municipality	Hatillo	GWh	10.70	11.01	11.04	10.72
Overall System	Monthly sales by Municipality	Hormigueros	GWh	3.58	3.90	3.91	3.74
Overall System	Monthly sales by Municipality	Humacao	GWh	31.98	36.09	34.62	31.97
Overall System	Monthly sales by Municipality	Isabela	GWh	10.16	10.72	10.89	10.69
Overall System	Monthly sales by Municipality	Jayuya	GWh	4.08	3.84	4.10	3.99
Overall System	Monthly sales by Municipality	Juana Díaz	GWh	n/a	18.20	17.99	12.87
Overall System	Monthly sales by Municipality	Juncos	GWh	17.62	19.04	17.40	17.65
Overall System	Monthly sales by Municipality	Lajas	GWh	5.50	5.86	5.59	5.26
Overall System	Monthly sales by Municipality	Lares	GWh	5.17	5.46	5.98	5.61
Overall System	Monthly sales by Municipality	Las Marías	GWh	n/a	1.70	2.16	1.81
Overall System	Monthly sales by Municipality	Las Piedras	GWh	16.81	16.89	18.70	16.47
Overall System	Monthly sales by Municipality	Loíza	GWh	3.89	4.34	4.23	4.28
Overall System	Monthly sales by Municipality	Luquillo	GWh	6.28	6.17	5.66	5.39
Overall System	Monthly sales by Municipality	Manatí	GWh	26.53	25.80	25.93	25.38
Overall System	Monthly sales by Municipality	Maricao	GWh	2.05	2.04	2.16	2.08



Table 6. Metrics being reported by LUMA and PREPA for Informational Purposes

Metric Category	Metric	Sub-Group	Unit of Measure	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average
Overall System	Monthly sales by Municipality	Maunabo	GWh	2.13	2.27	2.40	2.25
Overall System	Monthly sales by Municipality	Mayagüez	GWh	35.76	34.27	35.94	36.24
Overall System	Monthly sales by Municipality	Moca	GWh	7.09	7.47	7.58	7.40
Overall System	Monthly sales by Municipality	Morovis	GWh	5.11	5.58	5.87	5.87
Overall System	Monthly sales by Municipality	Naguabo	GWh	6.07	6.49	7.10	6.32
Overall System	Monthly sales by Municipality	Naranjito	GWh	5.35	6.01	6.03	5.45
Overall System	Monthly sales by Municipality	Orocovis	GWh	3.77	3.87	4.47	3.89
Overall System	Monthly sales by Municipality	Patillas	GWh	3.65	3.98	4.21	3.98
Overall System	Monthly sales by Municipality	Peñuelas	GWh	4.72	4.81	4.80	4.79
Overall System	Monthly sales by Municipality	Ponce	GWh	64.77	63.44	63.63	61.07
Overall System	Monthly sales by Municipality	Quebradillas	GWh	4.95	5.05	5.37	5.18
Overall System	Monthly sales by Municipality	Rincón	GWh	4.45	4.74	4.85	4.70
Overall System	Monthly sales by Municipality	Río Grande	GWh	15.73	15.98	15.86	13.79
Overall System	Monthly sales by Municipality	Sabana Grande	GWh	5.39	5.35	5.15	4.58
Overall System	Monthly sales by Municipality	Salinas	GWh	7.71	8.10	8.44	7.92
Overall System	Monthly sales by Municipality	San Germán	GWh	9.09	8.92	9.38	9.55
Overall System	Monthly sales by Municipality	San Juan	GWh	232.39	239.16	238.66	235.12
Overall System	Monthly sales by Municipality	San Lorenzo	GWh	8.97	8.80	9.26	8.80
Overall System	Monthly sales by Municipality	San Sebastián	GWh	8.47	8.58	8.93	8.78
Overall System	Monthly sales by Municipality	Santa Isabel	GWh	10.11	9.97	10.23	9.68
Overall System	Monthly sales by Municipality	Toa Alta	GWh	17.81	19.18	19.59	18.69
Overall System	Monthly sales by Municipality	Toa Baja	GWh	22.95	23.86	23.86	23.03
Overall System	Monthly sales by Municipality	Trujillo Alto	GWh	20.37	21.09	22.52	19.99
Overall System	Monthly sales by Municipality	Utua	GWh	5.44	5.99	6.39	6.25
Overall System	Monthly sales by Municipality	Vega Alta	GWh	9.88	10.09	10.40	10.01
Overall System	Monthly sales by Municipality	Vega Baja	GWh	20.11	19.84	17.97	17.15
Overall System	Monthly sales by Municipality	Vieques	GWh	2.95	3.04	3.24	3.23
Overall System	Monthly sales by Municipality	Villalba	GWh	5.89	7.21	7.71	4.39
Overall System	Monthly sales by Municipality	Yabucoa	GWh	6.56	6.80	7.07	6.78
Overall System	Monthly sales by Municipality	Yauco	GWh	10.21	10.15	10.87	10.81
Overall System	Monthly system peak		MW	2,911	2,632.8	2,677.1	2,602.8
Generation	Cost of generation per customer (system)		\$/customer	\$90	\$88.09	\$140.63	\$143.21
Generation	Purchased energy from thermal PPOA's	Total	GWh	0.0	0.6	0.5	0.5



Table 6. Metrics being reported by LUMA and PREPA for Informational Purposes

Metric Category	Metric	Sub-Group	Unit of Measure	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average
Generation	Purchased energy from thermal PPOA's	EcoEléctrica	GWh	0.0	0.3	0.3	0.3
Generation	Purchased energy from thermal PPOA's	AES	GWh	0.0	0.3	0.3	0.2
Generation	Cost of capacity purchased from thermal PPOA's	EcoEléctrica	\$ / kW-month	\$33.26	\$29.92	\$25.46	\$27.26
Generation	Cost of capacity purchased from thermal PPOA's	AES	\$ / kW-month	\$29.34	\$24.53	\$24.84	\$20.25
Generation	Cost of energy (base + excess) purchased from thermal PPOA's	EcoEléctrica	\$ / MWh*	\$0.04	\$0.05	\$0.05	\$0.06
Generation	Cost of energy (base + excess) purchased from thermal PPOA's	AES	\$ / MWh*	\$0.05	\$0.05	\$0.07	\$0.08
Customer Service	Total number of calls received		Number	N/A	82,140	275,208	255,672
Customer Service	Number of customers enrolled in extended payment plans by class	Total	Number of customers	32,460	17,972	18,791	23,826
Customer Service	Number of customers enrolled in extended payment plans by class	Residencial	Number of customers	27,610	13,097	14,653	20,821
Customer Service	Number of customers enrolled in extended payment plans by class	Gobierno	Number of customers	16	12	10	8
Customer Service	Number of customers enrolled in extended payment plans by class	Uso Indevido	Number of customers	6,945	4,864	4,128	2,997
Customer Service	Number of customers defaulting on extended payment plans by class	Total	Number of customers	8,439	4,039	5,641	8,778
Customer Service	Number of customers defaulting on extended payment plans by class	Residencial	Number of customers	6,067	2,573	4,273	7,581
Customer Service	Number of customers defaulting on extended payment plans by class	Gobierno	Number of customers	9	9	7	3
Customer Service	Number of customers defaulting on extended payment plans by class	Uso Indevido	Number of customers	2,363	1,457	1,361	1,193
Customer Service	Number of customers completing extended payment plans by class	Total	Number of customers	1,882	872	414	342
Customer Service	Number of customers completing extended payment plans by class	Residencial	Number of customers	1,713	744	371	307
Customer Service	Number of customers completing extended payment plans by class	Gobierno	Number of customers	1	1	-	-
Customer Service	Number of customers completing extended payment plans by class	Uso Indevido	Number of customers	168	127	43	35
Warehousing	Inventory turns (annualized percent of value)	Total	Rate	N/A**	N/A**	25%	31%
Warehousing	Inventory turns (annualized percent of value)	Warehouse General Depot (Distribution Center)	Percentage	10%	10%	11%	15%
Warehousing	Inventory turns (annualized percent of value)	Warehouse T & D (Region & District)	Percentage	82%	83%	71%	92%

* This metric has units of \$/MWh in the template. However, these values appear low. The Bureau has asked a question to clarify this.

** This metric was added in June 2021. No data is available for FY20 or FY21.



Table 6. Metrics being reported by LUMA and PREPA for Informational Purposes

Metric Category	Metric	Sub-Group	Unit of Measure	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average
Warehousing	Inventory turns (annualized percent of value)	Warehouse Plants	Percentage	15%	16%	15%	17%
Warehousing	Inventory value		Million dollars	\$236.5	\$233.7	\$225.5	\$252.1
RE and DSM	Average capacity factor of RPS-eligible capacity	Pattern Santa Isabel	Percentage	22%	24%	26%	18%
RE and DSM	Average capacity factor of RPS-eligible capacity	Punta Lima Wind Farm	Percentage	Missing	N/A	0%	0%
RE and DSM	Average capacity factor of RPS-eligible capacity	AES Ilumina	Percentage	22%	22%	21%	20%
RE and DSM	Average capacity factor of RPS-eligible capacity	Windmar Cantera Martínó	Percentage	25%	24%	24%	22%
RE and DSM	Average capacity factor of RPS-eligible capacity	San Fermín Solar Farm	Percentage	20%	19%	17%	11%
RE and DSM	Average capacity factor of RPS-eligible capacity	Horizon Energy	Percentage	26%	26%	24%	25%
RE and DSM	Average capacity factor of RPS-eligible capacity	Landfill Gas Technologies Fajardo (LFGT)	Percentage	23%	20%	22%	16%
RE and DSM	Average capacity factor of RPS-eligible capacity	Oriana Energy	Percentage	20%	24%	22%	22%
RE and DSM	Average capacity factor of RPS-eligible capacity	Windmar Coto Laurel SolarFarm	Percentage	18%	16%	22%	21%
RE and DSM	Average capacity factor of RPS-eligible capacity	Humacao Solar Project	Percentage	19%	21%	21%	19%
RE and DSM	Average capacity factor of RPS-eligible capacity	Lanfill Gas Technologies Toa Baja (LFGT)	Percentage	37%	35%	48%	32%
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Pattern Santa Isabel	GWh	11.90	13.04	14.21	9.97
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Punta Lima Wind Farm	GWh	0.00	0.00	0.00	0.00
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	AES Ilumina	GWh	3.20	3.15	3.09	2.89
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Windmar Cantera Martínó	GWh	0.39	0.37	0.46	0.34
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	San Fermín Solar Farm	GWh	2.9	2.8	2.4	1.6
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Horizon Energy	GWh	1.9	1.9	1.8	1.8
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Landfill Gas Technologies Fajardo (LFGT)	GWh	0.4	0.4	0.4	0.3
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Oriana Energy	GWh	6.85	7.91	7.41	7.23
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Windmar Coto Laurel SolarFarm	GWh	1.31	1.16	1.57	1.50



Table 6. Metrics being reported by LUMA and PREPA for Informational Purposes

Metric Category	Metric	Sub-Group	Unit of Measure	FY2020 Baseline	FY2021 Average	FY2022 Average	FY2023 Average
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Humacao Solar Project	GWh	4.56	5.09	5.70	5.53
RE and DSM	Generation from RPS-eligible PPOA's (by unit)	Landfill Gas Technologies Toa Baja (LFGT)	GWh	0.65	0.60	0.84	0.57
Generation	Cost of generation (system total) AEE, exc. PPOA's gen		\$/kWh	\$0.14	\$0.12	\$0.18	\$0.20
Generation	Cost of generation (system: fuel)		\$/kWh	\$0.13	\$0.12	\$0.17	\$0.19
Generation	Cost of generation (by Plant Type)	Steam - Fuel	\$/kWh	\$0.09	\$0.10	\$0.15	\$0.17
Generation	Cost of generation (by Plant Type)	Gas - Fuel	\$/kWh	\$0.35	\$0.18	\$0.47	\$0.44
Generation	Monthly thermal generation (system) AEE, excluding PPOA's gen		GWh	969.5	1023.8	1021.6	983.7
Generation	Monthly thermal generation (by plant)	San Juan - Steam	GWh	63.2	38.5	73.4	56.8
Generation	Monthly thermal generation (by plant)	Palo Seco - Steam	GWh	163.3	98.9	163.5	163.9
Generation	Monthly thermal generation (by plant)	Costa Sur - Steam	GWh	175.2	218.6	267.5	313.6
Generation	Monthly thermal generation (by plant)	Aguirre - Steam	GWh	212.4	290.9	234.2	120.6
Generation	Monthly thermal generation (by plant)	San Juan - Combined Cycle	GWh	164.1	195.3	171.6	201.7
Generation	Monthly thermal generation (by plant)	Aguirre - Combined Cycle	GWh	98.6	78.5	54.6	47.8
Generation	Monthly thermal generation (by plant)	Mayagüez - Gas	GWh	17.6	16.5	18.6	25.3
Generation	Monthly thermal generation (by plant)	Palo Seco - Gas	GWh	40.9	14.6	5.2	14.8
Generation	Monthly thermal generation (by plant)	Costa Sur - Gas	GWh	0.0	0.0	0.0	0.0
Generation	Monthly thermal generation (by plant)	Aguirre - Gas	GWh	0.9	0.1	0.6	0.1
Generation	Monthly thermal generation (by plant)	Yabucoa - Gas	GWh	2.3	1.0	0.9	0.1
Generation	Monthly thermal generation (by plant)	Daguao - Gas	GWh	3.3	2.8	3.5	3.2
Generation	Monthly thermal generation (by plant)	Jobos - Gas	GWh	2.8	2.9	3.9	2.4
Generation	Monthly thermal generation (by plant)	Vega Baja - Gas	GWh	1.2	1.3	0.1	0.0
Generation	Monthly thermal generation (by plant)	Cambalache - Gas	GWh	23.8	16.5	22.1	21.4
Generation	Monthly thermal generation (by plant)	Vieques - Diesel	GWh	0.0	0.0	0.0	0.0
Generation	Monthly thermal generation (by plant)	Culebra - Diesel	GWh	0.0	0.0	0.0	0.1
Fuel	MMBTU consumed	Diesel #2	Million MMBTU	3.8	2.1	2.1	1.6
Fuel	MMBTU consumed	#6	Million MMBTU	4.9	4.5	5.9	6.0
Fuel	MMBTU consumed	NG	Million MMBTU	2.1	3.8	4.6	4.8
Fuel	Average fuel price	Diesel #2	\$ / MMBTU	\$14.09	\$12.02	\$20.47	\$26.93
Fuel	Average fuel price	#6	\$ / MMBTU	\$11.77	\$10.18	\$16.04	\$16.93
Fuel	Average fuel price	NG	\$ / MMBTU	\$7.83	\$9.47	\$13.17	\$12.28

