

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

**NEPR**

**Received:**

**Oct 2, 2023**

**6:02 PM**

IN RE:  
LUMA'S RESPONSE TO HURRICANE  
FIONA

**CASE NO. NEPR-MI-2022-0003**

**SUBJECT: Twenty-Second Update on Stabilization  
Plan and Request for Confidential Treatment of  
Portions Thereof**

**MOTION SUBMITTING TWENTY-SECOND UPDATE ON STABILIZATION PLAN  
FOR TEMPORARY EMERGENCY GENERATION CAPACITY AND REQUEST FOR  
CONFIDENTIAL TREATMENT OF PORTIONS THEREOF**

**TO THE HONORABLE PUERTO RICO ENERGY BUREAU:**

**COME NOW LUMA Energy, LLC** ("ManagementCo"), and **LUMA Energy ServCo, LLC** ("ServCo"), (jointly referred to as "LUMA"), and respectfully state the following:

**I. Submission of Twenty-Second Update on Stabilization Plan for Temporary  
Emergency Generation Capacity**

1. In a Resolution and Order of October 7, 2022 ("October 7<sup>th</sup> Order") with the subject "Baseload Generation Dispatch Status-Post Hurricane Fiona," this honorable Puerto Rico Energy Bureau ("Energy Bureau") convened a Technical Conference to discuss concerns raised by LUMA in a letter dated October 6, 2022, regarding Resource Adequacy and potential Generation resource deficiencies following Hurricane Fiona. Per the October 7<sup>th</sup> Order, the topics to be discussed at the Technical Conference were "(i) Dispatch Status of the available Baseload Generation post Hurricane Fiona and (ii) the identified temporary emergency mitigation measures thought to address the generation deficiencies arising from Hurricane Fiona."<sup>1</sup>

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<sup>1</sup> The Technical Conference was held as scheduled on October 11, 2022. During the Technical Conference, the Energy Bureau and consultants for the Energy Bureau posed questions to LUMA's representatives.

2. On October 12, 2022, the Energy Bureau entered a Resolution and Order whereby it ordered LUMA to develop a stabilization plan as a direct response to Hurricane Fiona, in coordination with the Federal Emergency Management Agency (“FEMA”) and the Puerto Rico Electric Power Authority (“PREPA”) “to address any baseload generation inadequacy or shortfall that affects the dispatch availability and has the potential to cause load shedding or a blackout event of the electric system (“Stabilization Plan”)” (“October 12<sup>th</sup> Order”).

3. Per the October 12<sup>th</sup> Order, LUMA was directed to submit the 1<sup>st</sup> and the 15<sup>th</sup> day of each month from the notice of the Order, an updated report addressing the efforts conducted by LUMA to assure the completion of the Stabilization Plan.

4. On October 31<sup>st</sup>, 2022, LUMA submitted the First Update on the Stabilization Plan.

5. On November 1, 2022, this Energy Bureau held a technical conference for November 1, 2022 (“October 27<sup>th</sup> Order”) in connection with the first update on the Stabilization Plan. LUMA representatives appeared to discuss the Stabilization Plan and answered questions by this Energy Bureau.

7. On November 15, 2022, LUMA submitted a Second Update on the Stabilization Plan (“Second Update”). In addition, LUMA submitted supplemental information to the Second Update arising from a joint press conference of November 15<sup>th</sup>, 2022, where the Governor of Puerto Rico, the Hon. Pedro Pierluisi and the Federal Coordinator for the Federal Emergency Management Agency (“FEMA”), Nancy Casper, announced that FEMA’s power stabilization initiative aims to install between 600 to 700 MW of temporary emergency generation capacity through the mobilization of power generation maritime barges and temporary land-based generators. *See Supplemental Submission to Second Update on Stabilization Plan to Inform of*

*Announcement by the Puerto Rico Government and FEMA on Temporary Emergency Generation Capacity*, filed on November 15, 2022.

8. On December 1<sup>st</sup>, 2022, LUMA submitted the Third Update on the Stabilization Plan.

9. The most recent updates to the Stabilization Plan were filed on December 1<sup>st</sup>, 2022 (Third Update), December 15, 2022 (Fourth Update), January 17, 2023 (Fifth Update); January 31, 2023 (Sixth Update); February 14, 2023 (Seventh Update); March 1, 2023 (Eight Update); March 15<sup>th</sup> (Ninth Update); April 3<sup>rd</sup> (Tenth Update); April 17<sup>th</sup> (Eleventh Update); May 1, 2023 (Twelfth Update); May 15, 2023 (Thirteenth Update); June 1<sup>st</sup>, 2023 (Fourteenth Update); June 15, 2023 (Fifteenth Update); July 3<sup>rd</sup>, 2023 (Sixteenth Update); July 17<sup>th</sup>, 2023 (Seventeenth Update); August 1<sup>st</sup>, 2023 (Eighteenth Update); August 15<sup>th</sup>, 2023 (Nineteenth Update); September 1<sup>st</sup>, 2023 (Twentieth Update), and September 15, 2023 (Twenty-First Update).

10. In compliance with the October 12<sup>th</sup> Order, LUMA hereby submits as *Exhibit 1*, the Twenty-Second Update on the Stabilization Plan (“Twenty-Second Update”). The Twenty-Second Update includes, among others, a summary of the status of the Stabilization Plan, the status of construction activities at the San Juan site and identifies the current scenario of generation availability and loss of load expectation (LOLE) days by month.

11. LUMA redacted portions of *Exhibit 1* and respectfully requests that those portions be kept confidential by this honorable Energy Bureau pursuant to the Energy Bureau’s Policy on Management of Confidential Information, CEPR-MI-2016-0009, issued on August 31, 2016, and partially amended on September 16, 2016 and in accordance with the confidential nature of the December 20<sup>th</sup> closed Technical Conference. In compliance with this policy, LUMA hereby submits its Memorandum of Law in support of its request for confidentiality setting forth the legal

basis for which LUMA is entitled to file portions of the Twenty-Second Report under the seal of confidentiality. As explained below, the Energy Bureau should protect several pictures included in *Exhibit I* from public disclosure as they contain CEII as defined in federal regulations and the Energy Bureau's Policy on Management of Confidential Information. *See* 18 C.F.R. § 388.113; 6 U.S.C. §§ 671-674; Energy Bureau's Policy on Management of Confidential Information.

## **II. Memorandum of Law in Support of request for Confidentiality**

### **A. Applicable Laws and Regulations to Submit Information Confidentially Before the Energy Bureau.**

The bedrock provision on the management of confidential information filed before this Energy Bureau is Section 6.15 of Act 57-2014, known as the "Puerto Rico Energy Transformation and Relief Act." It provides, in pertinent part, that: "[i]f any person who is required to submit information to the Energy Commission believes that the information to be submitted has any confidentiality privilege, such person may request the Commission to treat such information as such . . . ." 22 LPRA § 1054n. If after appropriate evaluation the Energy Bureau determines that the information should be protected, "it shall grant such protection in a manner that least affects the public interest, transparency, and the rights of the parties involved in the administrative procedure in which the allegedly confidential document is submitted." *Id.* § 1054n(a).

The confidential information shall be provided "only to the lawyers and external consultants involved in the administrative process after the execution of a confidentiality agreement." *Id.* § 1054n(b). Finally, Act 57-2014 provides that this Energy Bureau "shall keep the documents submitted for its consideration out of public reach only in exceptional cases. In these cases, the information shall be duly safeguarded and delivered exclusively to the personnel of the [Energy Bureau] who needs to know such information under nondisclosure agreements. However,

the [Energy Bureau] shall direct that a non-confidential copy be furnished for public review.” *Id.* § 1054n(c).

Relatedly, in connection with the duties of electric power service companies, Section 1.10(i) of Act 17-2019 provides that electric power service companies shall provide the information requested by customers, except for confidential information under the Rules of Evidence of Puerto Rico.

Moreover, the Energy Bureau’s Policy on Confidential Information details the procedures a party should follow to request that a document or portion thereof be afforded confidential treatment. In essence, the referenced Policy requires identifying confidential information and filing a memorandum of law explaining the legal basis and support for a request to file information confidentially. *See* CEPR-MI-2016-0009, Section A, as amended by the Resolution of September 20, 2016, CEPR-MI-2016-0009. The memorandum should also include a table that identifies the confidential information, a summary of the legal basis for the confidential designation, and why each claim or designation conforms to the applicable legal basis of confidentiality. *Id.* at ¶ 3. The party who seeks confidential treatment of information filed with the Energy Bureau must also file both “redacted” or “public version” and an “unredacted” or “confidential” version of the document that contains confidential information. *Id.* at ¶ 6.

The Energy Bureau policy on CEII is regulated by Section D of the Resolution issued on August 31, 2016, in Case No. CEPR-MI-2016-0009. Section D establishes that CEII is Validated Confidential Information and only authorized representatives may review such information:

2. Critical Energy Infrastructure Information (“CEII”)

The information designated by the [Energy Bureau] as Validated Confidential Information on the grounds of being CEII may be accessed by the parties’ authorized representatives only after they have executed and delivered the Nondisclosure Agreement.

Those authorized representatives who have signed the Non-Disclosure Agreement may only review the documents validated as CEII at the [Energy Bureau] or the Producing Party's offices. During the review, the authorized representatives may not copy or disseminate the reviewed information and may bring no recording device to the viewing room.

*Id.* at § D (on Access to Validated Confidential Information).

Further on, Energy Bureau Regulation No. 8543, includes a provision for filing confidential information in proceedings before this Energy Bureau. To wit, Section 1.15 provides that:

[A] person has the duty to disclose information to the [Energy Bureau] considered to be privileged pursuant to the Rules of Evidence, said person shall identify the allegedly privileged information, request the [Energy Bureau] the protection of said information, and provide supportive arguments, in writing, for a claim of information of privileged nature. The [Energy Bureau] shall evaluate the petition and, if it understands [that] the material merits protection, proceed accordingly to . . . Article 6.15 of Act No. 57-2015, as amended.

Regulation No. 8543, *Regulation on Adjudicative, Notice of Noncompliance, Rate Review, and Investigation Proceedings* § 1.15; *see also* Energy Bureau Regulation No. 9137 on *Performance Incentive Mechanisms* § 1.13 (addressing disclosure before the Energy Bureau of Confidential Information and directing compliance with Resolution CEPR-MI-2016-0009).

#### **B. Request for Confidentiality of the Pictures included in the Twenty-Second Update**

The Twenty-Second Update contains pictures that identify or depict CEII that, under relevant federal law and regulations, is protected from public disclosure. LUMA stresses that the pictures which LUMA redacted from the public version of the Twenty-Second Report warrant confidential treatment to protect the Puerto Rico Energy Transmission and Distribution System (“T&D System”) from threats that could undermine the system and negatively affect electric power services to the detriment of the interests of the public, customers, and citizens of Puerto Rico.

Generally, CEII or critical infrastructure information is exempted from public disclosure because it involves assets and information which pose public security, economic, health, and safety risks. Federal Regulations on CEII, particularly 18 C.F.R. § 388.113, states that:

Critical energy infrastructure information means specific engineering, vulnerability, or detailed design information about proposed or existing critical infrastructure that:

- (i) Relates details about the production, generation, transportation, transmission, or distribution of energy;
- (ii) Could be useful to a person in planning an attack on critical infrastructure;
- (iii) Is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552; and
- (iv) Does not simply give the general location of the critical infrastructure.

*Id.* at § 388.113(2).

Additionally, Section 388.113(3) defines critical electric infrastructure as a “system or asset of the bulk-power system, whether physical or virtual, the incapacity or destruction of which would negatively affect national security, economic security, public health or safety, or any combination of such matters.” *Id.* § 388.113(3). Finally, “[c]ritical infrastructure means existing and proposed systems and assets, whether physical or virtual, the incapacity or destruction of which would negatively affect security, economic security, public health or safety, or any combination of those matters.” *Id.* § 388.113(4).

The Critical Infrastructure Information Act of 2002, 6 U.S.C. §§ 671-674, part of the Homeland Security Act of 2002, protects critical infrastructure information (“CII”).<sup>2</sup> CII is defined

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<sup>2</sup> Regarding the protection of voluntary disclosures of critical infrastructure information, 6 U.S.C. § 673, provides in pertinent part that CII:

- (A) shall be exempt from disclosure under the Freedom of Information Act;
- (B) shall not be subject to any agency rules or judicial doctrine regarding ex parte communications with a decision making official;
- (C) shall not, without the written consent of the person or entity submitting such information, be used directly by such agency, any other Federal, State, or local authority, or any third party, in any civil action arising under Federal or State law if such information is submitted in good faith;

as “information not customarily in the public domain and related to the security of critical infrastructure or protected systems . . . .” 6 U.S.C. § 671(3).<sup>3</sup>

As mentioned above, the Energy Bureau’s Policy on Confidential Information provides for the management of CEII. In several proceedings, this Energy Bureau has considered and granted requests to submit CEII under seal of confidentiality.<sup>4</sup> For example, in at least two proceedings on

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- (D) shall not, without the written consent of the person or entity submitting such information, be used or disclosed by any officer or employee of the United States for purposes other than the purposes of this part, except—
    - (i) in furtherance of an investigation or the prosecution of a criminal act; or
    - (ii) when disclosure of the information would be--
      - (I) to either House of Congress, or to the extent of matter within its jurisdiction, any committee or subcommittee thereof, any joint committee thereof or subcommittee of any such joint committee; or
      - (II) to the Comptroller General, or any authorized representative of the Comptroller General, in the course of the performance of the duties of the Government Accountability Office
  - (E) shall not, be provided to a State or local government or government agency; of information or records;
    - (i) be made available pursuant to any State or local law requiring disclosure of information or records;
    - (ii) otherwise be disclosed or distributed to any party by said State or local government or government agency without the written consent of the person or entity submitting such information; or
    - (iii) be used other than for the purpose of protecting critical Infrastructure or protected systems, or in furtherance of an investigation or the prosecution of a criminal act.
  - (F) does not constitute a waiver of any applicable privilege or protection provided under law, such as trade secret protection.

<sup>3</sup> CII includes the following types of information:

- (A) actual, potential, or threatened interference with, attack on, compromise of, or incapacitation of critical infrastructure or protected systems by either physical or computer-based attack or other similar conduct (including the misuse of or unauthorized access to all types of communications and data transmission systems) that violates Federal, State, or local law, harms interstate commerce of the United States, or threatens public health or safety;
- (B) the ability of any critical infrastructure or protected system to resist such interference, compromise, or incapacitation, including any planned or past assessment, projection, or estimate of the vulnerability of critical infrastructure or a protected system, including security testing, risk evaluation thereto, risk management planning, or risk audit; or
- (C) any planned or past operational problem or solution regarding critical infrastructure or protected systems, including repair, recovery, construction, insurance, or continuity, to the extent it is related to such interference, compromise, or incapacitation.

<sup>4</sup> See e.g., *In re Review of LUMA’s System Operation Principles*, NEPR-MI-2021-0001 (Resolution and Order of May 3, 2021); *In re Review of the Puerto Rico Power Authority’s System Remediation Plan*, NEPR-MI-2020-0019 (order of April 23, 2021); *In re Review of LUMA’s Initial Budgets*, NEPR-MI-2021-0004 (order of April 21, 2021); *In re Implementation of Puerto Rico Electric Power Authority Integrated Resource Plan and Modified Action Plan*, NEPR MI 2020-0012 (Resolution of January 7, 2021, granting partial confidential designation of information submitted by PREPA as CEII); *In re Optimization Proceeding of Minigrad Transmission and Distribution Investments*, NEPR-MI



Data Security,<sup>5</sup> and Physical Security,<sup>6</sup> this Energy Bureau, *sua sponte*, conducted proceedings confidentially, recognizing the need to protect CEII from public disclosure.

Additionally, this Energy Bureau has granted requests by LUMA to protect CEII in connection with LUMA's System Operation Principles. *See* Resolution and Order of May 3, 2021, table 2 on page 4, Case No. NEPR-MI-2021-0001 (granting protection to CEII included in LUMA's Responses to Requests for Information). Similarly, this Energy Bureau granted confidential designation to several portions of LUMA's Initial Budgets and Responses to Requests for Information in the proceedings on LUMA's proposed Initial Budgets and System Remediation Plan.<sup>7</sup>

On June 30, 2023, this Energy Bureau issued a Resolution and Order granting LUMA's previous requests for confidential treatment of confidential portions of LUMA's Updates to the Stabilization Plan. Also, on July 12, 2023, this Energy Bureau issued a Resolution and Order granting LUMA's requests for confidential treatment of confidential portions of LUMA's Sixteenth Update on Stabilization Plan filed on July 3, 2023. The Energy Bureau should apply those rulings to this filing and protect the pictures in the Twenty-Second Update. The pictures depict the exact location, specifications and characteristics of the gensets and other large capacity

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2020-0016 (where PREPA filed documents under the seal of confidentiality invoking, among others, that a filing included confidential information and CEII); *In re Review of the Puerto Rico Electric Power Authority Integrated Resource Plan*, CEPR-AP-2018-0001 (Resolution and Order of July 3, 2019, granting confidential designation and PREPA's request that included trade secrets and CEII); *but see* Resolution and Order of February 12, 2021 (reversing in part, grant of confidential designation).

<sup>5</sup> *In re Review of the Puerto Rico Electric Power Authority Data Security Plan*, NEPR-MI-2020-0017.

<sup>6</sup> *In re Review of the Puerto Rico Electric Power Authority Physical Security Plan*, NEPR-MI-2020-0018.

<sup>7</sup> *See* Resolution and Order of April 22, 2021, on Initial Budgets, table 2 on pages 3-4 and Resolution and Order of April 22, 2021, on Responses to Requests for Information, table 2 at pages 8-10, Case No. NEPR-MI-2021-0004; Resolution and Order of April 23, 2021, on Confidential Designation of Portions of LUMA's System Remediation Plan, table 2 on page 5, and Resolution and Order of May 6, 2021, on Confidential Designation of Portions of LUMA's Responses to Requests for Information on System Remediation Plan, table 2 at pages 7-9, Case No. NEPR-MI-2020-0019.

equipment assembled and installed at Palo Seco, as well as pictures of the San Juan site. Thus, the pictures could be useful to a person planning an attack on the transmission and distribution facilities, as they enable a person to identify their location and provide clear depictions of the equipment which could compromise the electric power services in Puerto Rico.

LUMA respectfully submits that the pictures in the Twenty-Second Update should be designated CEII. This designation is a reasonable and necessary measure to protect critical infrastructure and enable LUMA to leverage the information and assessment of critical infrastructures without external threats. Given the importance of ensuring the safe and efficient operation of the generation assets and the T&D System, LUMA respectfully submits that the pictures be maintained confidential to safeguard the facility's integrity and protect it from external threats.

### **C. Identification of Confidential Information.**

In compliance with the Energy Bureau's Policy on Management of Confidential Information, CEPR-MI-2016-0009, below is a table summarizing the hallmarks of this request for confidential treatment.

	<b>Document or file</b>	<b>Pages in which Confidential Information is Found, if applicable</b>	<b>Summary of Legal Basis for Confidentiality Protection, if applicable</b>	<b>Date Filed</b>
1	Generation Stabilization Plan dated October 2, 2023	Pictures on pages 3, 10 and 11 of Exhibit 1.	Critical Energy Infrastructure Information 18 C.F.R. § 388.113; 6 U.S.C. §§ 671-674.	October 2, 2023

**WHEREFORE**, LUMA respectfully requests that this Energy Bureau **take notice** of the aforementioned, **accept** the Twenty-Second Update submitted as *Exhibit 1* to this Motion, **deem**

that LUMA complied with that portion of the October 12th Order that requires submission of bi-monthly updated reports on the Stabilization Plan, and **grant** the request for confidential treatment that is included in this Motion.

**RESPECTFULLY SUBMITTED.**

In San Juan, Puerto Rico, this 2<sup>nd</sup> day of October 2023

I hereby certify that this motion was filed using the electronic filing system of this Energy Bureau. I also certify that copy of this motion will be notified to the Puerto Rico Electric Power Authority, through its attorney of record: [jmarrero@diazvaz.law](mailto:jmarrero@diazvaz.law).



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*Exhibit 1*  
*Twenty-Second Update on Stabilization Report*



# Generation Stabilization Plan Discussion

October 2, 2023

# Agenda

- I. Executive Summary
- II. Construction Progress Brief
- III. Current Operations / Resource Adequacy
- IV. Construction Picture Archive

# Executive Summary

## San Juan Site (200 MW):

- San Juan site reached O&M phase (i.e., Commercial Operation Date) on 9/27
  - Nine (9) gensets produced 200 MW using natural gas fuel and demineralized water (demin water) injection
  - Contractors and LUMA staff pushed to work long hours and weekends to complete commissioning before the target deadline of 9/30 and only 170 days after contract award

# REDACTED

^ Aerial view of the San Juan new emergency genset array



## Palo Seco Site (150 MW):

- Regular operations ongoing



# Construction Progress Brief – San Juan site

## San Juan Commissioning Score Card - Progress as of 9/24

	NG First Fire	Diesel First Fire	Transformer Protection Checks	GT Breaker Test	Short Circuit	Forward Feed	Back Feed	Phase Rotation/ Dummy Sync	Live Load/ Sync
GT-1	12-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	24-Sep
GT-2	14-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	22-Sep
GT-3	14-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	22-Sep
GT-4	14-Aug	23-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	22-Sep
GT-5	15-Aug	23-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	23-Sep	9/23 & 9/24
GT-6	13-Aug	23-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	23-Sep	23-Sep
GT-7	13-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	23-Sep	23-Sep
GT-8	14-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	22-Sep
GT-9	13-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	22-Sep
GT-10	12-Aug	24-Aug	9/16-9/20	18-Sep	21-Sep	21-Sep	22-Sep	22-Sep	9/22 & 9/24

## Other Progress as of 9/27

- ✓ LUMA 115 kV Switch Yard work is complete
- ✓ All Grounding work is completed
- ✓ Cable tray cover installation is completed
- ✓ Pipe Rack Structural modifications in critical areas are complete
- ✓ Punch list items as of 9/20: Eight (8) of forty-three (43) tasks remain to be completed (all high priority items complete)
- ✓ Commissioning of Demineralized water system completed

## Commissioning Progress – 9/27

	Natural Gas W/O Demin: 24 September 2023 11:30AM (MWs)	Date	Natural Gas With Demin: 26 September 2023 (MWs)	Date
GT 1	23.6	24-Sep	24.3	26-Sep
GT 2	22.7	24-Sep	24.2	26-Sep
GT 3	22.3	24-Sep	24.6	26-Sep
GT 4	22.9	24-Sep	23.9	26-Sep
GT 4	23.6	24-Sep	24.4	26-Sep
GT 6	22.9	24-Sep	24.5	26-Sep
GT 7	20.4	24-Sep	23.2	26-Sep
GT 8	21.6	24-Sep	24.4	26-Sep
GT 9	22.6	24-Sep	23.5	26-Sep
GT 10	22.8	24-Sep	23.6	26-Sep
<b>TOTAL</b>	<b>225.4</b>		<b>240.6</b>	

## Results as of 9/27

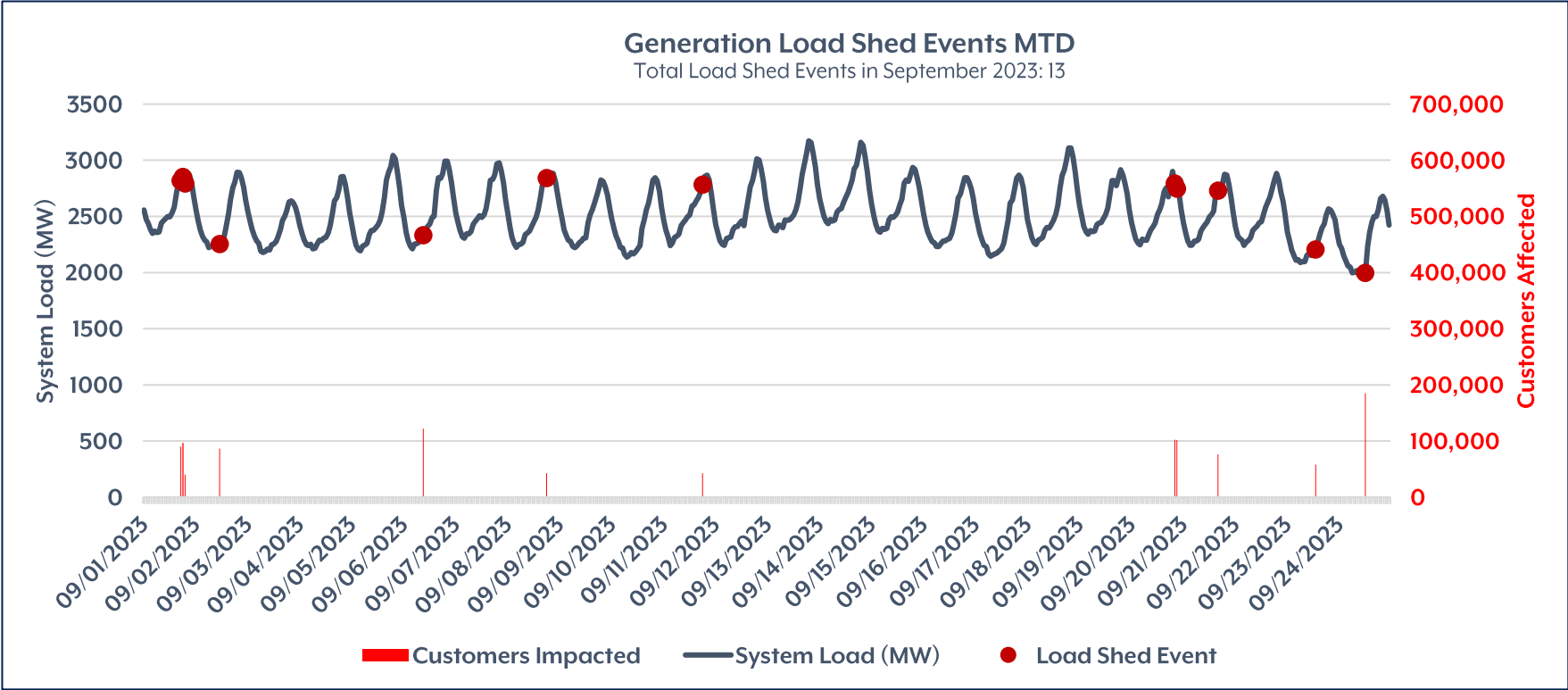
- 10 gensets produced a total of 225 MW on natural gas without demineralized water injection
- 10 gensets produced 240 MW on natural gas with demineralized water injection





# Month-to-Date Generation Load Shed Events: 5 of 13 events this month have been due to generation shortfall

Updated until 9/24/2023



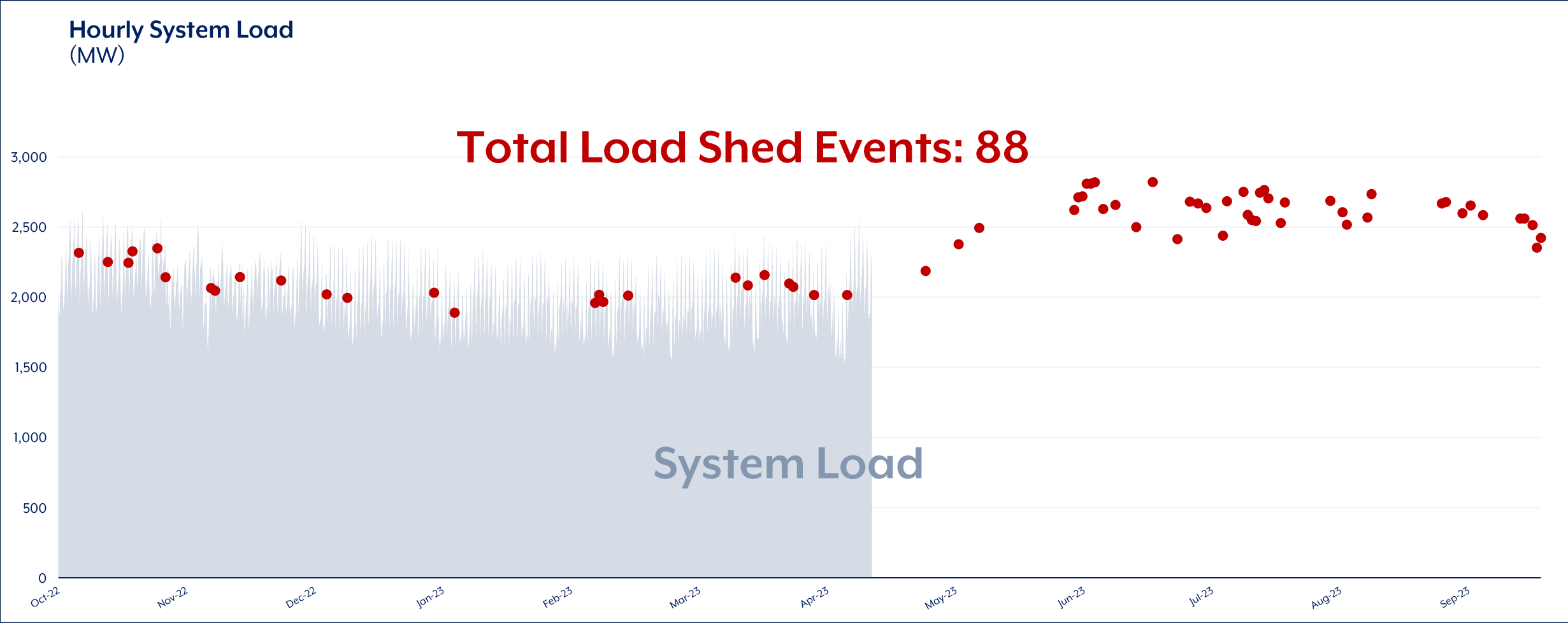
- On 09/21/2023 two load shed events occurred at the same time and are displayed in the graph as a single dot.
- Service interruptions to customers during September were mitigated by the 150 MW of emergency generation operating at Palo Seco

MTD (September 1, 2023 – September 24, 2023)	Total Events	Average Customers Affected	Average Duration (min)
Generation Shortfall Events	5	60,057	100
Unit Performance Load Shed Events	8	92,897	16



# Current Generation: 88 load shed events have occurred since October 1, 2022

Updated until 9/24/2023

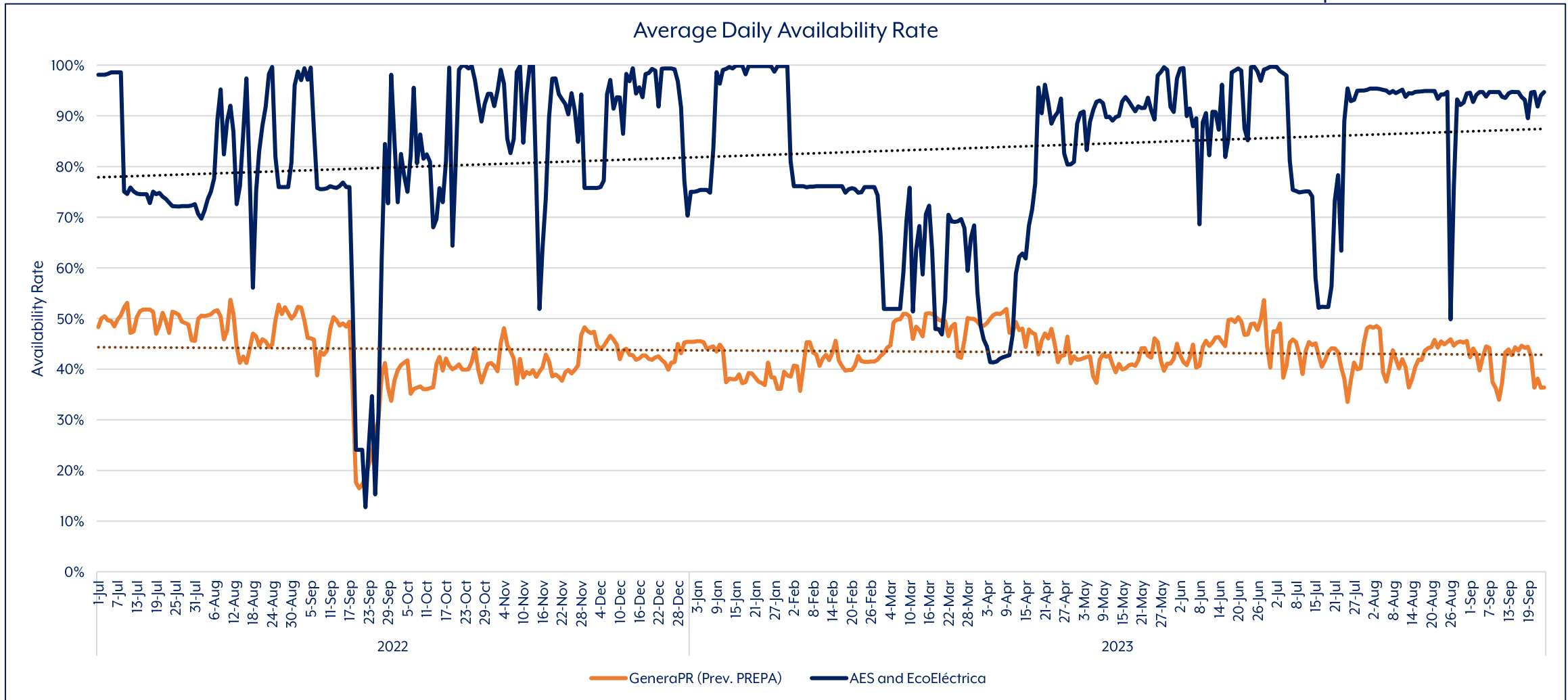


2023 - Year to Date (January 1, 2023 – September 24, 2023)	Total Events	Average Customers Affected	Average Duration (min)
Generation Shortfall Events	23	82,509	155
Unit Performance Load Shed Events	49	99,821	14

2022 - 3 months Post-Fiona (October 1, 2022 - December 31, 2022)	Total Events	Average Customers Affected	Average Duration (min)
Generation Shortfall Events	4	139,049	309
Unit Performance Load Shed Events	12	117,046	44

# Average Daily Availability

Updated until 9/24/2023

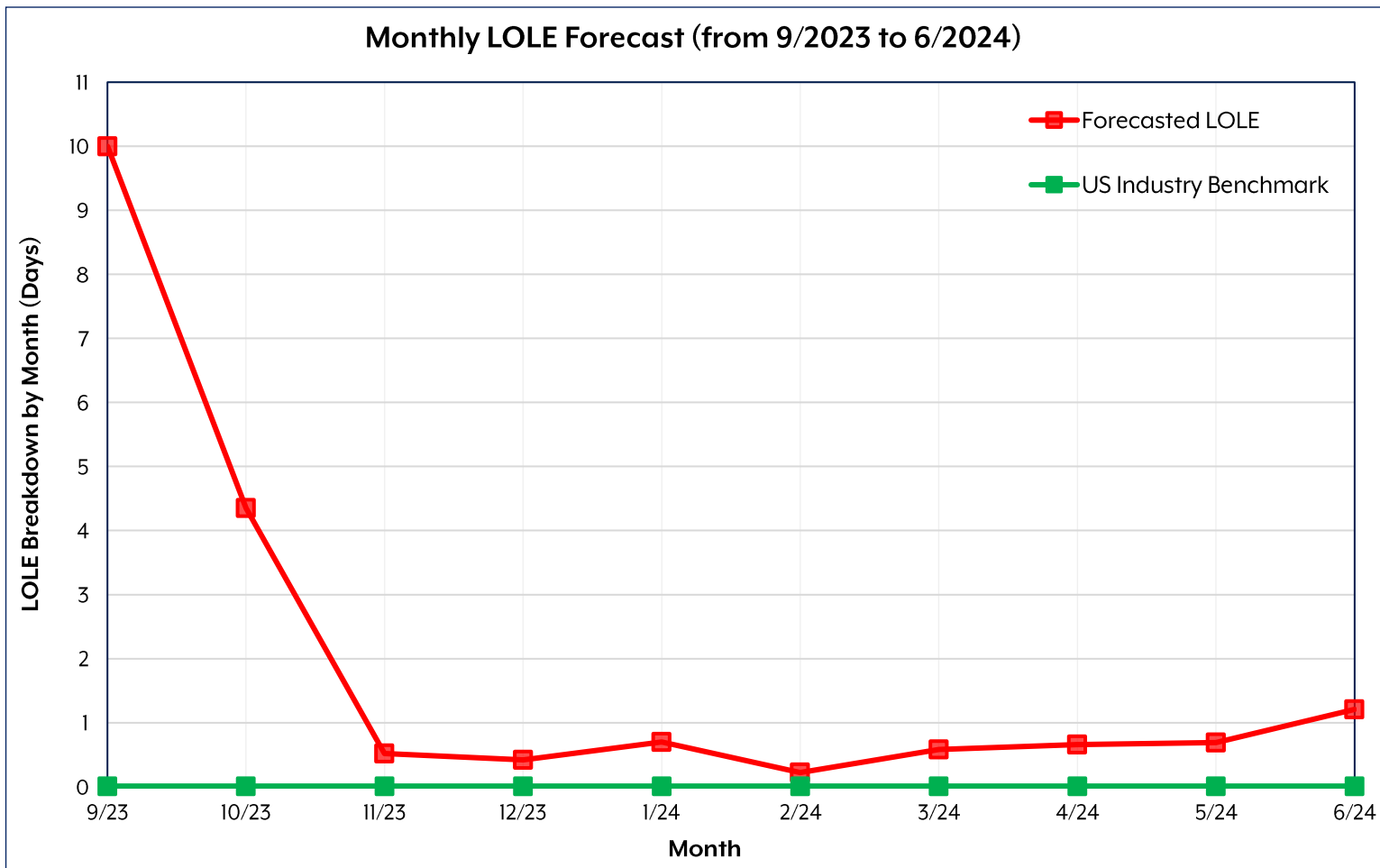


**Note:** The linear trendlines (dotted straight lines on the graph) smooth-out fluctuations in data to show a pattern or trend more clearly.

- Multiple unit forced outages continue to be a contributing factor for the load shed events this month.

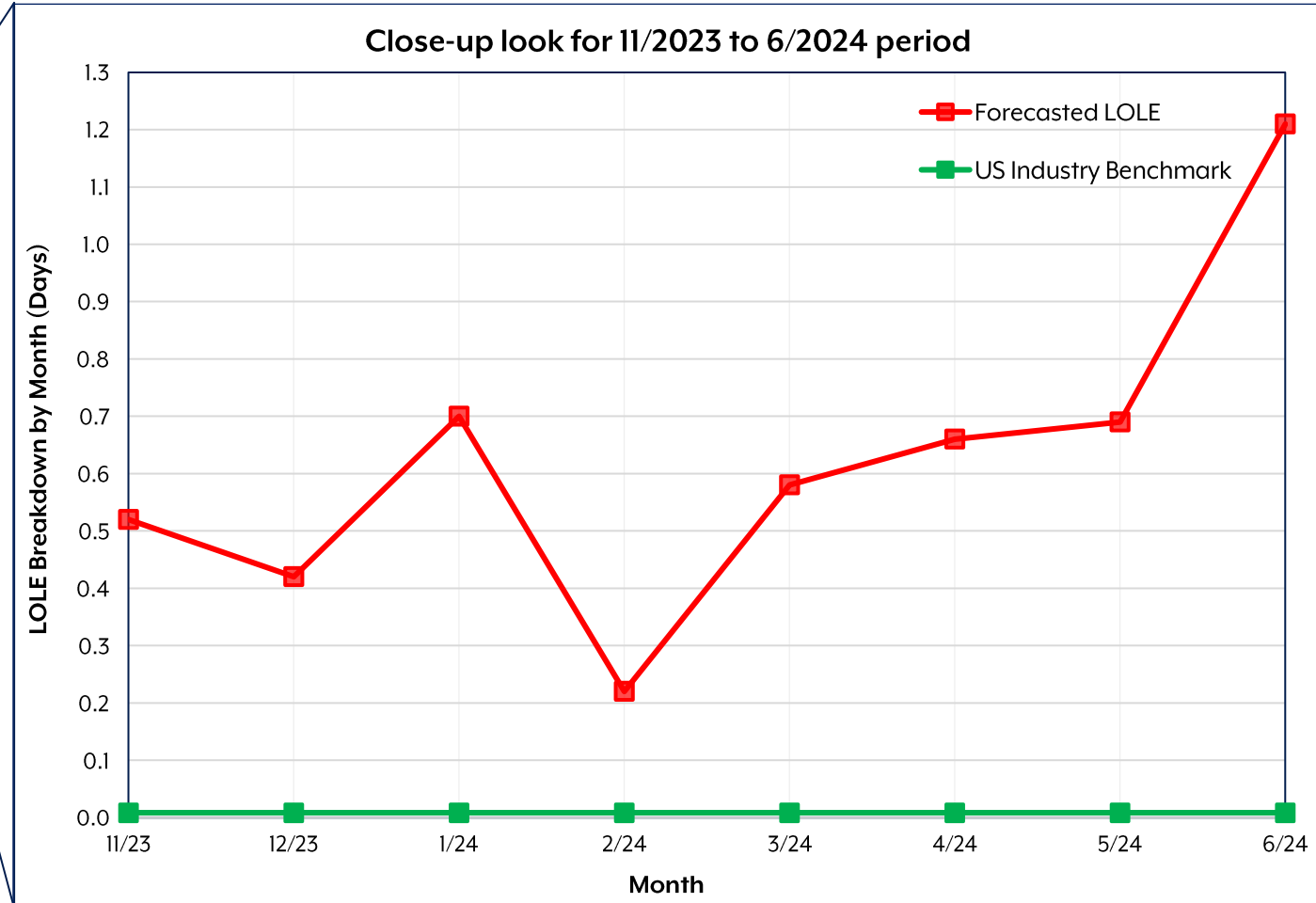
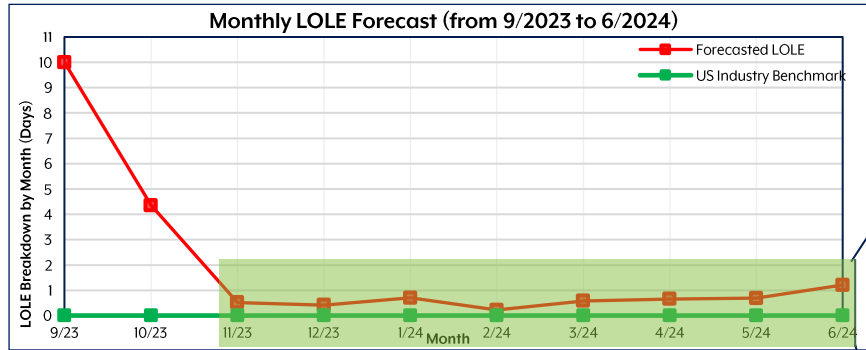


# Expect risk to decrease in November primarily due to combination of low-demand during winter and additional Emergency Generation....



- The decrease in demand during the winter months, combined with the new emergency generation, should reduce LOLE<sup>(1)</sup> over the next 6 months.
- Analysis includes
  - 150 MW of Emergency Generation from Palo Seco site during September
  - 350 MW of Emergency Generation at Palo Seco and San Juan sites from October – June.

# ..... however, risk of inadequate generation during spring still approximately 145 times US industry planning standard



- This period from 11/2023 to 6/2024 includes the 350 MW of emergency generation online.<sup>(1)</sup>
- Monthly LOLE spikes as high as 1.21 for spring season compared to national industry planning standard of .0083<sup>(2)</sup> per month.
- June LOLE approximately 145 times national average [1.21/.0083].

(1) Analysis includes 350 MW of emergency generation from 10/2023 to 6/2024, but the close-up look starts from 11/2023 for better visualization of the graph during winter and spring seasons.

(2) 0.1 annual LOLE is approximately .0083 on a monthly basis

## Picture Archive - San Juan site

REDACTED

REDACTED

^ Labeling of pipes and cable trays indicates project completion is near  
-9/20/23

REDACTED

^ Cable tray covers being install for safety and  
cable protection - 9/15/23



## Picture Archive - San Juan site

# REDACTED

^ View of the 300 MVA transformer interconnection design (low voltage side is at the bottom of the picture and high voltage side is at the top) – 9/15/23

# REDACTED

^ New 300 MVA transformer area complete with safety fence, spill containment dike and painting – 9/20/23







# LUMA

Thank you!