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10 *Attorney for Guam Power Authority*



11 **BEFORE THE GUAM PUBLIC UTILITIES COMMISSION**

12 **IN THE MATTER OF:**

GPA DOCKET NO. 13-13

13 **THE RELIABILITY OF GUAM POWER**
14 **AUTHORITY'S POWER SYSTEM**

GUAM POWER AUTHORITY'S FILING
OF ITS QUARTERLY RELIABILITY
REPORT – JUNE 2024

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19 The GUAM POWER AUTHORITY (GPA), by and through its Counsel of Record,
20 MARIANNE WOLOSCHUK, hereby files its quarterly reliability report containing data as of
21 June 30, 2024.

22
23 Respectfully submitted this 16th day of August, 2024.

24 *Attorney for Guam Power Authority*

25
26 By: 

27
28 Marianne Woloschuk
29 GPA Legal Counsel

ORIGINAL



GUAM POWER AUTHORITY

ATURIDÂT ILEKTRESEDÂT GUAHAN
P.O. BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

MEMORANDUM

August 14, 2024

To: General Manager
Via: AGMETS *JMS*
From: Engineering Manager
Subject: **PUC Filing of Quarterly Reliability Report
As Ordered in Docket 13-13**

The attached table provides a summary of the quarterly reporting requirements established by the PUC through GPA Docket 13-13 regarding the reliability of the GPA Power System. The attached report contains data as of June 30, 2024.

Please let me know if you have any questions.

[Signature]
Vincent J. Sablan, P.E.

cc: Staff Attorney
AGMO
T&D Manager
Generation Manager
PSCC Manager
Public Information Officer

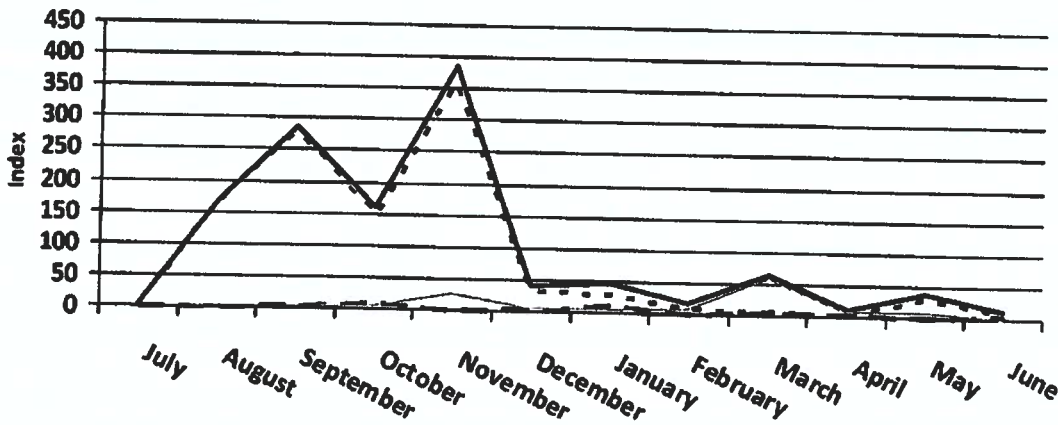
Guam Power Authority PUC Docket 13-13

Item	Reporting Requirement	GPA Response
Monthly Reporting		
1.1	One year number of outage occurrences, SAIDI, SAIFI, CAIDI and ASAI for the reporting month as well as the previous month	Attachment 1: SAIDI and SAIFI Attachment 2: CAIDI and ASAI
1.2	Breakdown among generation, transmission and distribution	Attachment 1: SAIDI and SAIFI Attachment 2: CAIDI and ASAI
1.3	Number of occurrences, SAIDI, SAIFI, and CAIDI that resulted in under frequency load shedding	Attachment 2: UFLS Contribution to Reliability and the number or occurrences as a result of under frequency load shedding
1.4	Information linking the outages to distribution circuits to track potential problem circuits	Attachment 2: Top 5 Worst Feeders Distribution Causes
1.5	Graphs depicting the monthly cumulative SAIDI, SAIFI, CAIDI and ASAI	Attachment 1: SAIDI and SAIFI Attachment 2: CAIDI and ASAI
1.6	Reporting of all generator related offline trip events, their causes and duration (whether or not customers were affected)	Attachment 3: Generation Report
1.7	Unit specific outage related to EAF and EFOR consistent with GADS reporting	Attachment 4,5,6, and 7: EAF Baseloads and Peaking, EFOR Baseloads and Peaking
1.8	Graphic representation of historic EAF and EFOR for multiple years	Attachment 4,5,6, and 7: EAF Baseloads and Peaking, EFOR Baseloads and Peaking
1.9	The total yearly outage cause breakdown by frequency and duration	Attachment 1: 12 Month Outages by Duration and Frequency
Quarterly Reporting *		
1.10	Storm CAIDI	Attachment 8: Storm CAIDI
1.11	Addition of CEMI	Attachment 8: CEMI

*Note: Quarterly reporting includes information contained in the monthly reports with the addition of Items 1.10 and 1.11.

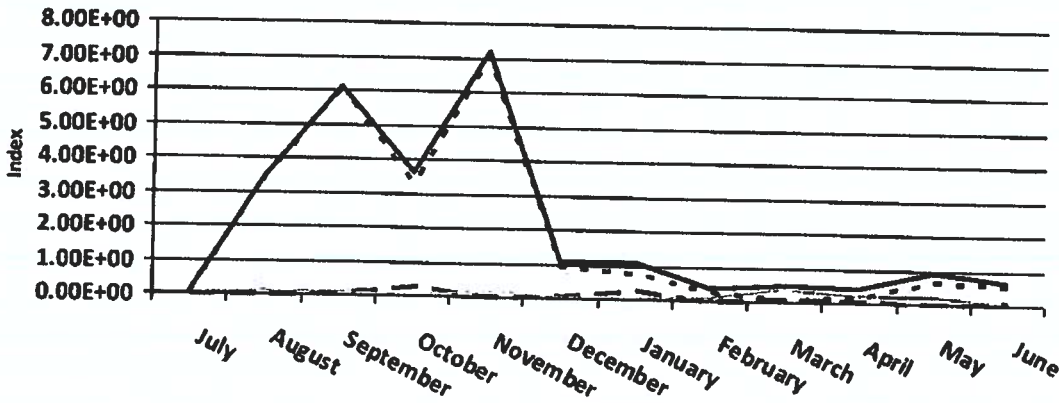


(Item 1.1,1.2,1.5) June 2024 SAIDI = 1,236.34 ↓ (1,355.69)



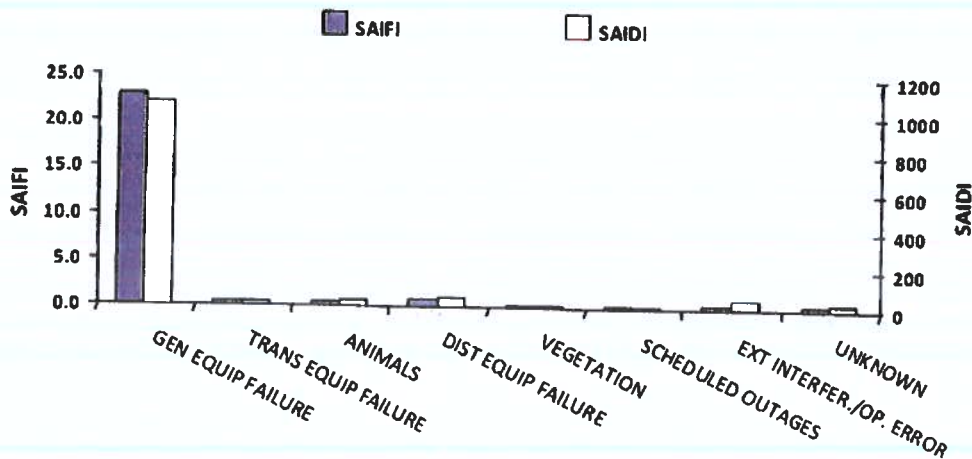
ALL
GEN=1,060.73 ↑
 (1,051.20)
TRANS=36.26 ↓
 (166.02)
DIST=139.35 ↑
 (138.47)

(Item 1.1,1.2,1.5) June 2024 SAIFI = 25.44 ↓ (26.14)



ALL
GEN=23.10 ↑
 (22.58)
TRANS=0.78 ↓
 (2.07)
DIST=1.55 ↑
 (1.50)

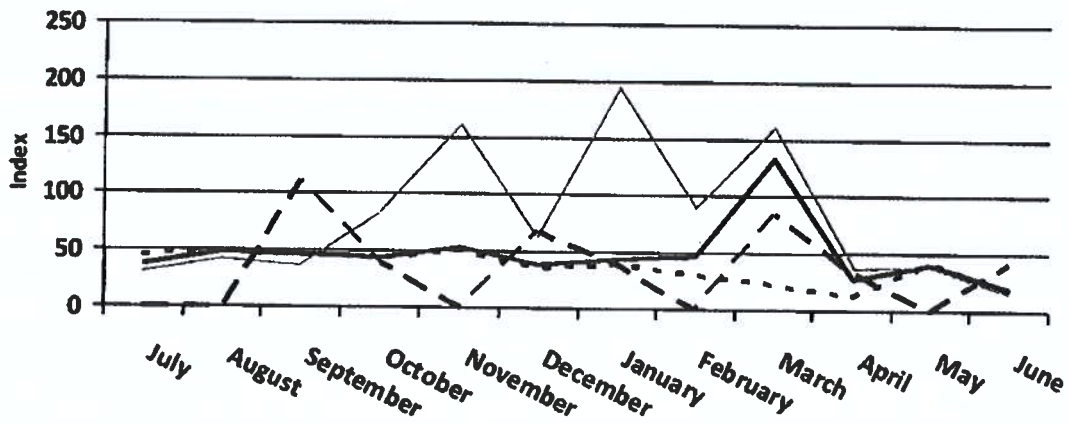
(Item 1.9) 12-Month Cause Contributions to Reliability



GEN EQUIP FAILURE
 F:86.6% D:85.5%
TRANS EQUIP FAILURE
 F:1.9% D:1.2%
ANIMALS
 F:2.3% D:2.1%
DIST EQUIP FAILURE
 F:3.5% D:3.7%
VEGETATION
 F:0.7% D:0.5%
SCHEDULED OUTAGES
 F:1.1% D:0.5%
EXT INTERFER./OP. ERROR
 F:1.7% D:3.8%
UNKNOWN
 F:2.3% D:2.5%

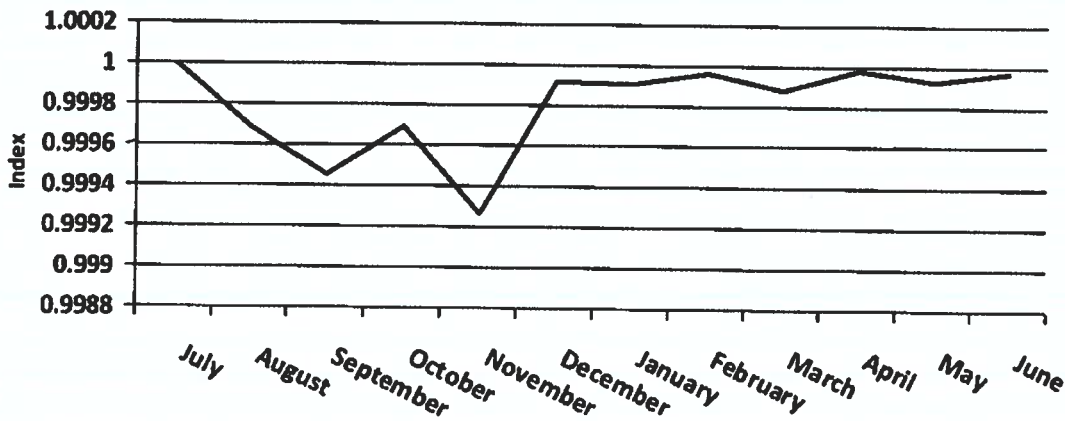


(Item 1.1,1.2,1.5) June 2024 CAIDI = 48.61 ↓ (51.86)



ALL
 GEN=45.91
 (46.56) ↓
 TRANS=46.46
 (80.33) ↓
 DIST=89.81
 (92.42) ↓

(Item 1.1,1.2,1.5) June 2024 ASAI = 0.9976 ↑ (0.9974)



(Item 1.4) Top 5 Worst Feeders Distribution Causes

#	Feeder	Outage Count
1	P340	6
2	P283	6
3	P005	5
4	P262	5
5	P310	5

(Item 1.4) Top 5 Distribution Outage Causes

#	Outage Cause	Count
1	Overhead Equipment	41
2	Snakes	19
3	Substation Equipment	11
4	Vehicles	7
5	Vegetation	7

(Item 1.3) Outage Count

TOTAL	UFLS	Non-UFLS
1879	113	1766

(Item 1.3) UFLS Contribution to Reliability

SAIDI	SAIFI	CAIDI
10.15	0.60	16.84

Item 1.6 Generation Outages

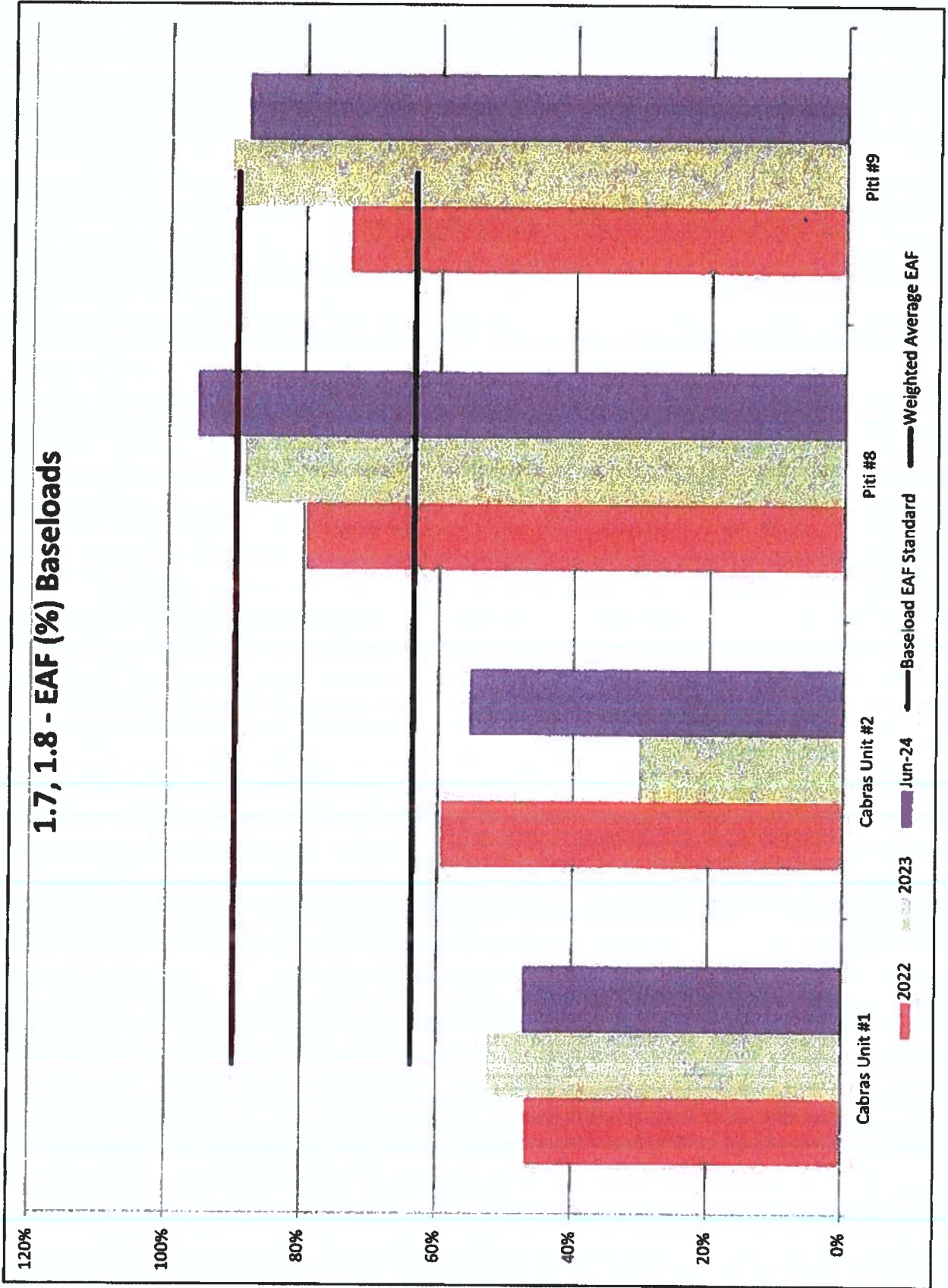
Trip Dates from Saturday, 06/01/2024 0:00 to Sunday, 06/30/2024 23:59

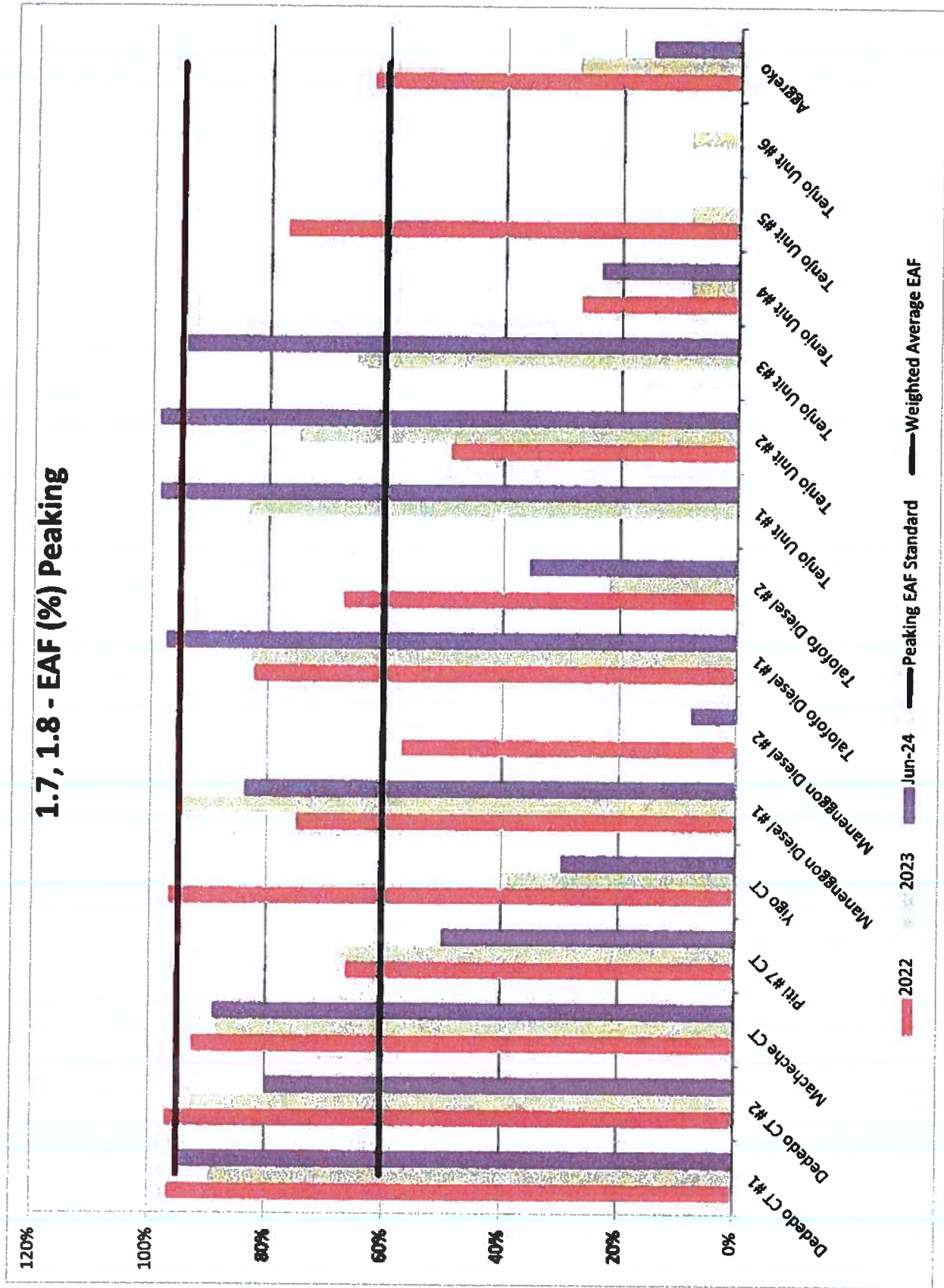
Facility	Trip		Close		Outage Duration (hr)	Situation	Root Cause
	Date	Time	Date	Time			
Talofofo 1	6/30/2024	18:01			0.00	Forced	Equipment
Piti 8	6/30/2024	9:05	6/30/2024	13:38	4.55	Scheduled	Overgeneration
Piti 8	6/29/2024	10:26	6/30/2024	13:31	27.08	Scheduled	Overgeneration
Tenjo 3	6/27/2024	18:13	6/27/2024	20:32	2.32	Unexpected	Equipment
Piti 9	6/27/2024	8:27	6/27/2024	20:49	12.37	Forced	Equipment
Dededo CT 2	6/27/2024	7:42	6/27/2024	10:41	2.98	Forced	Equipment
Dededo CT 2	6/26/2024	8:53			0.00	Forced	Equipment
Cabras 2	6/25/2024	21:00	6/26/2024	12:24	15.40	Forced	Equipment
Piti 8	6/25/2024	15:54	6/25/2024	16:55	1.02	Forced	Equipment
Talofofo ESS	6/25/2024	14:11	6/25/2024	15:26	1.25	Scheduled	Testing
Piti 8	6/25/2024	8:44	6/25/2024	13:57	5.22	Forced	Equipment
Dededo CT 2	6/24/2024	19:13	6/25/2024	1:40	6.45	Forced	Equipment
Dededo CT 2	6/24/2024	17:25	6/24/2024	18:36	1.18	Forced	Equipment
Dededo CT 1	6/24/2024	9:45	6/24/2024	16:27	6.70	Scheduled	Repair
Piti 8	6/22/2024	9:40	6/22/2024	13:24	3.73	Scheduled	Overgeneration
Aggreko	6/21/2024	16:33	6/22/2024	1:58	9.42	Unexpected	Equipment
Cabras 2	6/21/2024	2:06	6/21/2024	15:06	13.00	Forced	Equipment
Dededo CT 1	6/19/2024	9:00	6/19/2024	15:57	6.95	Scheduled	Preventive Maintenance
Aggreko	6/18/2024	17:30	6/19/2024	8:59	15.48	Unexpected	Equipment
Cabras 1	6/18/2024	8:48	6/18/2024	10:32	1.73	Scheduled	Repair
Aggreko	6/18/2024	8:00	6/18/2024	12:26	4.43	Scheduled	Repair
Dededo CT 1	6/17/2024	11:33	6/17/2024	16:16	4.72	Unexpected	Equipment
Piti 8	6/16/2024	10:36	6/16/2024	14:15	3.65	Scheduled	Overgeneration
Piti 8	6/15/2024	9:23	6/16/2024	13:39	28.27	Scheduled	Overgeneration
Talofofo 1	6/14/2024	17:49			0.00	Forced	Equipment
Piti 9	6/12/2024	9:41	6/14/2024	17:51	56.17	Scheduled	Preventive Maintenance
Piti 8	6/12/2024	6:28	6/12/2024	8:54	2.43	Forced	Equipment
Tenjo 2	6/11/2024	17:22	6/11/2024	20:40	3.30	Unexpected	Equipment
Tenjo 1	6/11/2024	17:22	6/11/2024	20:19	2.95	Unexpected	Equipment
Piti 8	6/11/2024	11:08	6/11/2024	13:21	2.22	Scheduled	Overgeneration
Pulantat 1	6/11/2024	7:57	7/6/2024	7:51	599.90	Forced	Equipment
Macheche CT	6/10/2024	23:24	6/11/2024	18:30	19.10	Scheduled	Repair
Piti 9	6/9/2024	8:52	6/9/2024	15:22	6.50	Scheduled	Overgeneration
Piti 8	6/8/2024	9:48	6/8/2024	14:55	5.12	Scheduled	Overgeneration
Piti 9	6/7/2024	13:55	6/7/2024	15:01	1.10	Unexpected	Equipment
Piti 9	6/7/2024	8:36	6/7/2024	13:55	5.32	Scheduled	Normal Operations
Piti 8	6/6/2024	12:52	6/6/2024	14:46	1.90	Forced	Equipment
Piti 9	6/6/2024	8:54	6/6/2024	12:36	3.70	Scheduled	Normal Operations
Cabras 2	6/5/2024	10:32	6/5/2024	13:06	2.57	Unexpected	Human Error
Piti 9	6/5/2024	9:50	6/5/2024	11:14	1.40	Forced	Equipment
Dededo CT 2	6/5/2024	0:01	6/9/2024	12:29	108.47	Scheduled	Preventive Maintenance

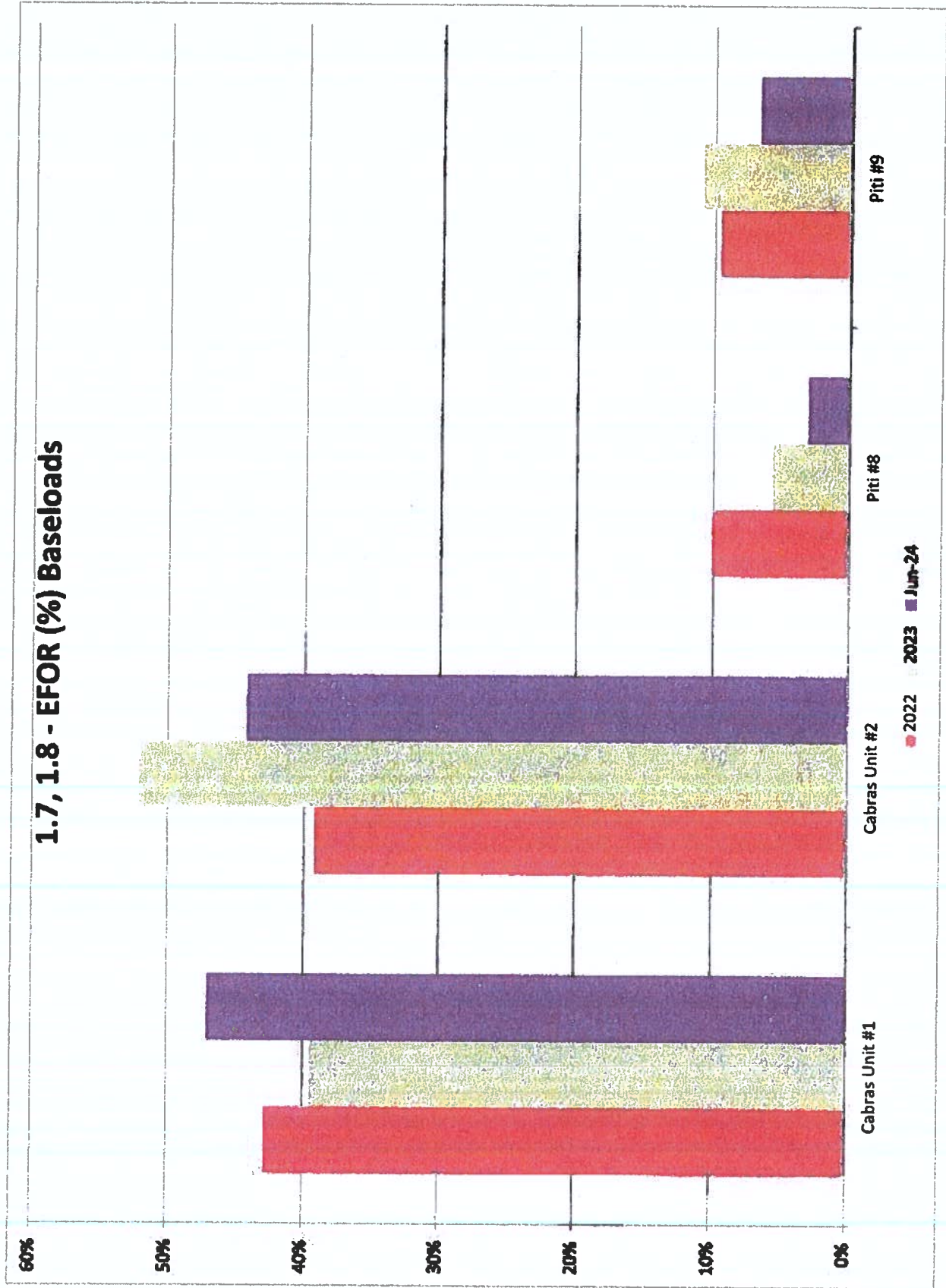
Item 1.6 Generation Outages

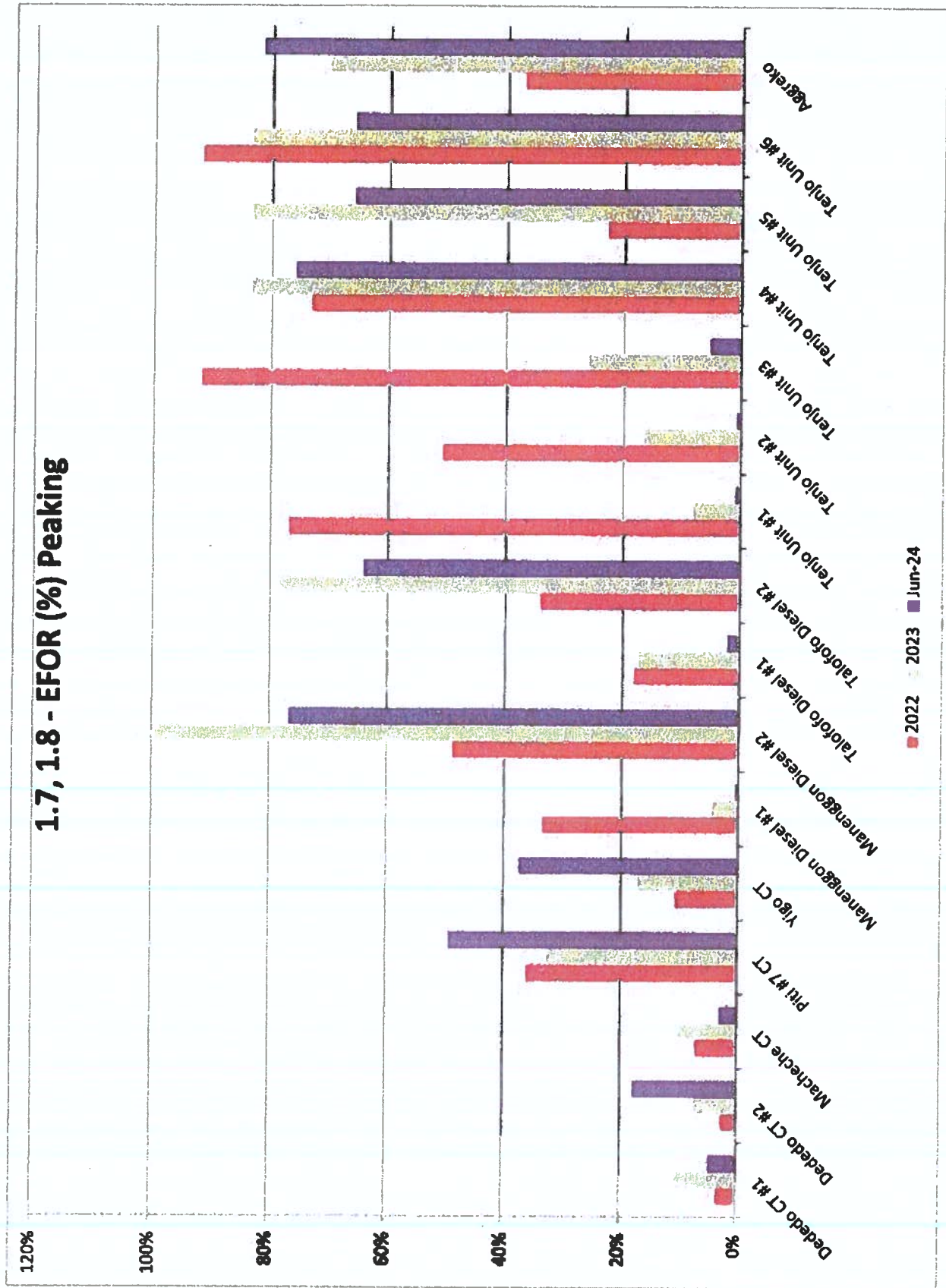
Trip Dates from Saturday, 06/01/2024 0:00 to Sunday, 06/30/2024 23:59

Facility	Trip		Close		Outage Duration (hr)	Situation	Root Cause
	Date	Time	Date	Time			
Piti 9	6/3/2024	9:20	6/14/2024	14:30	269.17	Scheduled	Testing
Piti 8	6/2/2024	9:02	6/2/2024	13:45	4.72	Scheduled	Overgeneration
Piti 8	6/1/2024	7:15	6/1/2024	10:52	3.62	Forced	Equipment







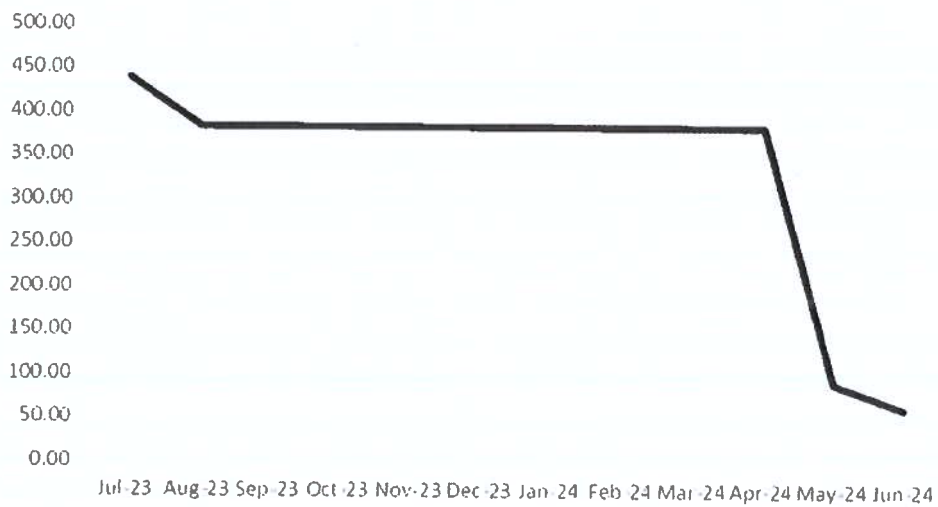


STORM CAIDI – Shortly after the completion of the Outage database in 2013, GPA began tracking outage data associated with storms as required by the PUC and CCU. Storm designations are set once COR1 is issued and removed once COR4 is issued. Listed below in Table 1.10.1 are the Storms that contributed to Storm CAIDI.

Table 1.10.1 – Storm Listing

Dates	Incident
9/10/2018	Typhoon Mangkhut
2/24/2019	Typhoon Wutip
10/8/2019	Typhoon Hagibis
5/23/2023	Typhoon Mawar

JUNE 2024 Storm CAIDI = 61.06



JUNE 2024 CEMI = 0.99

