

Monthly Generation Performance Report

#### Introduction

As part of the Transmission and Distribution System Operation and Maintenance Agreement (OMA), LUMA serves as both the operator of the electric grid and as the island's System Operator.

As the Operator of the electric grid, LUMA oversees and maintains the transmission and distribution system that is critical to delivering energy to over 1.5 million Puerto Rican customers.

As the System Operator, LUMA monitors the performance of GeneraPR and other private generators' generation units, implements dispatch of available units, and plans and maintains adequate generation reserve levels to meet customer's energy demands.

While LUMA does not generate energy, LUMA's responsibility as the System Operator includes measuring the performance of the island's generation fleet. This report summarizes generation performance, identifies trends, compares facility performance, and provides a high-level picture of the entire generation portfolio.



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### **Executive Summary – December Performance**

#### **Overview**

The maximum peak demand for February 2024 is approximately 2529 MW.

Aguirre 1 ETR has been pushed back to February 12. Aguirre 2 is expected to come back February 4. Costa Sur 5 ETR has been pushed back to February 13. Costa Sur 6 is expected to come back March 20. Palo Seco 3 ETR has been pushed back to February 28 of 2025.

#### **Major Events**

In February, the electric system experienced 0 load shed events due to generation shortfall, and 7 generation events that resulted in load shed to prevent a frequency decay.

#### **System Reserves**

In February, the hourly reserve levels averaged 691 MW, with 396 hours during the month having less than 750 MW in reserves (equal to 57% of the time.)

Without the additional 350 MW of generation from the FEMA units, the electric system would have potentially experienced 15 additional load shed events at peak hours due to generation shortfall this month.

The forecast for March 2024 shows lower reserve levels to the same month last year (March 2023), with 769 MW average reserves forecasted versus 951 MW seen for the same month last year.

The System Availability for the month of February was 43%.

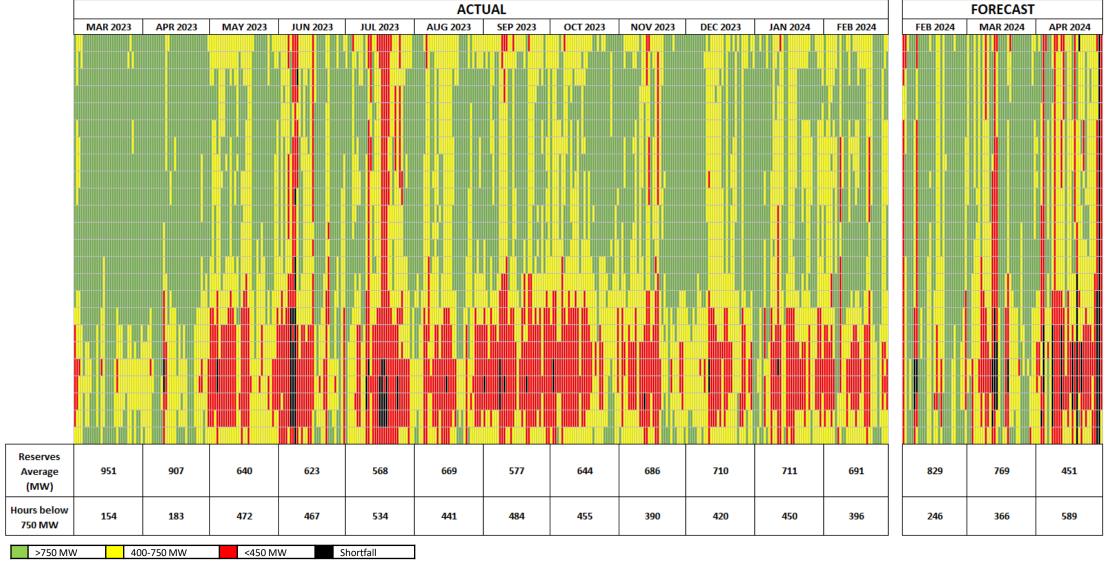
- PREPA 30%
- AES 65%
- EcoEléctrica 99%



### **System Reserves**

System Reserves is the amount of generating capacity available to meet peak or abnormally high demands for power and to generate power during scheduled or unscheduled outages.

Target: ▲ Reserves >750MW per the System Operation Principles

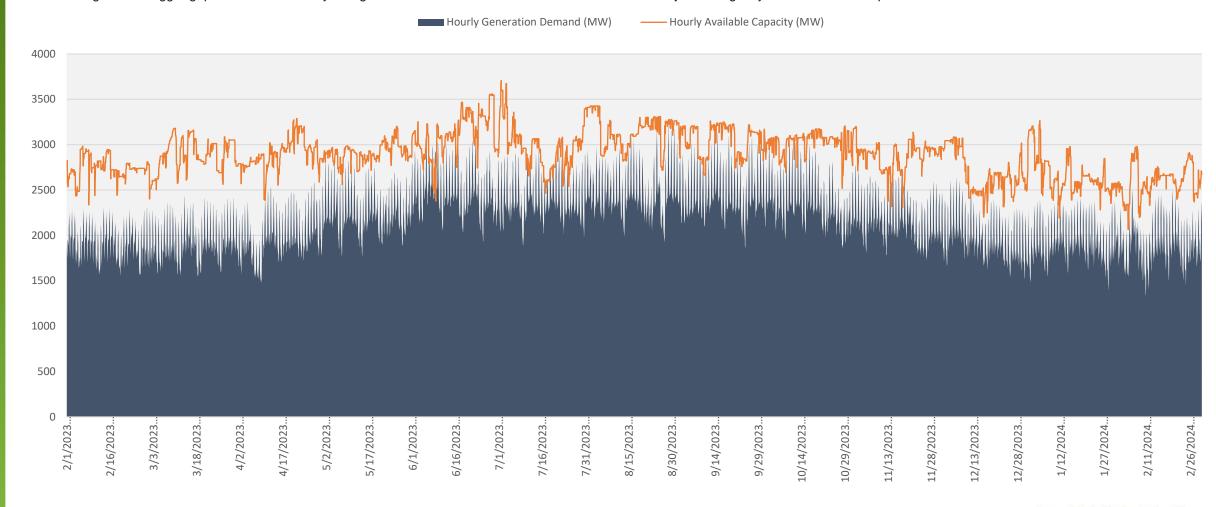


<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

### **System Availability**

The System Availability is the maximum expected output that generating units can supply to system load, adjusted for scheduled or unscheduled outages. In this graph, the availability is being compared with the total generation required to meet demand to visualize the gap between the two lines (the gap represents the reserves level).

Target: A bigger gap between availability and generation demand means a better chance of recovery in emergency events due to adequate reserves.





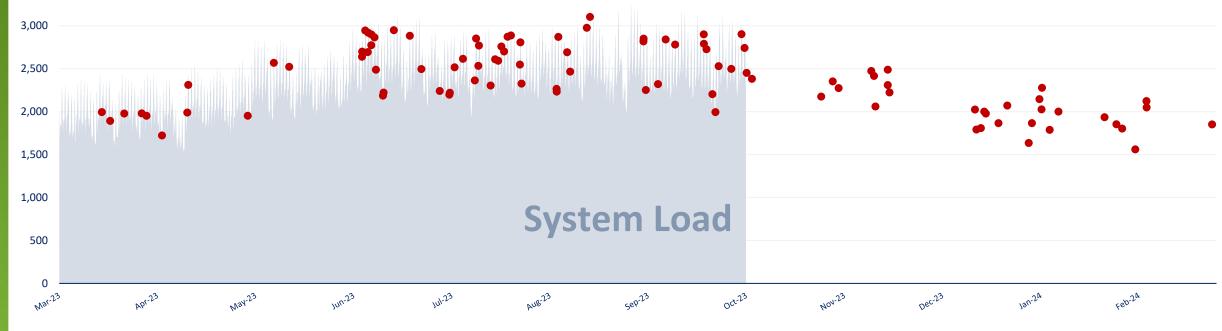
#### **Load Shed Events**

Load shed events can occur due to unexpected generation unit losses (Unit Performance Load Shed Events). Also, when the demand for electricity exceeds available supply levels, LUMA, as the system operator and in compliance with its responsibilities under the T&D OMA, implements load shedding to stabilize the electric system and prevent larger and longer outages (Generation Shortfall Events).

LUMA does not generate energy and can only operate the system with the electricity that is provided by GeneraPR, PREPA, and other island generators.

## Hourly System Load (MW)

#### Rolling 12 Months Load Shed Events: 105



<b>MTD</b> (February 1, 2024 – February 29, 2024)	Total Events	Average Customers Affected	Average Duration (min)	<b>Rolling 12 Months</b> (March 1, 2023 - February 29, 2024)	Total Events	Average Customers Affected	Average Duration (min)
Generation Shortfall Events	0	0	0	Generation Shortfall Events	27	84,007	142
Unit Performance Load Shed Events	4	49,429	16	Unit Performance Load Shed Events	78	92,417	15

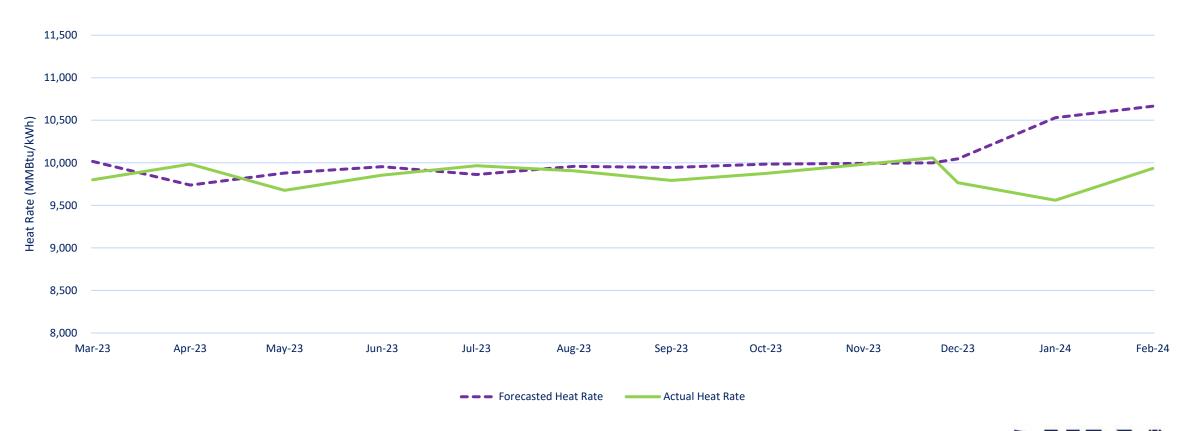
<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

### **System Heat Rate**

The System Heat Rate measures the efficiency of the system to convert fuel into electricity. System Heat Rate will vary depending on the available generation units and required resources to satisfy electrical demand. It is calculated as energy consumed (MMBtu) / energy produced (MWh). The forecasted Heat Rate is determined by the last forecast calculated for the Fuel Clause Adjustment Factor.

Target: ▼ Lower heat rates represent higher efficiency.

#### Forecasted vs Actual Heat Rate

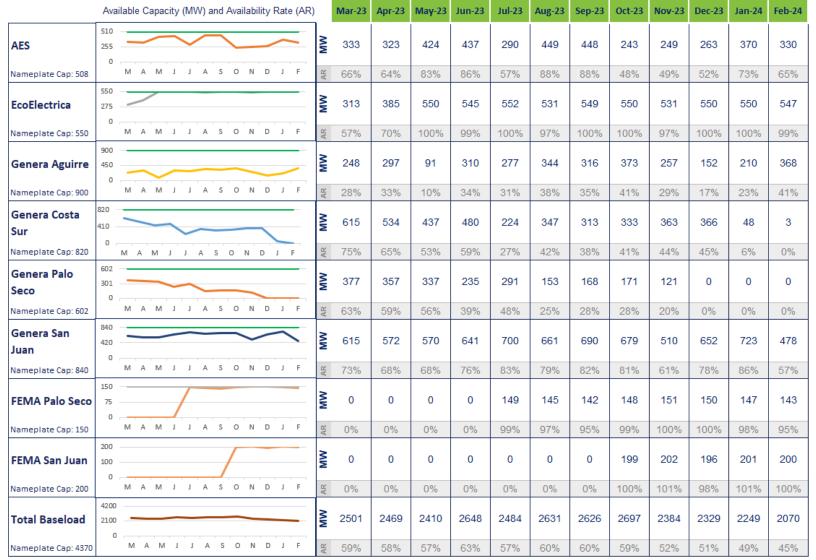




## **Available Capacity – Baseload Units**

Available Capacity is the maximum output that a unit can generate at any given time. The Availability Rate indicates the percent of available capacity out of the total nameplate capacity. Variables in the chart below are shown in MW (gross) representing an average over the month.

Target: A higher availability indicates the plant is able to produce power closer to its nameplate capacity.



<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

## **Available Capacity – Peaker Units**

Available Capacity is the maximum output that a unit can generate at any given time. The Availability Rate indicates the percent of available capacity out of the total nameplate capacity. Variables in the chart below are shown in MW representing an average over the month.

Target: A higher availability indicates the plant is able to produce power closer to its nameplate capacity.



<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

#### **Heat Rate – Baseload Units**

Heat Rate measures the efficiency of a power plant to convert fuel into electricity. It is calculated as energy consumed (MMBtu) / energy produced (MWh).

Target: ▼ Lower heat rates represent higher efficiency.

		Heat Rate (MMBtu/MWh)	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24
AES	6,000 0	M A M J J A S O N D J F	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800
EcoElectrica	6,000	M A M J J A S O N D J F	7,945	7,945	7,945	7,945	7,945	7,945	7,945	7,945	7,945	7,945	7,957	7,957
Genera Aguirre	6,000	M A M J J A S O N D J F	10,764	11,075	10,937	10,741	11,082	10,687	10,644	10,734	11,008	11,034	11,207	11,397
Genera Costa Sur	6,000	M A M J J A S O N D J F	10,639	10,892	11,053	10,733	11,835	10,616	10,788	10,887	10,857	10,838	11,323	40,045
Genera Palo Seco	6,000 0	M A M J J A S O N D J F	9,817	9,799	10,270	10,224	10,168	10,379	9,813	10,463	10,254	-	-	-
Genera San Juan	6,000	M A M J J A S O N D J F	8,091	8,419	8,059	8,248	8,458	8,476	8,477	8,574	9,317	8,956	8,973	9,432
Total Baseload	12,000 6,000 0		9,446	9,548	9,356	9,336	9,343	9,278	9,215	9,365	9,477	9,267	8,968	9,381

<sup>•</sup> The FEMA Palo Seco units are not included as not all the units' consumption is included in the Genera Fuel Report

<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

### **Heat Rate – Peaker Units**

Heat Rate measures the efficiency of a power plant to convert fuel into electricity. It is calculated as energy consumed (MMBtu) / energy produced (MWh).

Target: ▼ Lower heat rates represent higher efficiency.

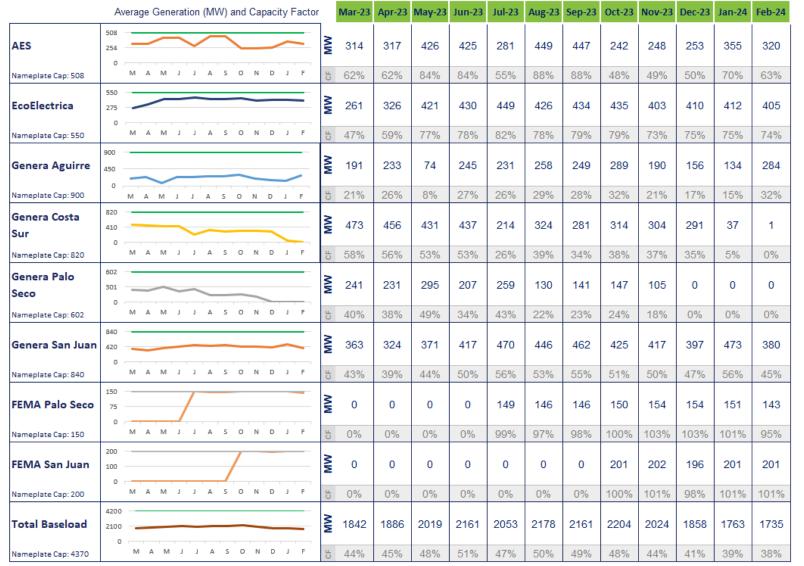
		Heat Rate (MMBtu/MWh)	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24
Genera Aguirre Combined Cycle	18,000 12,000 6,000 0	M A M J J A S O N D J F	13,524	14,562	14,945	14,766	14,365	14,969	14,444	14,811	14,969	14,921	14,671	14,989
Genera Cambalache	18,000 12,000 6,000 0	I	13,005	13,403	12,535	12,595	12,355	12,573	12,492	12,341	12,435	13,231	12,834	12,785
Genera Mayaguez	18,000 12,000 6,000 0	M A M J J A S O N D J F	10,257	10,566	10,726	10,764	10,716	10,840	10,824	10,942	10,801	11,013	10,882	10,945
Genera Palo Seco (Inc. Mobile Pack)	18,000 12,000 6,000 0	M A M J J A S O N D J F	11,233	10,896	11,320	11,517	11,324	11,454	11,572	15,072	15,981	14,925	15,146	16,487
Other Peakers	18,000 12,000 6,000 0	M A M J J A S O N D J F	14,612	13,287	14,056	13,343	13,677	14,906	14,631	15,086	14,893	14,771	15,064	15,462
Total Peakers	18,000 12,000 6,000 0	M A M J J A S O N D J F	12,419	12,634	13,005	12,819	12,501	12,697	12,578	13,731	13,962	13,195	12,755	12,951

<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

## Generation and Capacity Factor – Baseload Units

Generation indicates the average amount of energy each plant produced per month, in MW (gross). The Capacity Factor measures what percentage of the nameplate capacity was used to produce energy during that time period.

Target: ▲ Higher Capacity Factor, and a Generation closer to the nameplate capacity will represent a better utilization of the units.

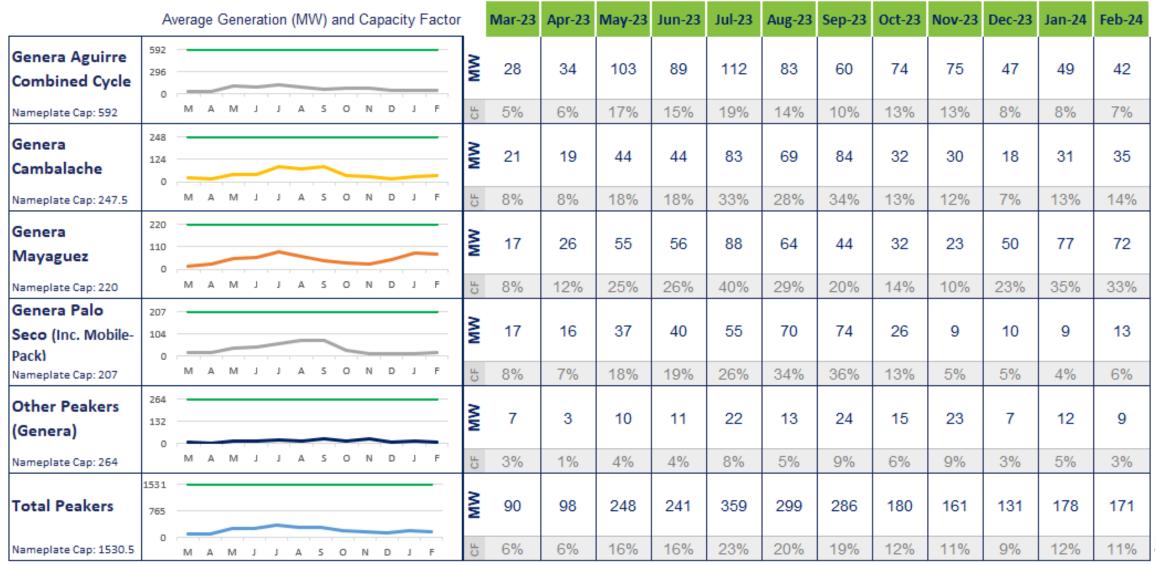


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## Generation and Capacity Factor – Peaker Units

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Target: ▲ Higher Capacity Factor, and a Generation closer to the nameplate capacity will represent a better utilization of the units.



<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

## Planned Outage Hours – Baseload Units

Planned Outage Hours represents the shutdown of a generating unit or facility for inspection or maintenance, in accordance with an advance schedule; represented in hours. This scoreboard compares the scheduled outage hours with the actual duration of the outage.

Target: 

A smaller gap between actuals and planned hours represents a more accurate planification.

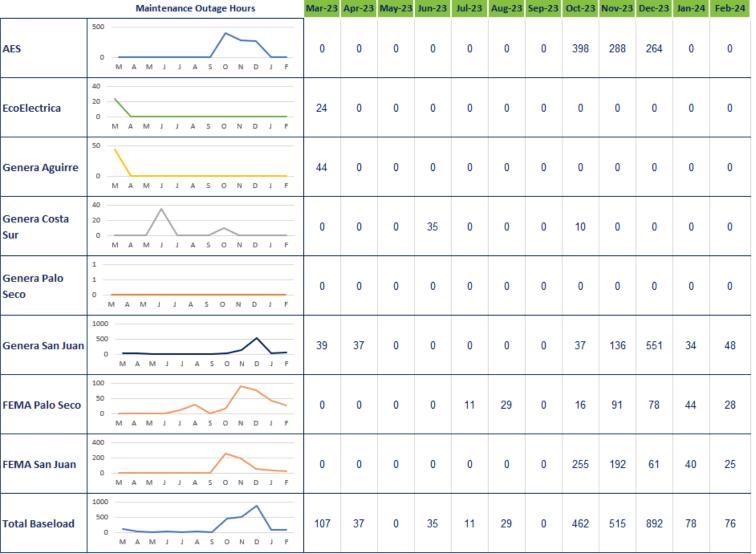
	Planned Outage Hours (MAR 2023 - FEB 2024)	Planned Outage Hours	Completed Outage Hours	Notes for In-Progress Planned Outages	Expected Return-to- Service Date
AES	■ Completed ■ Planned 0 500 1000 1500	1080	718		
EcoElectrica	© Completed © Plan ned  0 500 1000 1500	1248	1099		
Genera Aguirre	© Completed Planned 0 1000 2000	1896	72	Aguirre 1 - Environmental Maintenance	Aguirre 1 - 2/12/2024
Genera Costa Sur	© Completed Planned 0 5000 10000	6672	0		
Genera Palo Seco	■ Completed ■ Planned 0 5000 10000	5856	408		
Genera San Juan	■ Completed ■ Planned  0 2000 4000 6000	3864	2598		
FEMA Palo Seco	■ Completed ■ Planned 0 500 1000	0	602		
FEMA San Juan	■ Completed ■ Planned 0 500 1000	0	318		
Total Baseload	■ Completed ■ Planned 0 10000 20000 30000	20616	5814		

<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

## Maintenance Outage Hours – Baseload Units

Maintenance Outage Hours represent the shutdown of a generating unit or facility for nonemergency reasons or conditions which need repair outside of the advance schedule; represented in hours per unit.

Target: Vess maintenance hours represents more available capacity in the system to meet demand.

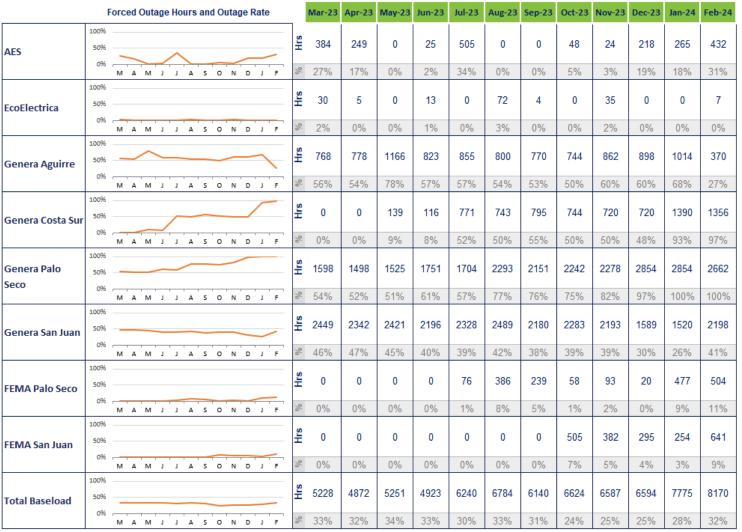


<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

## Forced Outage Hours and Rate – Baseload Units

Forced Outage Hours represent the shutdown of a generating unit or facility for emergency reasons or a condition in which the generating equipment is unavailable for load due to an unanticipated breakdown; represented in hours per unit. The Forced Outage Rate represents the percentage of time the unit was in a Forced Outage condition out of the total time the unit was expected to be available.

Target: Vess forced outage hours and a smaller outage rate represents more available capacity in the system to meet demand.

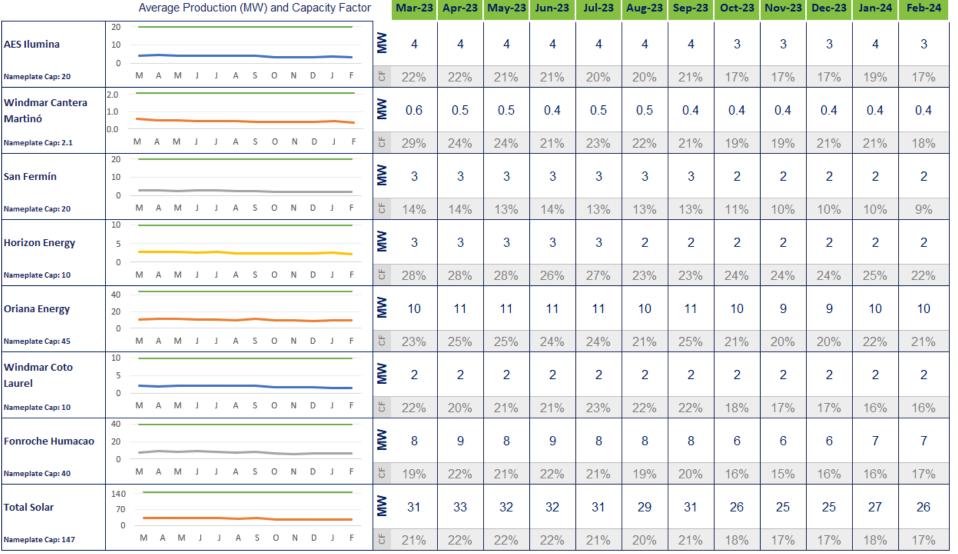


<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

### Renewables Capacity Factor - Solar

The Capacity Factor measures the actual production of electricity over the theoretical maximum output (nameplate capacity). For Renewable projects, the Capacity Factor is expected to be lower due to the solar and wind cycles.

Target: A A higher Capacity Factor represents a better utilization of the maximum capacity the project is able to produce.



<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

## Renewables Capacity Factor – Wind and Landfill

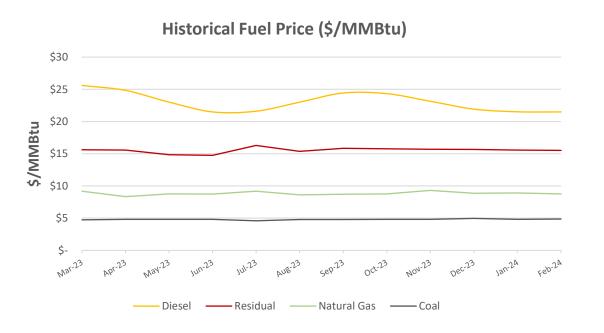
The Capacity Factor measures the actual production of electricity over the theoretical maximum output (nameplate capacity). For Renewable projects, the Capacity Factor is expected to be lower due to the solar and wind cycles.

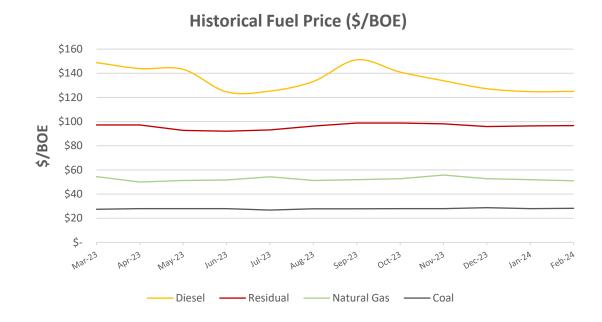
Target: A A higher Capacity Factor represents a better utilization of the maximum capacity the project is able to produce.

		Aver	rage	Prod	luctio	n (M	IW) a	ınd	Capa	acit	y Fact	or	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24
Pattern Santa Isabel	74 37 0	_			_							MW	14	13	11	12	20	14	6	5	12	12	17	10
Nameplate Cap: 75		M A	A M	J	J	А	s c	)	N D		J F	CF	19%	18%	15%	15%	27%	19%	9%	6%	17%	15%	22%	13%
Punta Lima	26 13											MW	0	0	0	0	0	0	0	1	3	4	6	4
Nameplate Cap: 26		M A	A M	J	J	Α	s c	)	N D		J F	CF	0%	0%	0%	0%	0%	0%	0%	4%	11%	17%	25%	14%
Landfill Gas Fajardo	2.4 1.2 0.0		_									MW	0.5	0.4	0.7	0.5	0.5	0.4	0.3	0.6	0.3	0.5	0.2	0.0
Nameplate Cap: 2.4		M	A M	l J	J	Α	S (	)	N D		J F	CF	22%	15%	28%	22%	21%	16%	14%	24%	11%	22%	10%	0%
Landfill Gas Toa Baja	2.4 1.2 0.0	_					_	_				WW	0.6	0.8	0.6	0.9	1.3	0.9	1.1	1.3	1.2	1.1	1.0	1.0
Nameplate Cap: 2.4		M	A M	l J	J	Α	S (	)	N D		J F	CF	27%	32%	24%	39%	55%	36%	45%	55%	49%	46%	42%	43%
Total Wind and Landfill	80 40 0											MW	15	14	12	13	22	16	8	8	17	17	24	14
Nameplate Cap: 80		M A	A M	J	J	Α	S (	)	N D		J F	P.	14%	14%	12%	12%	21%	15%	7%	7%	16%	17%	23%	14%

### **Fuel Prices**

Fuel Price shows the prices paid for fuel used by PREPA and private generators, both in terms of MMBtus and Barrel of Oil Equivalent (BOE). The Fuel Price is divided by Fuel Type to better illustrate the contribution to the total Fuel Price for the month.





\$/MMBtu
Diesel
Residual
Natural Gas
Coal
\$/BOE
Diesel

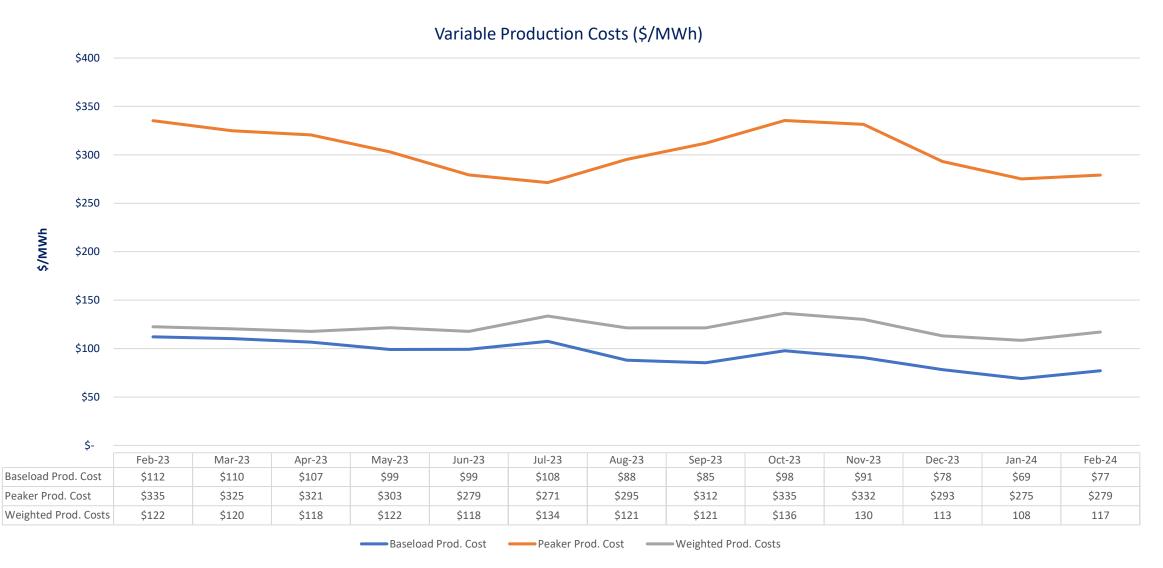
\$/BOE
Diesel
Residual
Natural Gas
Coal

25.60     24.84     23.02     23.88     21.61     23.01     23.01     24.43     24.33     23.15     21.93     21.52       15.62     15.57     14.86     14.75     16.29     15.37     15.37     15.83     15.77     15.70     15.66     15.57	21.50
15.62 15.57 14.86 14.75 16.29 15.37 15.83 15.77 15.70 15.66 15.57	45.50
200 200 200 200 200 200 200 200 200 200	15.52
9.19 8.34 8.77 8.73 9.18 8.62 8.62 8.72 8.77 9.30 8.87 8.91	8.77
4.73 4.80 4.80 4.80 4.60 4.79 4.79 4.79 4.80 4.80 4.95 4.80	4.85

148.87	143.93	143.30	124.61	125.28	133.24	133.24	151.21	141.06	133.88	127.24	124.84	125.03
97.22	97.19	92.75	92.01	93.14	96.34	96.34	98.81	98.75	98.09	95.89	96.38	96.71
54.41	49.88	51.27	51.62	54.32	51.23	51.23	51.93	52.63	55.73	52.63	51.96	50.94
27.43	27.86	27.86	27.86	26.68	27.78	27.78	27.78	27.86	27.86	28.69	27.85	28.16

#### **Variable Production Costs**

Variable Production Costs are predominantly fuel costs and reflect the cost to produce one MWh of energy. In the graph, the cost is shown separately for Baseload units and Peaker units. The weighted average cost indicates the cost per MWh of energy produced for the System Portfolio.



<sup>\*</sup>Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

# **Glossary of Terms**

Term	Definition	Formula
Heat Rate	Measures the efficiency of a power plant to convert fuel into electricity. It is the amount of energy used by a power plant to generate one kilowatt-hour (kWh) of electricity. The more efficient the generator is, the lower the heat rate.	MMBtu consumption by all units in the station during a specific period / MWh produced by the same units in the same period
Reserves	Amount of generating capacity available to meet peak or abnormally high demands for power and to generate power during scheduled or unscheduled outages.	Available Capacity (MW) during the reported period minus the Actual Generation (MW) during the same period
Available Capacity	The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for scheduled or unscheduled outages.	N/A – value is provided for each unit
Availability Rate	The ratio of the maximum output that can be supplied to system load for the period of time considered to the nameplate capacity.	Average available capacity for a specific period (MW) / nameplate capacity
Production	The amount of electric energy produced.	N/A – value is provided for each unit
Capacity Factor	The ratio of the electrical energy produced by a generating unit for the period of time considered to the nameplate capacity.	The average energy produced by all units in the plant during a specific period (MWh) / Nameplate capacity for the plant
Planned Outage Hours	The shutdown of a generating unit or facility for inspection or maintenance, in accordance with an advance schedule; represented in hours per unit (Equivalent Planned Outage Hours).  Planned Hours – hours provided in the Generation Outage Schedule for the following 90-day outlook.  Actual Hours – number of hours a unit was out of service due to a planned outage.	N/A – values is provided for each unit
Maintenance Outage Hours	The shutdown of a generating unit or facility for nonemergency reasons or conditions which need repair outside of the advance schedule; represented in hours per unit.	N/A – value is provided for each unit
Forced Outage Hours	The shutdown of a generating unit or facility for emergency reasons or a condition in which the generating equipment is unavailable for load due to unanticipated breakdown; represented in hours per unit.	N/A – value is provided for each unit
Forced Outage Rate	The ratio of the forced outages hours to the hours the unit was anticipated to be available for the reporting period.	Forced Outage Hours / Period Hours (excluding planned and unplanned outage hours)
Nameplate Capacity	The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer.	N/A – value is provided for each unit
Generation Shortfall Events	An event in which customer demand for electricity is unable to be met due to lack of Available Capacity, leading to customers being manually disconnected from the grid.	N/A – Value is all events which occur in a specified time frame
Unit Performance Load Shed Events	An event in which a generating unit has an unanticipated breakdown and causes customers to be automatically disconnected from the grid to prevent potential damage to the system.	N/A – Value is all events which occur in a specified time frame

### Plant and Unit List – Baseload and Peaker Units

BASELOAD UNITS										BASE	LOAD	JNITS				PEAKER UNITS							
Plant	Units	System Reserves	System Availability	System Heat Rate	All Metrics for Baseload Units	All Metrics for Peaker Units	Renewables Capacity Factor	Plant	Units	System Reserves	System Availability	System Heat Rate	All Metrics for Baseload Units	All Metrics for Peaker Units	Renewables Capacity Factor	Plant	Units	System Reserves	System Availability	System Heat Rate	All Metrics for Baseload Units	All Metrics for Peaker Units	Renewables Capacity Factor
	CT 5	Х	Х	Х	X				GT 1	Х	Х		Х				Daguao 1-1	Χ	Х	Х		Χ	
	STM 5	X	X	X	X				GT 2	X	X		X				Daguao 1-2	X	X	X		X	
	CT 6	X	X	X	X			FEMA	GT 3	X	X		X				Aguirre 2-1	X	X	X		X	
San Juan	STM 6	X	X	X	X			San Juan	GT 4	X	X		X				Aguirre 2-2	X	X	Х		X	
Sali Juali	7	X	X	X	X			Sali Juali	GT 5	X	X		X				Costa Sur 1-1	X	X	X		X	
	8	X	X	X	X				GT 6	X	X		X				Costa Sur 1-2	X	X	X		X	
	9	X	X	X	X				GT 7	X	X		Х				Jobos 1-1	X	X	X		X	
	10	X	X	X	X				GT 8	X	X		X			Other	Jobos 1-2	X	X	X		X	
Cooto Cum	5	Х	Х	Х	Х				GT 9	X	X		X			Peakers	Yabucoa 1-1	X	X	X		X	
Costa Sur	6	Х	Х	Х	X				GT 10	Х	X		Χ			i cakers	Yabucoa 1-2	X	X	X		X	
A	1	Х	Х	Х	Х												Vega Baja 1-1	X	X	X		X	
Aguirre	2	X	Х	Х	X					PE/	AKER UI	NITS					Vega Baja 1-2	X	X	Χ		X	
	1	Х	Х	Х	Х				1-1	X	X	X		X			Vieques 1	X	Х	Χ		X	
Dala Casa	2	X	X	X	X				1-2	X	X	X		X			Vieques 2	X	X	Х		X	
Palo Seco	3	Х	Х	Х	X			Dala Casa	2-1	X	X	X		X			Culebra 1	X	X	Х		X	
	4	X	Х	Х	X			Palo Seco	2-2	X	X	X		X			Culebra 2	X	X	X		X	
	AES 1	Х	Х	Х	Х			(Inc. Mobile-	3-1	X	X	X		X			Culebra 3	X	Х	Х		Х	
AES	AES 2	X	Х	Х	X			Pack)	3-2	X	X	X		X			1	X	X	Х		Х	
	ECO 1	Х	Х	Х	Х			r ack)	MP 1	X	X	X		Χ		Cambalache	2	X	X	X		X	
EcoEléctrica	ECO 2	Х	Х	Х	Х				MP 2	X	X	X		Χ			3	X	X	X		X	
	STM 1	Х	Х	Х	Х				MP 3	X	X	X		Χ			1A	X	X	X		X	
	GT 1	X	X		X				I-1	X	X	X		X			1B	X	X	X		X	
	GT 2	Х	Х		Х				I-2	X	X	X		X			2A	X	X	X		X	
FEMA	GT 4	X	X		X				I-3	X	X	X		Х		Mayaguez	2B	X	X	X		X	
Palo Seco	GT 5	X	X		X				1-4	X	X	X		Х		. 3	3A	X	X	X		X	
. 4.0 0000	GT 6	X	X		X			Aguirre CC	ST-1	X	X	Х		Х			3B	X	X	X		X	
	GT 7	X	X		X			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	II-1	X	X	Х		Χ			4A	X	X	X		X	
	017	, ,	,		,				II-2	X	X	Х		X			4B	X	X	X		Х	
									II-3	X	Х	X		Χ									
									II-A	X	X	Y		X									

## Plant and Unit List – Renewable Projects

SOLAR PROJECTS	WIND AND LANDFILL PROJECTS	HYDRO PLANTS
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Projects	System Reserves	System Availability	System Heat Rate	All Metrics for Baseload Units	All Metrics for Peaker Units	Renewables Capacity Factor	Projects	System Reserves	System Availability	System Heat Rate	All Metrics for Baseload Units	All Metrics for Peaker Units	Renewables
AES Ilumina						Х	Pattern Santa Isabel						Х
Cantera Martinó						Х	Punta Lima						Х
San Fermín						Х	Landfill Gas Fajardo						Х
Horizon Energy						Х	Landfill Gas Toa Baja						Х
Oriana Energy						Х							
Coto Laurel						Х							
Humacao						Х							

Projects	System Reserves	System Availability	System Heat Rate	All Metrics for Baseload Units	All Metrics for Peaker Units	Renewables Capacity Factor
Caonillas 1-1						
Caonillas 1-2						
Caonillas 2-1						
Dos Bocas 1						
Dos Bocas 2						
Dos Bocas 3						
Garzas 1-1						
Garzas 1-2						
Garzas 2-1						
Patillas 1-1						
Patillas 1-2						
Rio Blanco 1-1						
Rio Blanco 1-2						
Toro Negro 1-1						
Toro Negro 1-2						
Toro Negro 1-3						
Toro Negro 1-4						
Toro Negro 2-1						
Yauco 1-1						
Yauco 2-1						
Yauco 2-2						