



Monthly Generation Performance Report

November 2025

Introduction

This report oversees Puerto Rico's electrical system overall performance; from system level to unit's level. System level measures shown are generation, availability and reserves level. Additionally, a summary of load shed events occurred in the last 12 months prior to this report's month. At plant and unit level, it oversees generation, availability, heat rate, and outage hours (planned, maintenance and forced). Finally, in terms of economics, fuel and variable costs are shown.

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 Genera PR 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

November 2025 performance

Electric System Overview

Units offline:

- **AES 1 (227 MW):** expected date of return from planned outage was November 2, 2025, unit entered in service on November 6, 2025.
- **San Juan 5 CC CT & STM units (220 MW):** planned outage started at scheduled date on November 15, 2025; however, unit entered back in service on November 16, 2025, due to Costa Sur 6 forced outage. San Juan 5 CC started again the planned outage on November 19, 2025, with estimated date of return by December 15, 2025.
- **EcoEléctrica CT 1 unit (175 MW):** Unit successfully completed planned outage from November 1, 2025, until November 27, 2025.
- **San Juan 6 CC STM unit (60 MW):** expected date of return was moved from February 16, 2026, to February 28, 2026.
- **San Juan 7 (100 MW):** expected date of return was moved from February 16, 2026, to February 23, 2026
- **Aguirre 1 (450 MW):** expected date of return was moved from December 1, 2026, to December 23, 2026.

Peak demand and Reserves:

- The maximum peak demand was approximately **2,783 MW**.
- Hourly reserves levels averaged **906 MW**, with 220 hours of the month having less than 750 MW of reserves (~30% of the time).
- Forecast average reserves for December 2025 is **901 MW**, higher than December 2024 actual average reserves with **885 MW**.

Load Shed Events: 7 total

- **6 Under-Frequency Load Sheds** due to generation unit trips.
- **1 Manual Load Shed** due to generation shortfall event.

Weighted system availability rate was **56%**

- Genera – 52%
- AES – 87%
- EcoEléctrica – 54%



Operations

System-Level Performance



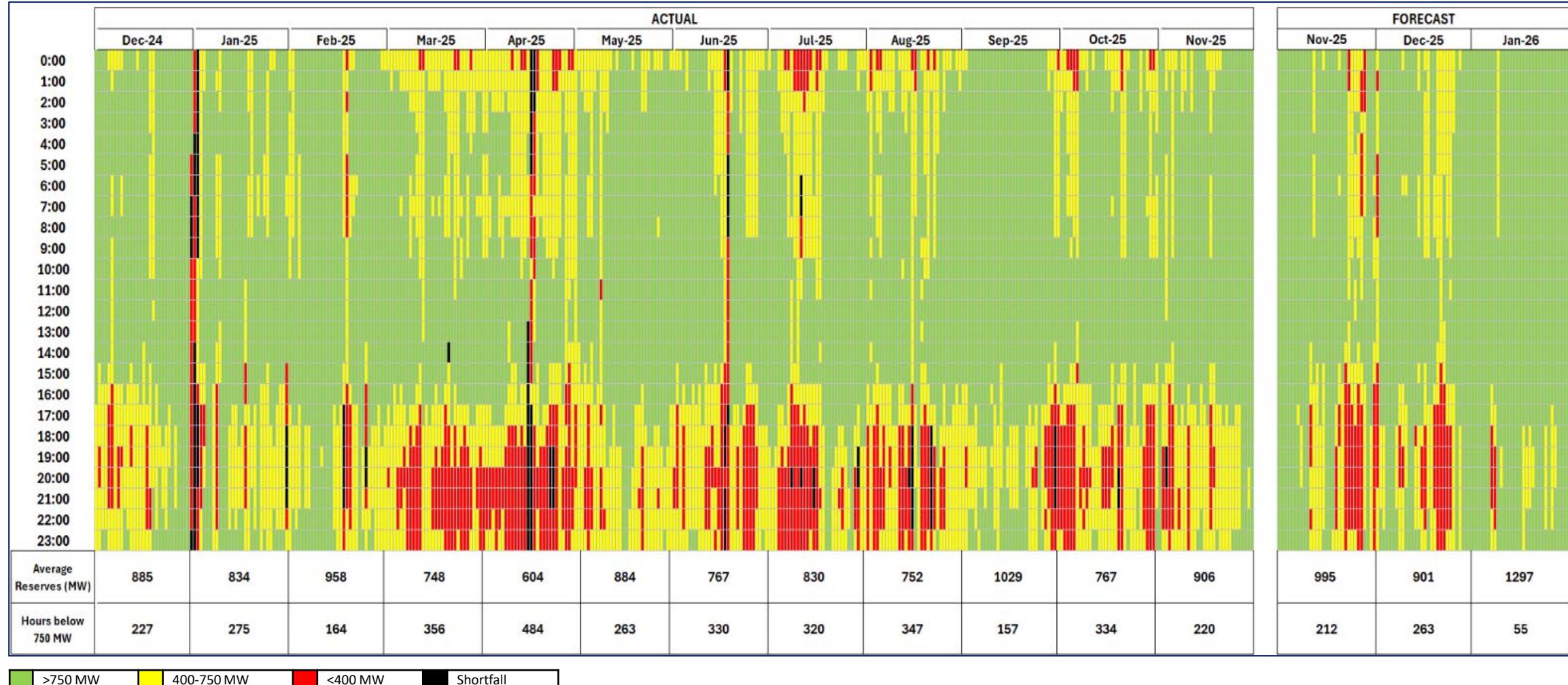
System Reserves

Actual reserves timeframe: December 2024 – November 2025

Forecasted reserves timeframe: November 2025 – January 2026

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

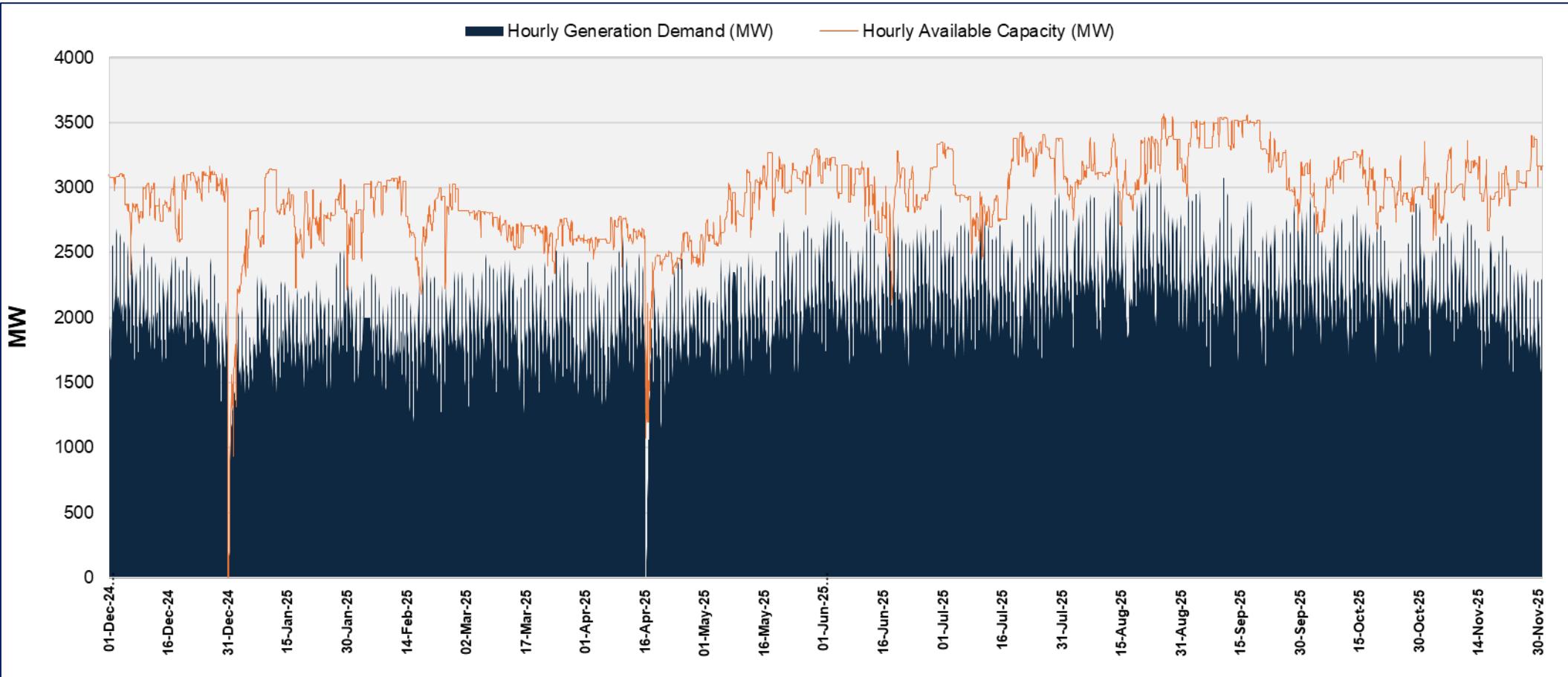


*Refer to Glossary of Terms on page 26 for a list of definitions and formulas.

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).

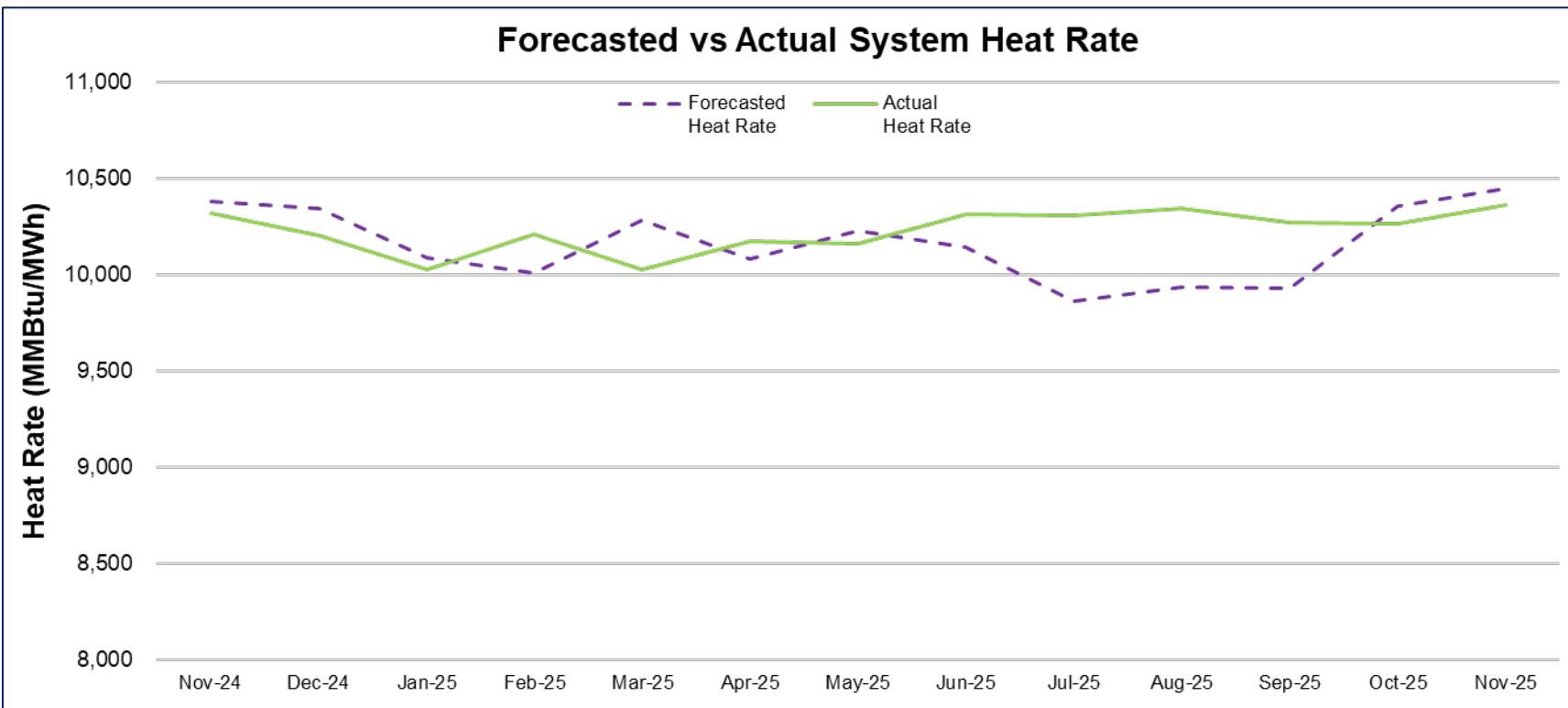
Target:  A bigger gap between availability and generation demand means a better chance of recovery in emergency events due to adequate reserves.



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.

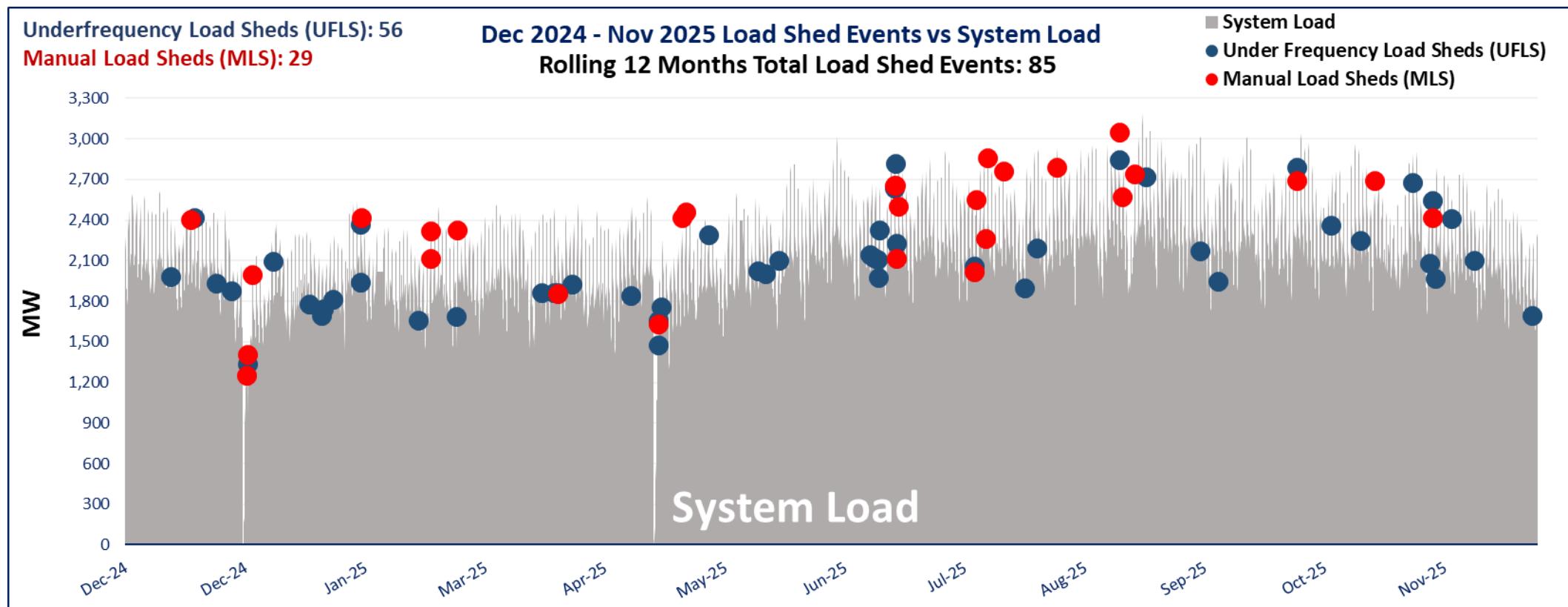
Target:  Lower heat rates represent higher efficiency.



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 Genera PR, and Independent Power Producers (IPPs).



MTD (November 1, 2025 – November 30, 2025)	Total Events	Average Customers Affected	Average Duration (min)
Generation Shortfall Events	1	111,686	132
Unit Performance Load Shed Events	6	119,522	22

Rolling 12 Months (December 1, 2024 – November 30, 2025)	Total Events	Average Customers Affected	Average Duration (min)
Generation Shortfall Events	29	76,768	161
Unit Performance Load Shed Events	56	159,237	23

*Refer to Glossary of Terms on page 26 for a list of definitions and formulas.

Operations

Plant/Units-Level Performance



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.

		Available Capacity (MW) and Availability Rate (AR)		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
		Av Cap (MW)	AR (%)	Av Cap (MW)	AR (%)	Av Cap (MW)	AR (%)	Av Cap (MW)	AR (%)	Av Cap (MW)	AR (%)	Av Cap (MW)	AR (%)	Av Cap (MW)	AR (%)
AES	Nameplate Capacity: 508 MW	510	88%	448	58%	325	98%	391	77%	453	90%	456	81%	409	436
EcoEléctrica	Nameplate Capacity: 566 MW	566	98%	557	96%	542	94%	531	100%	566	99%	566	100%	566	100%
Aguirre	Nameplate Capacity: 900 MW	900	6%	52	11%	99	15%	131	0%	0	0%	0	8%	71	271
Costa Sur	Nameplate Capacity: 820 MW	820	68%	558	68%	555	67%	550	43%	351	41%	334	76%	625	548
Palo Seco	Nameplate Capacity: 432 MW	432	44%	189	40%	216	41%	176	34%	149	31%	135	39%	167	117
San Juan	Nameplate Capacity: 640 MW	640	29%	187	32%	320	44%	204	46%	283	45%	295	52%	290	331
Total Baseloads	Nameplate Capacity: 3866 MW	3970	52%	1992	48%	1985	52%	1868	48%	1996	44%	1859	55%	1709	56%

*Refer to Glossary of Terms on page 26 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 (gross) representing an average over the month.

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

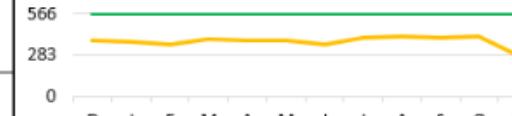
Available Capacity (MW) and Availability Rate (AR)		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
Av Cap (MW)	AR (%)												
Aguirre Combined Cycle	592	245	112	148	129	147	243	297	278	235	248	218	220
Nameplate Capacity: 592 MW		41%	19%	25%	22%	25%	41%	50%	47%	40%	42%	37%	37%
Cambalache	170	138	159	154	155	151	97	78	76	77	77	76	76
Nameplate Capacity: 165 MW		84%	96%	93%	94%	91%	59%	47%	46%	47%	47%	46%	46%
Mayagüez	220	124	138	104	94	95	95	71	46	45	47	46	47
Nameplate Capacity: 220 MW		56%	63%	47%	43%	43%	43%	32%	21%	21%	21%	21%	21%
Palo Seco Mobile-Packs	82	78	50	66	79	60	33	77	78	77	78	79	74
Nameplate Capacity: 81 MW		96%	62%	81%	97%	74%	41%	95%	96%	96%	96%	97%	92%
Palo Seco TMs	90	74	90	81	86	78	89	68	62	57	47	43	43
Nameplate Capacity: 90 MW		49%	100%	90%	95%	87%	99%	76%	69%	63%	52%	48%	48%
San Juan TMs	250	199	167	183	185	182	177	168	143	174	178	131	190
Nameplate Capacity: 250 MW		80%	67%	73%	74%	73%	71%	67%	57%	70%	71%	52%	76%
Frame 5's Peakers	150	109	116	112	106	90	79	81	84	79	81	81	76
Nameplate Capacity: 147 MW		74%	79%	76%	72%	61%	54%	55%	57%	54%	55%	55%	52%
Total Peakers	1550	966	833	846	834	803	815	839	768	745	756	674	727
Nameplate Capacity: 1545 MW		63%	54%	55%	54%	52%	53%	54%	50%	48%	49%	44%	47%

*Refer to Glossary of Terms on page 26 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.

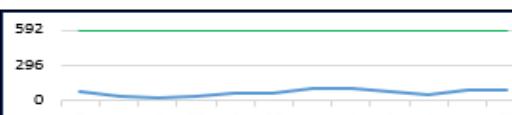
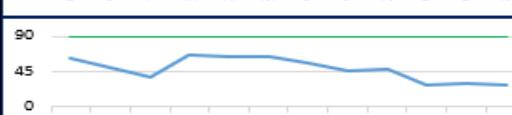
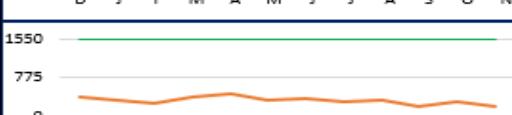
		Average Generation (MW) and Capacity Factor (CF)		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
		Gen (MW)	CF (%)	444	301	309	495	383	446	442	400	432	443	229	410
AES	508		CF (%)	87%	59%	61%	97%	75%	88%	87%	79%	85%	87%	45%	81%
	Nameplate Capacity: 508 MW	0		D J F M A M J J A S O N											
EcoEléctrica	566		Gen (MW)	384	371	354	390	387	385	351	401	411	399	407	278
	Nameplate Capacity: 566 MW	0	CF (%)	68%	66%	62%	69%	68%	68%	62%	71%	73%	71%	72%	49%
Aguirre	900		Gen (MW)	43	84	120	0	0	0	54	197	199	252	215	227
	Nameplate Capacity: 900 MW	0	CF (%)	5%	9%	13%	0%	0%	0%	6%	22%	22%	28%	24%	25%
Costa Sur	820		Gen (MW)	452	431	456	275	265	507	516	480	557	552	559	516
	Nameplate Capacity: 820 MW	0	CF (%)	55%	53%	56%	34%	32%	62%	63%	59%	68%	67%	68%	63%
Palo Seco	432		Gen (MW)	145	153	153	136	118	146	101	117	119	111	207	160
	Nameplate Capacity: 432 MW	0	CF (%)	34%	36%	35%	31%	27%	34%	23%	27%	28%	26%	48%	37%
San Juan	640		Gen (MW)	164	175	223	244	244	271	384	332	299	325	354	312
	Nameplate Capacity: 640 MW	0	CF (%)	26%	27%	35%	38%	38%	42%	60%	52%	47%	51%	55%	49%
Total Baseloads	3970		Gen (MW)	1632	1515	1615	1540	1397	1755	1848	1928	2018	2082	1971	1903
	Nameplate Capacity: 3866 MW	0	CF (%)	42%	39%	42%	40%	36%	45%	48%	50%	52%	54%	51%	49%

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Generation and Capacity Factor – Peaker 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.

	Average Generation (MW) and Capacity Factor (CF)	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	
			Gen (MW)	CF (%)										
Aguirre Combined Cycle	 Nameplate Capacity: 592 MW	592	76	40	29	39	64	65	109	101	82	50	88	86
		296	13%	7%	5%	7%	11%	11%	18%	17%	14%	9%	15%	15%
Cambalache	 Nameplate Capacity: 165 MW	170	35	43	43	63	71	27	29	29	32	17	36	17
		85	21%	26%	26%	38%	43%	17%	18%	18%	20%	10%	22%	10%
Mayagüez	 Nameplate Capacity: 220 MW	220	50	40	27	30	28	6	11	7	7	2	8	16
		110	23%	18%	12%	14%	13%	3%	5%	3%	3%	1%	4%	7%
Palo Seco Mobile-Packs	 Nameplate Capacity: 81 MW	82	9	10	12	33	51	12	15	16	16	6	20	18
		41	11%	12%	14%	41%	63%	14%	19%	19%	20%	7%	25%	22%
Palo Seco TMs	 Nameplate Capacity: 90 MW	90	62	50	38	67	64	64	56	46	47	28	29	28
		45	69%	55%	43%	74%	71%	71%	62%	51%	53%	31%	33%	32%
San Juan TMs	 Nameplate Capacity: 250 MW	250	162	130	102	143	157	129	135	95	126	102	76	8
		125	65%	52%	41%	57%	63%	52%	54%	38%	50%	41%	31%	3%
Frame 5's Peakers	 Nameplate Capacity: 147 MW	150	11	18	14	31	36	13	20	20	20	10	26	21
		75	8%	12%	9%	21%	25%	9%	14%	14%	14%	7%	18%	14%
Total Peakers	 Nameplate Capacity: 1545 MW	1550	405	330	265	406	471	317	376	315	331	216	285	195
		775	26%	21%	17%	26%	30%	21%	24%	20%	21%	14%	18%	13%

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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 (kWh).

Target: ▼ Lower heat rates represent higher efficiency.

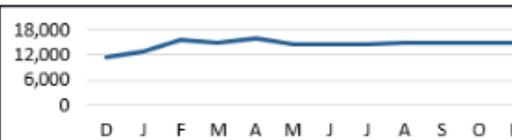
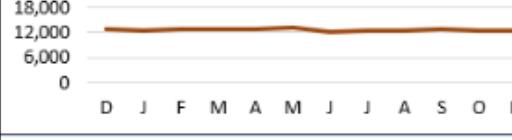
		Heat Rate (MMBtu/kWh)	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
AES		8,608	8,121	9,468	9,511	9,307	9,464	9,484	9,632	9,630	9,610	9,524	9,480	
EcoElectrica		6,322	6,897	7,895	7,651	7,643	7,669	7,654	7,552	7,532	7,572	7,553	7,730	
Aguirre		0	10,959	11,314	-	-	-	11,488	10,718	11,107	10,762	10,813	10,652	
Costa Sur		8,819	10,376	10,951	10,827	10,892	10,489	10,449	10,793	10,762	10,792	10,701	10,971	
Palo Seco		6,846	9,301	9,321	9,376	9,534	9,437	9,718	9,800	9,998	10,284	10,201	10,080	
San Juan		7,511	7,813	9,108	8,859	8,799	9,275	9,585	9,501	9,410	9,515	9,299	9,826	
Total Baseloads		7,634	8,713	9,604	9,158	9,076	9,336	9,503	9,588	9,649	9,692	9,621	9,871	

*Refer to Glossary of Terms on page 26 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.

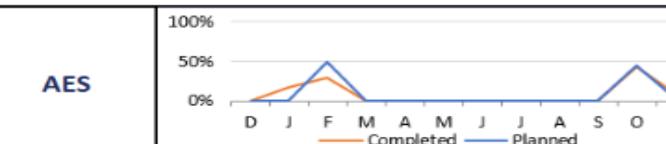
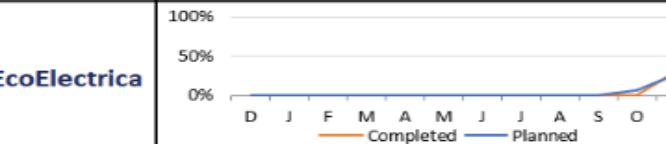
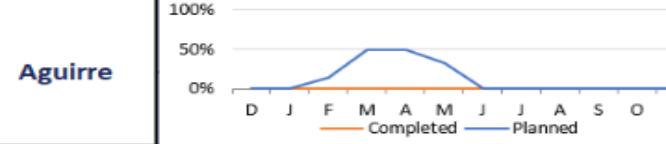
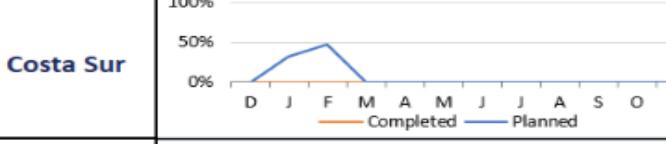
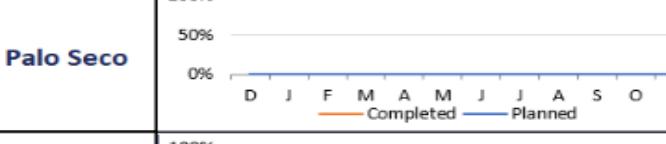
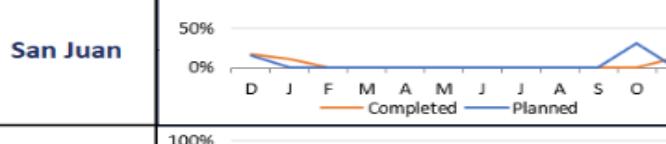
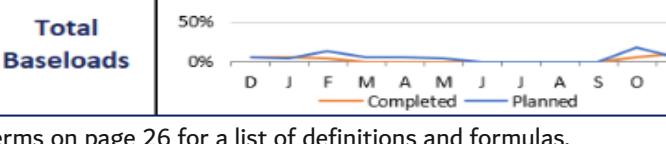
		Heat Rate (MMBtu/kWh)	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
Aguirre Combined Cycle		11,487	12,784	15,439	14,895	16,110	14,707	14,563	14,524	14,871	14,938	15,002	14,752	
Cambalache		12,818	12,506	12,855	12,703	12,959	13,081	12,200	12,404	12,397	12,730	12,327	12,378	
Mayaguez		10,422	13,163	10,204	10,233	11,124	10,801	11,040	11,059	10,863	10,623	10,980	10,763	
Palo Seco Mobile Packs		9,591	9,522	9,871	9,982	10,003	10,388	10,042	10,078	10,276	10,365	10,153	10,130	
Palo Seco & San Juan TMs		10,285	10,663	10,222	10,398	11,039	11,199	10,901	15,491	9,855	11,139	10,804	10,764	
Frame 5's Peakers		11,754	13,954	15,178	14,751	16,023	15,518	14,857	14,824	15,107	15,767	16,457	16,468	
Total Peakers		10,779	11,608	11,470	11,478	12,279	12,225	12,244	14,483	11,699	12,372	12,797	13,223	

*Refer to Glossary of Terms on page 26 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 per unit. This scoreboard compares the scheduled outage hours (shown in color blue) with the actual duration of the outage (shown in color orange).

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

		Planned Outage Hours		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
		Planned	Completed	Planned	Completed	Planned	Completed	Planned	Completed	Planned	Completed	Planned	Completed	Planned	Completed
	AES			0	264	399	0	0	0	0	0	0	0	647	127
	EcoElectrica			0	0	0	0	0	0	0	0	0	0	0	645
	Aguirre			0	0	0	0	0	0	0	0	0	0	0	0
	Costa Sur			0	0	0	0	0	0	0	0	0	0	0	0
	Palo Seco			0	0	0	0	0	0	0	0	0	0	0	0
	San Juan			786	523	0	0	0	0	0	0	0	0	0	567
	Total Baseloads			696	0	0	0	0	0	0	0	0	0	2232	624

*Refer to Glossary of Terms on page 26 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: ▼ Less forced outage hours and a smaller outage rate represents more available capacity in the system to meet demand.

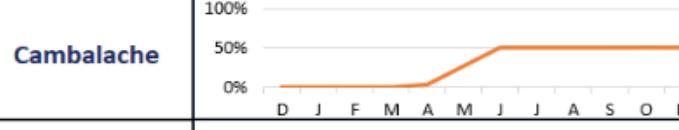
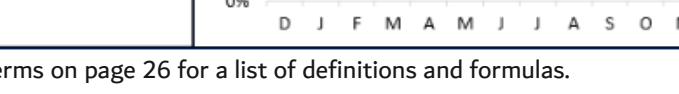
		Forced Outage Hours and Outage Rate		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
				%	0%	23%	0%	0%	18%	2%	1%	9%	3%	0%	8%
AES	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
EcoElectrica	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
Aguirre	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
Costa Sur	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
Palo Seco	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
San Juan	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
Total Baseload	100%														
		D	J	F	M	A	M	J	J	A	S	O	N		
		%	42%	44%	37%	39%	47%	37%	31%	28%	29%	24%	25%	21%	
		Hrs	4956	5219	4014	4787	5691	4652	3758	3499	3641	2946	2996	2629	

*Refer to Glossary of Terms on page 26 for a list of definitions and formulas.

Forced Outage Hours and Rate – Peaker 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: ▼ Less forced outage hours and a smaller outage rate represents more available capacity in the system to meet demand.

		Forced Outage Hours and Outage Rate		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	
		%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	
Aguirre Combined Cycle		46%	3446	77%	5756	70%	4737	74%	5088	49%	3654	40%	2912	44%	3289	
Cambalache		0%	6	1%	9	1%	12	1%	3	27%	50%	50%	50%	51%	51%	
Mayaguez		3%	101	4%	116	18%	476	27%	26%	27%	42%	51%	52%	50%	51%	50%
Palo Seco Mobile-Packs		2%	35	33%	735	16%	326	0%	21%	55%	2%	0%	2%	1%	0%	6%
Palo Seco TMs		9%	273	3%	77	13%	336	7%	15%	4%	25%	33%	36%	48%	50%	51%
San Juan TMs		19%	1437	33%	2468	27%	1820	25%	27%	32%	33%	41%	29%	28%	44%	22%
Frame 5's Peakers		6%	331	10%	511	15%	709	18%	30%	40%	37%	35%	37%	30%	31%	34%
Total Peakers		19%	5629	33%	9672	31%	8416	31%	36%	36%	34%	38%	38%	37%	43%	38%

*Refer to Glossary of Terms on page 26 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 than thermal resources due to the solar and wind cycles.

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

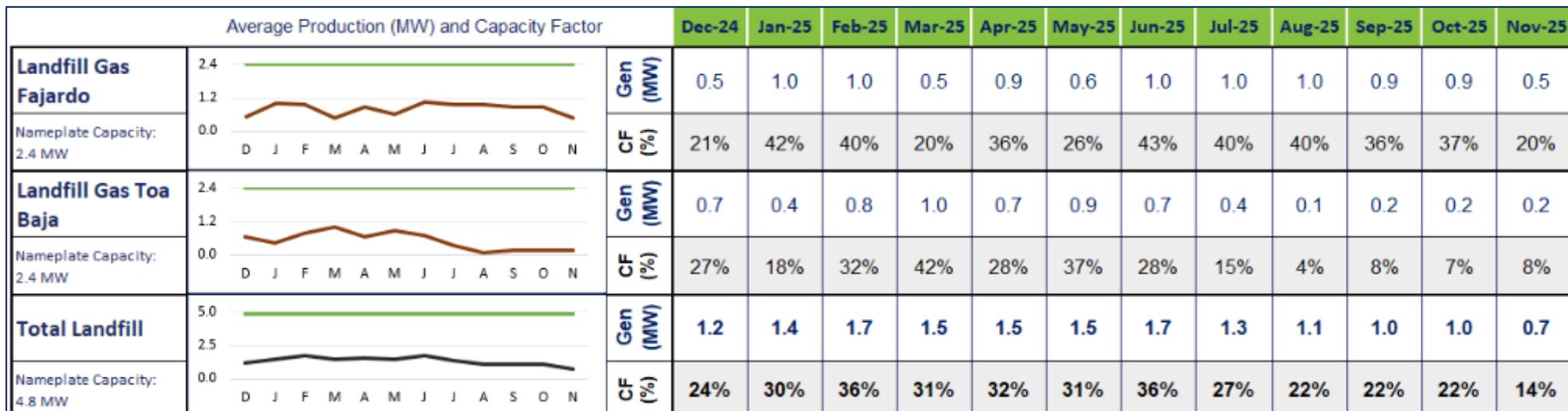
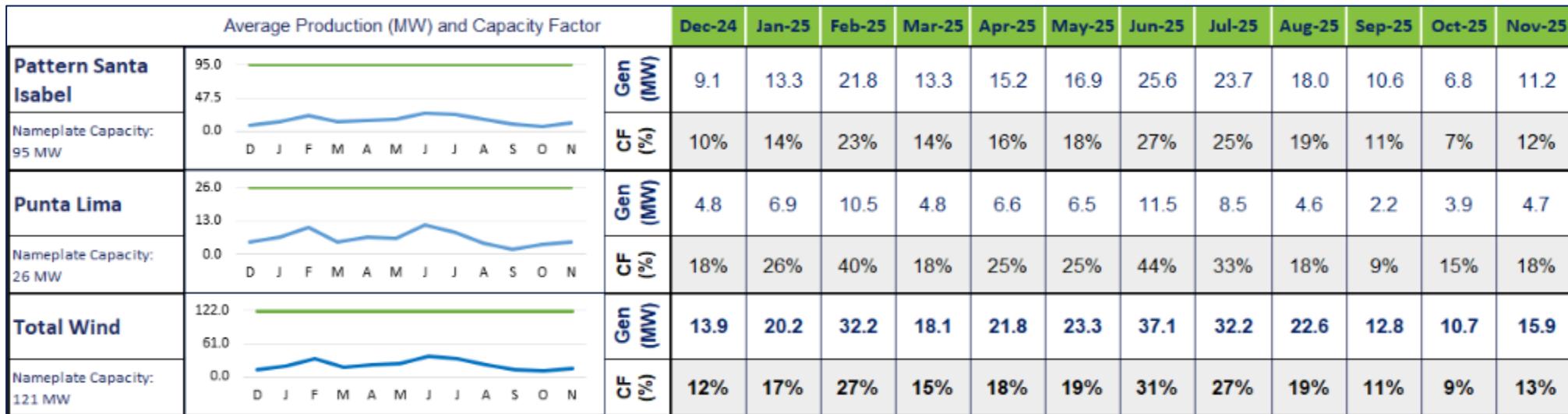
		Average Production (MW) and Capacity Factor		Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
		Gen (MW)	CF (%)	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
AES Ilumina	Nameplate Capacity: 20 MW	20	15%	3.0	3.4	3.7	3.9	3.7	3.7	3.6	3.8	3.6	3.4	2.9	3.2
		0	17%												
Windmar Cantera Martínó	Nameplate Capacity: 2.1 MW	2.2	9%	0.2	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.4	0.5	0.5
		0	18%												
San Fermín	Nameplate Capacity: 20 MW	20	5%	1.1	1.2	1.0	1.1	1.1	1.0	1.2	1.2	1.1	1.0	0.9	1.1
		0	6%												
Horizon Energy	Nameplate Capacity: 10 MW	10	22%	2.2	2.5	2.7	2.8	2.4	2.8	2.7	2.8	2.8	2.7	2.3	2.6
		0	25%												
Oriana Energy	Nameplate Capacity: 45 MW	45	18%	8.2	8.7	9.9	10.9	10.8	11.1	10.2	11.6	10.4	9.3	8.7	9.5
		0	19%												
Windmar Coto Laurel	Nameplate Capacity: 10 MW	10	16%	1.6	1.8	2.0	2.1	1.9	1.8	1.9	1.9	1.9	1.6	1.4	1.5
		0	18%												
Fonroche Humacao	Nameplate Capacity: 40 MW	40	16%	6.2	7.1	8.4	9.5	9.0	9.2	10.0	10.0	9.8	9.2	7.8	8.4
		0	18%												
Total Solar	Nameplate Capacity: 147.1 MW	150	15%	22.6	25.1	28.3	30.9	29.4	30.0	30.1	31.8	30.2	27.5	24.5	26.8
		0	17%												

*Refer to Glossary of Terms on page 26 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 than thermal resources due to the solar and wind cycles.

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

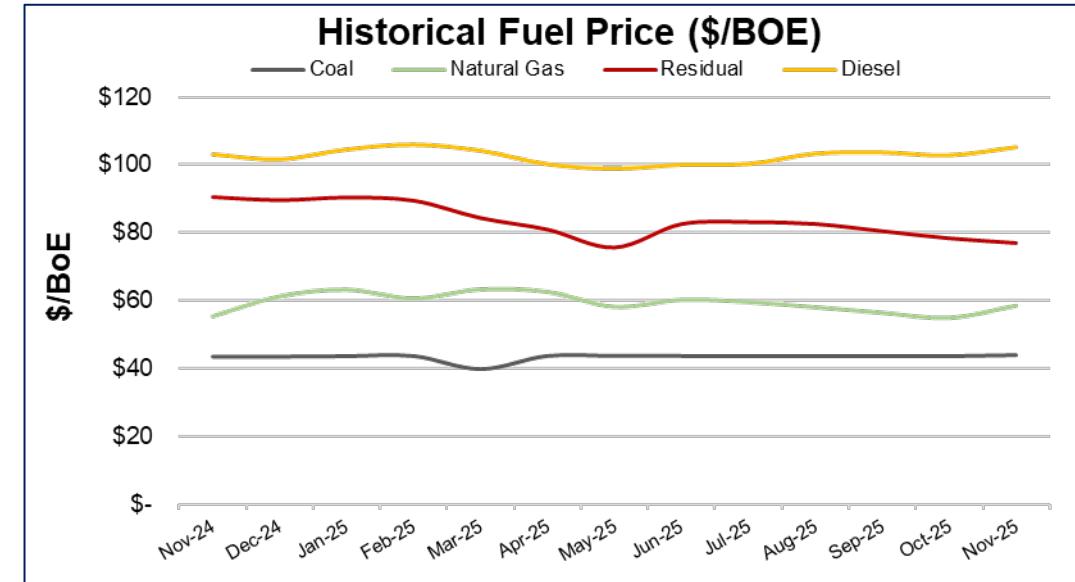
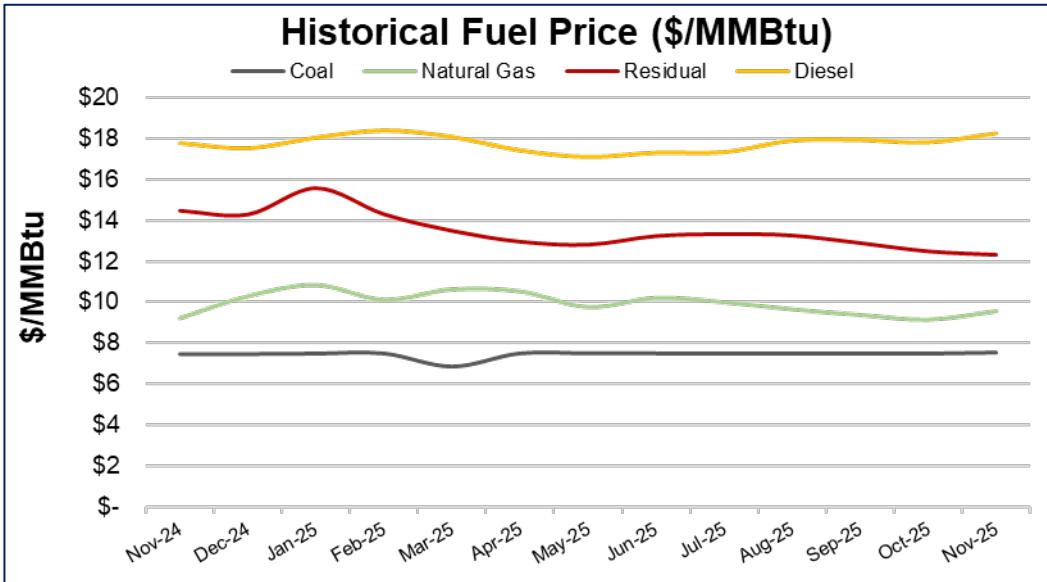


Economics



Fuel Prices

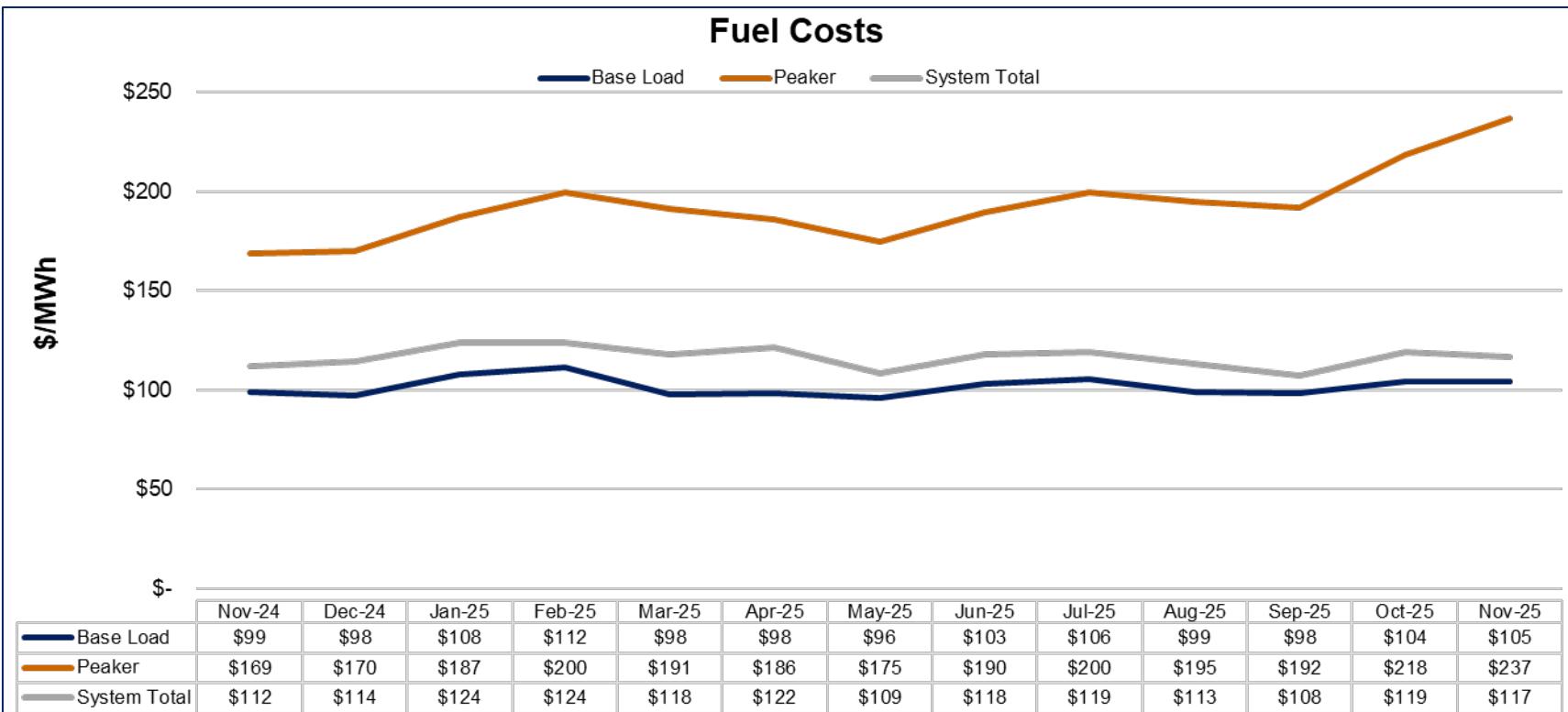
Fuel Price shows the prices paid for fuel used by Genera PR and private generators, both in terms of MMBtus and Barrel of Oil Equivalent (BOE). The Fuel Price is divided by Fuel Type to better illustrate the contribution to the total Fuel Price for the month.



	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	June-25	July-25	Aug-25	Sep-25	Oct-25	Nov-25
\$/MMBtu													
Diesel	17.78	17.53	18.06	18.41	18.09	17.42	17.10	17.31	17.34	17.91	17.94	17.82	18.27
Residual	14.49	14.30	15.60	14.32	13.50	12.97	12.82	13.25	13.35	13.28	12.90	12.50	12.33
Natural Gas	9.25	10.31	10.86	10.14	10.65	10.54	9.79	10.23	10.02	9.68	9.41	9.17	9.59
Coal	7.49	7.49	7.52	7.52	6.87	7.53	7.53	7.53	7.51	7.51	7.52	7.57	
\$/BoE													
Diesel	103.26	101.76	104.72	106.14	104.34	100.32	99.98	100.16	100.38	103.47	103.83	102.97	105.40
Residual	90.55	89.65	90.45	89.50	84.43	81.06	75.80	82.65	83.24	82.69	80.60	78.51	77.13
Natural Gas	55.49	61.29	63.23	60.68	63.34	62.6	58.25	60.25	59.64	58.13	56.51	55.01	58.57
Coal	43.45	43.45	43.60	43.63	39.83	43.67	43.66	43.65	43.56	43.57	43.59	43.6	43.89

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.



Appendix



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



**La gente primero.
La seguridad siempre.**

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