



# Monthly Generation Performance Report

March 2024

# 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.



# Table of Contents

## Executive Summary

## Operations

- System Level Performance
  - System Reserve Status
  - System Heat Rate
  - System Availability
- Plant/Unit Level Performance
  - Available Capacity
  - Heat Rate
  - Generation and Capacity Factor
  - Planned Outage Hours
  - Maintenance Outage Hours
  - Forced Outage Hours
  - Renewables Capacity Factor

## Economics

- Fuel Prices
- Fuel Production Costs

## About This Report

- Glossary of Terms
- Plant and Unit List



# Executive Summary – March Performance

## Overview

The maximum peak demand for March 2024 is approximately 2800 MW

San Juan Steam 6 is out with no ETR. San Juan 7 and Aguirre 2 are both expected to come back March 4. San Juan 9 ETR is March 8. Palo Seco 3 is still expected to come back June 6. Palo Seco 4 ETR is still February 28 of 2025. Costa Sur 6 ETR is still March 20.

## Major Events

In March, the electric system experienced 1 load shed event due to generation shortfall, and 10 generation events that resulted in load shed to prevent a frequency decay.

## System Reserves

In March, the hourly reserve levels averaged 777 MW, with 313 hours during the month having less than 750 MW in reserves (equal to 42% of the time.)

Without the additional 350 MW of generation from the FEMA TM units, the electric system would have potentially experienced 9 additional load shed events at peak hours due to generation shortfall this month.

The forecast for April 2024 shows lower reserve levels to the same month last year (April 2023), with 451 MW average reserves forecasted versus 907 MW seen for the same month last year.

The System Availability for the month of March was 48%.

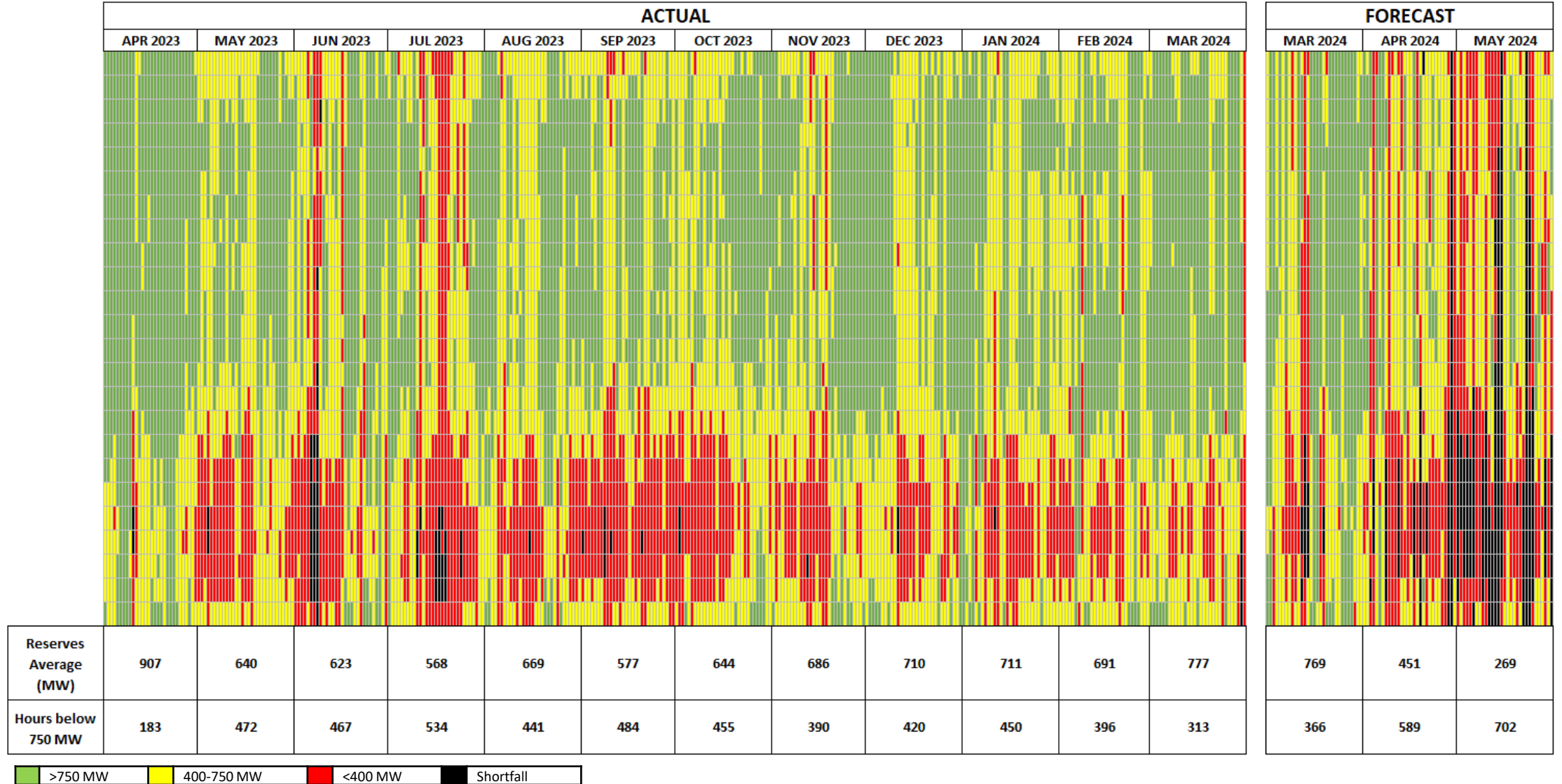
- Genera – 38%
- AES – 91%
- EcoEléctrica – 100%



# 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

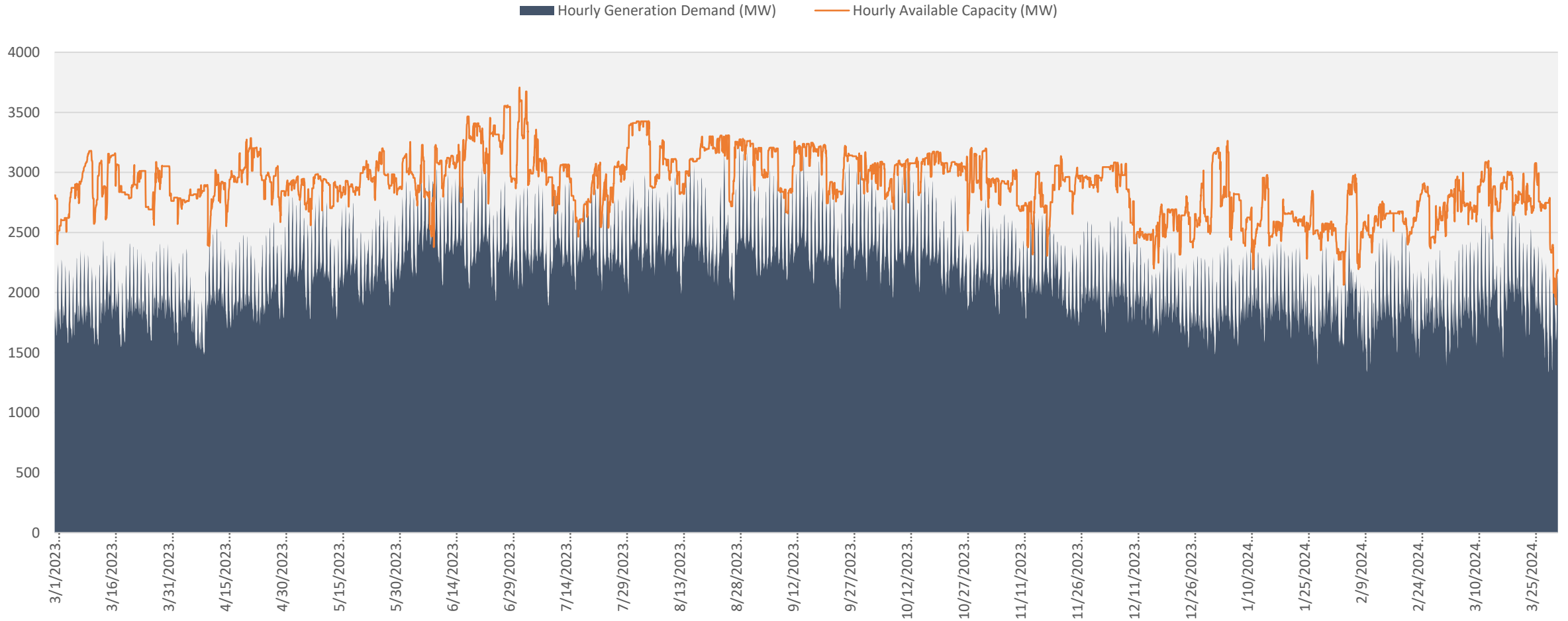


\*Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

# 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.



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

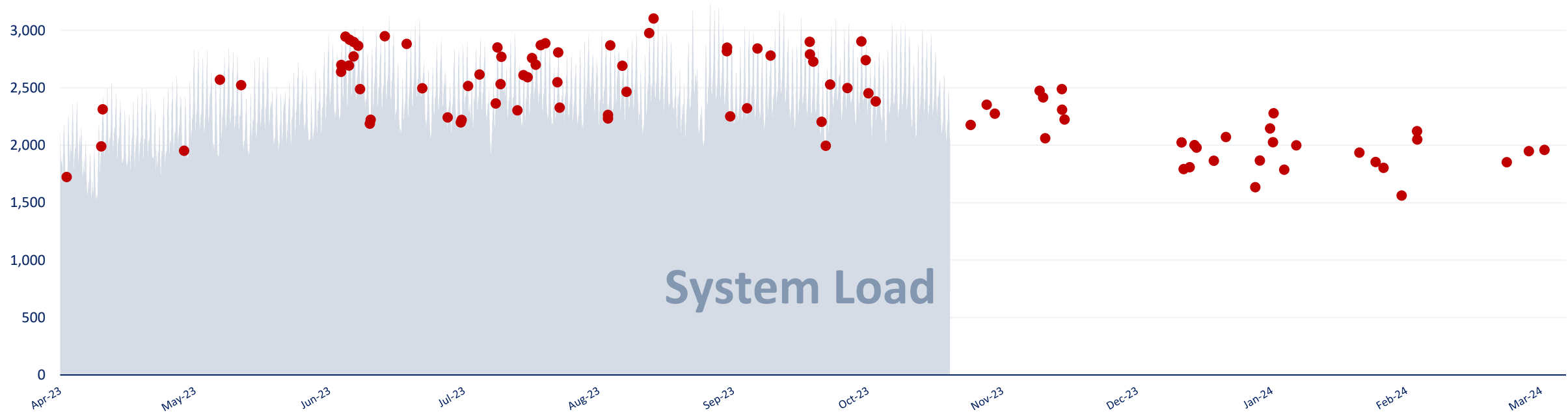
# Load Shed Events

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: 110



| MTD<br>(March 1, 2024 – March 31, 2024)  | Total Events | Average Customers Affected | Average Duration (min) | Rolling 12 Months<br>(April 1, 2023 – March 31, 2024) | Total Events | Average Customers Affected | Average Duration (min) |
|--|--------------|----------------------------|------------------------|---|--------------|----------------------------|------------------------|
| <b>Generation Shortfall Events</b>       | 1            | 304,321                    | 287                    | <b>Generation Shortfall Events</b>                    | 28           | 91,875                     | 147                    |
| <b>Unit Performance Load Shed Events</b> | 9            | 102,163                    | 11                     | <b>Unit Performance Load Shed Events</b>              | 82           | 91,278                     | 15                     |

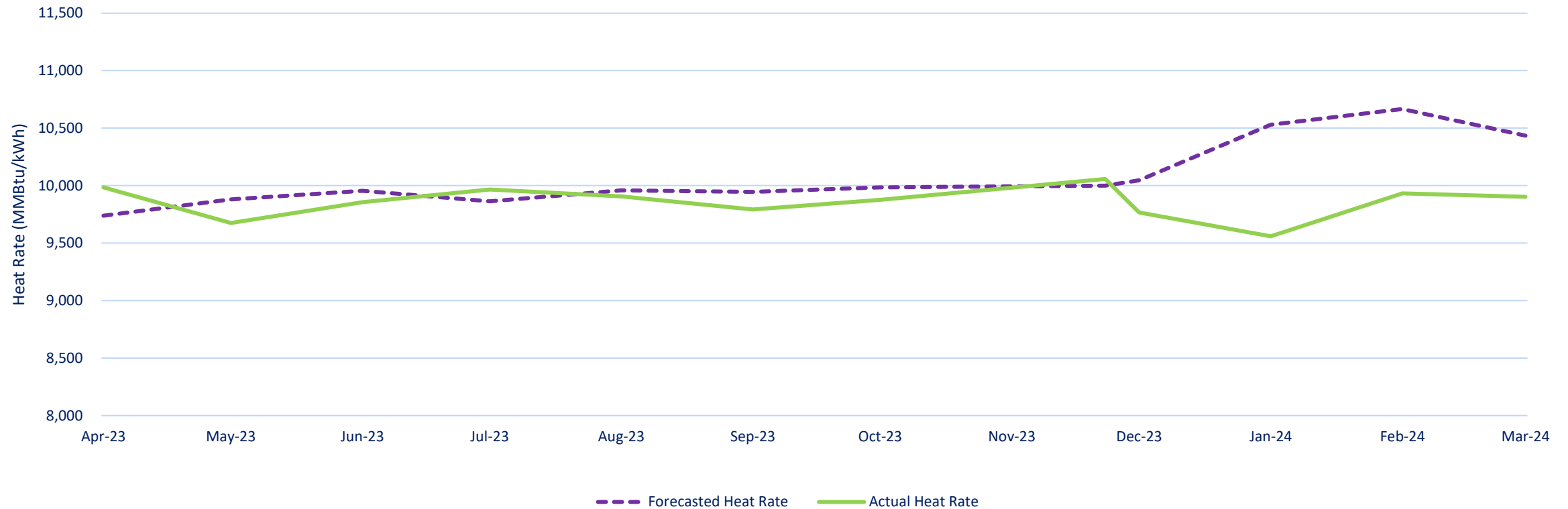
\*Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

# 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



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



# 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) |  | Apr-23  | May-23  | Jun-23  | Jul-23  | Aug-23  | Sep-23  | Oct-23  | Nov-23  | Dec-23  | Jan-24  | Feb-24  | Mar-24  |
|--|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>AES</b><br>Nameplate Cap: 508                   |  | MW 323  | MW 424  | MW 437  | MW 290  | MW 449  | MW 448  | MW 243  | MW 249  | MW 263  | MW 370  | MW 330  | MW 463  |
|  |  | AR 64%  | AR 83%  | AR 86%  | AR 57%  | AR 88%  | AR 88%  | AR 48%  | AR 49%  | AR 52%  | AR 73%  | AR 65%  | AR 91%  |
| <b>EcoElectrica</b><br>Nameplate Cap: 550          |  | MW 385  | MW 550  | MW 545  | MW 552  | MW 531  | MW 549  | MW 550  | MW 531  | MW 550  | MW 550  | MW 547  | MW 550  |
|  |  | AR 70%  | AR 100% | AR 99%  | AR 100% | AR 97%  | AR 100% | AR 100% | AR 97%  | AR 100% | AR 100% | AR 99%  | AR 100% |
| <b>Genera Aguirre</b><br>Nameplate Cap: 900        |  | MW 297  | MW 91   | MW 310  | MW 277  | MW 344  | MW 316  | MW 373  | MW 257  | MW 152  | MW 210  | MW 368  | MW 341  |
|  |  | AR 33%  | AR 10%  | AR 34%  | AR 31%  | AR 38%  | AR 35%  | AR 41%  | AR 29%  | AR 17%  | AR 23%  | AR 41%  | AR 38%  |
| <b>Genera Costa Sur</b><br>Nameplate Cap: 820      |  | MW 534  | MW 437  | MW 480  | MW 224  | MW 347  | MW 313  | MW 333  | MW 363  | MW 366  | MW 48   | MW 3    | MW 105  |
|  |  | AR 65%  | AR 53%  | AR 59%  | AR 27%  | AR 42%  | AR 38%  | AR 41%  | AR 44%  | AR 45%  | AR 6%   | AR 0%   | AR 13%  |
| <b>Genera Palo Seco</b><br>Nameplate Cap: 602      |  | MW 357  | MW 337  | MW 235  | MW 291  | MW 153  | MW 168  | MW 171  | MW 121  | MW 0    | MW 0    | MW 0    | MW 0    |
|  |  | AR 59%  | AR 56%  | AR 39%  | AR 48%  | AR 25%  | AR 28%  | AR 28%  | AR 20%  | AR 0%   | AR 0%   | AR 0%   | AR 0%   |
| <b>Genera San Juan</b><br>Nameplate Cap: 840       |  | MW 572  | MW 570  | MW 641  | MW 700  | MW 661  | MW 690  | MW 679  | MW 510  | MW 652  | MW 723  | MW 478  | MW 585  |
|  |  | AR 68%  | AR 68%  | AR 76%  | AR 83%  | AR 79%  | AR 82%  | AR 81%  | AR 61%  | AR 78%  | AR 86%  | AR 57%  | AR 70%  |
| <b>Total Baseload</b><br>Nameplate Cap: 4220       |  | MW 2469 | MW 2410 | MW 2648 | MW 2484 | MW 2631 | MW 2626 | MW 2697 | MW 2384 | MW 2329 | MW 2249 | MW 2070 | MW 2043 |
|  |  | AR 58%  | AR 57%  | AR 63%  | AR 57%  | AR 60%  | AR 60%  | AR 59%  | AR 52%  | AR 51%  | AR 49%  | AR 45%  | AR 48%  |

\*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.

| Available Capacity (MW) and Availability Rate (AR)               |    | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|--|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Genera Aguirre Combined Cycle</b><br>Nameplate Cap: 592       |    | MW 139 | 190    | 193    | 191    | 199    | 148    | 172    | 191    | 185    | 150    | 138    | 127    |
|  | AR | 23%    | 32%    | 33%    | 32%    | 34%    | 25%    | 29%    | 32%    | 31%    | 25%    | 23%    | 21%    |
| <b>Genera Cambalache</b><br>Nameplate Cap: 248                   |    | MW 114 | 155    | 146    | 152    | 142    | 144    | 74     | 76     | 104    | 152    | 156    | 153    |
|  | AR | 46%    | 63%    | 59%    | 61%    | 58%    | 58%    | 30%    | 31%    | 42%    | 62%    | 63%    | 62%    |
| <b>Genera Mayaguez</b><br>Nameplate Cap: 220                     |    | MW 40  | 37     | 35     | 28     | 29     | 20     | 32     | 19     | 26     | 24     | 33     | 50     |
|  | AR | 18%    | 17%    | 16%    | 13%    | 13%    | 9%     | 14%    | 9%     | 12%    | 11%    | 15%    | 23%    |
| <b>Genera Palo Seco (Inc. Mobile-Pack)</b><br>Nameplate Cap: 207 |    | MW 179 | 165    | 161    | 176    | 192    | 178    | 188    | 186    | 182    | 183    | 182    | 176    |
|  | AR | 86%    | 80%    | 78%    | 85%    | 93%    | 86%    | 91%    | 90%    | 88%    | 89%    | 88%    | 85%    |
| <b>Palo Seco TM</b><br>Nameplate Cap: 90                         |    | MW 0   | 0      | 0      | 149    | 145    | 142    | 148    | 151    | 150    | 147    | 143    | 96     |
|  | AR | 0%     | 0%     | 0%     | 99%    | 97%    | 95%    | 99%    | 100%   | 100%   | 98%    | 95%    | 107%   |
| <b>San Juan TM</b><br>Nameplate Cap: 250                         |    | MW 0   | 0      | 0      | 0      | 0      | 0      | 199    | 202    | 196    | 201    | 200    | 205    |
|  | AR | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 100%   | 101%   | 98%    | 101%   | 100%   | 82%    |
| <b>Other Peakers</b><br>Nameplate Cap: 264                       |    | MW 59  | 57     | 56     | 71     | 69     | 69     | 59     | 62     | 61     | 71     | 68     | 71     |
|  | AR | 22%    | 22%    | 21%    | 27%    | 26%    | 26%    | 22%    | 24%    | 23%    | 27%    | 26%    | 27%    |
| <b>Total Peakers</b><br>Nameplate Cap: 1871                      |    | MW 531 | 604    | 591    | 618    | 631    | 560    | 524    | 535    | 557    | 581    | 577    | 879    |
|  | AR | 35%    | 39%    | 39%    | 40%    | 41%    | 37%    | 34%    | 35%    | 36%    | 38%    | 38%    | 47%    |

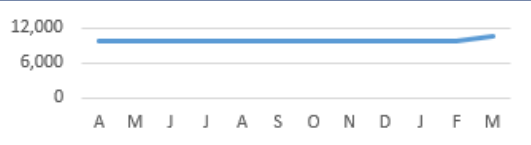





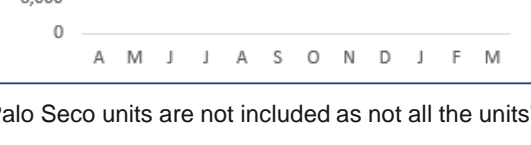


\*Refer to Glossary of Terms on page 22 for a list of definitions and formulas.

# 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)   |  | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|-------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>AES</b>              |    | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 9,800  | 10,620 |
| <b>EcoElectrica</b>     |    | 7,945  | 7,945  | 7,945  | 7,945  | 7,945  | 7,945  | 7,945  | 7,945  | 7,945  | 7,957  | 7,957  | 7,957  |
| <b>Genera Aguirre</b>   |    | 11,075 | 10,937 | 10,741 | 11,082 | 10,687 | 10,644 | 10,734 | 11,008 | 11,034 | 11,207 | 11,397 | 11,268 |
| <b>Genera Costa Sur</b> |    | 10,892 | 11,053 | 10,733 | 11,835 | 10,616 | 10,788 | 10,887 | 10,857 | 10,838 | 11,323 | 40,045 | 11,913 |
| <b>Genera Palo Seco</b> |   | 9,799  | 10,270 | 10,224 | 10,168 | 10,379 | 9,813  | 10,463 | 10,254 | -      | -      | -      | -      |
| <b>Genera San Juan</b>  |  | 8,419  | 8,059  | 8,248  | 8,458  | 8,476  | 8,477  | 8,574  | 9,317  | 8,956  | 8,973  | 9,432  | 8,714  |
| <b>Total Baseload</b>   |  | 9,548  | 9,356  | 9,336  | 9,343  | 9,278  | 9,215  | 9,365  | 9,477  | 9,267  | 8,968  | 9,381  | 9,510  |

- The FEMA Palo Seco units are not included as not all the units' consumption is included in the Genera Fuel Report

\*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)                      |  | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|--|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Genera Aguirre Combined Cycle</b>       |  | 14,562 | 14,945 | 14,766 | 14,365 | 14,969 | 14,444 | 14,811 | 14,969 | 14,921 | 14,671 | 14,989 | 13,867 |
| <b>Genera Cambalache</b>                   |  | 13,403 | 12,535 | 12,595 | 12,355 | 12,573 | 12,492 | 12,341 | 12,435 | 13,231 | 12,834 | 12,785 | 12,872 |
| <b>Genera Mayaguez</b>                     |  | 10,566 | 10,726 | 10,764 | 10,716 | 10,840 | 10,824 | 10,942 | 10,801 | 11,013 | 10,882 | 10,945 | 11,029 |
| <b>Genera Palo Seco (Inc. Mobile Pack)</b> |  | 10,896 | 11,320 | 11,517 | 11,324 | 11,454 | 11,572 | 15,072 | 15,981 | 14,925 | 15,146 | 16,487 | 15,205 |
| <b>Other Peakers</b>                       |  | 13,287 | 14,056 | 13,343 | 13,677 | 14,906 | 14,631 | 15,086 | 14,893 | 14,771 | 15,064 | 15,462 | 14,062 |
| <b>Total Peakers</b>                       |  | 12,634 | 13,005 | 12,819 | 12,501 | 12,697 | 12,578 | 13,731 | 13,962 | 13,195 | 12,755 | 12,951 | 12,710 |

\*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.

| Average Generation (MW) and Capacity Factor   |        | Apr-23  | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|---|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>AES</b><br>Nameplate Cap: 508              |        | MW 317  | 426    | 425    | 281    | 449    | 447    | 242    | 248    | 253    | 355    | 320    | 452    |
|   | CF 62% | 84%     | 84%    | 55%    | 88%    | 88%    | 48%    | 49%    | 50%    | 70%    | 63%    | 89%    |        |
| <b>EcoElectrica</b><br>Nameplate Cap: 550     |        | MW 326  | 421    | 430    | 449    | 426    | 434    | 435    | 403    | 410    | 412    | 405    | 398    |
|   | CF 59% | 77%     | 78%    | 82%    | 78%    | 79%    | 79%    | 73%    | 75%    | 75%    | 74%    | 72%    |        |
| <b>Genera Aguirre</b><br>Nameplate Cap: 900   |        | MW 233  | 74     | 245    | 231    | 258    | 249    | 289    | 190    | 156    | 134    | 284    | 243    |
|   | CF 26% | 8%      | 27%    | 26%    | 29%    | 28%    | 32%    | 21%    | 17%    | 15%    | 32%    | 27%    |        |
| <b>Genera Costa Sur</b><br>Nameplate Cap: 820 |        | MW 456  | 431    | 437    | 214    | 324    | 281    | 314    | 304    | 291    | 37     | 1      | 101    |
|   | CF 56% | 53%     | 53%    | 26%    | 39%    | 34%    | 38%    | 37%    | 35%    | 5%     | 0%     | 12%    |        |
| <b>Genera Palo Seco</b><br>Nameplate Cap: 602 |        | MW 231  | 295    | 207    | 259    | 130    | 141    | 147    | 105    | 0      | 0      | 0      | 0      |
|   | CF 38% | 49%     | 34%    | 43%    | 22%    | 23%    | 24%    | 18%    | 0%     | 0%     | 0%     | 0%     |        |
| <b>Genera San Juan</b><br>Nameplate Cap: 840  |        | MW 324  | 371    | 417    | 470    | 446    | 462    | 425    | 417    | 397    | 473    | 380    | 380    |
|   | CF 39% | 44%     | 50%    | 56%    | 53%    | 55%    | 51%    | 50%    | 47%    | 56%    | 45%    | 45%    |        |
| <b>Total Baseload</b><br>Nameplate Cap: 4220  |        | MW 1886 | 2019   | 2161   | 2053   | 2178   | 2161   | 2204   | 2024   | 1858   | 1763   | 1735   | 1573   |
|   | CF 45% | 48%     | 51%    | 47%    | 50%    | 49%    | 48%    | 44%    | 41%    | 39%    | 38%    | 37%    |        |

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

# Generation and Capacity Factor – Peaker Units

Generation indicates the average amount of energy each plant produced per month (MW). 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                      |    | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |     |
|--|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| <b>Genera Aguirre Combined Cycle</b><br>Nameplate Cap: 592       |    | MW     | 34     | 103    | 89     | 112    | 83     | 60     | 74     | 75     | 47     | 49     | 42     | 31  |
|  | CF | 6%     | 17%    | 15%    | 19%    | 14%    | 10%    | 13%    | 13%    | 8%     | 8%     | 7%     | 5%     |     |
| <b>Genera Cambalache</b><br>Nameplate Cap: 247.5                 |    | MW     | 19     | 44     | 44     | 83     | 69     | 84     | 32     | 30     | 18     | 31     | 35     | 24  |
|  | CF | 8%     | 18%    | 18%    | 33%    | 28%    | 34%    | 13%    | 12%    | 7%     | 13%    | 14%    | 10%    |     |
| <b>Genera Mayaguez</b><br>Nameplate Cap: 220                     |    | MW     | 26     | 55     | 56     | 88     | 64     | 44     | 32     | 23     | 50     | 77     | 72     | 56  |
|  | CF | 12%    | 25%    | 26%    | 40%    | 29%    | 20%    | 14%    | 10%    | 23%    | 35%    | 33%    | 25%    |     |
| <b>Genera Palo Seco (Inc. Mobile-Pack)</b><br>Nameplate Cap: 207 |    | MW     | 16     | 37     | 40     | 55     | 70     | 74     | 26     | 9      | 10     | 9      | 13     | 15  |
|  | CF | 7%     | 18%    | 19%    | 26%    | 34%    | 36%    | 13%    | 5%     | 5%     | 4%     | 6%     | 7%     |     |
| <b>Palo Seco TM</b><br>Nameplate Cap: 90                         |    | MW     | 0      | 0      | 0      | 149    | 146    | 146    | 150    | 154    | 154    | 151    | 143    | 96  |
|  | CF | 0%     | 0%     | 0%     | 99%    | 97%    | 98%    | 100%   | 103%   | 103%   | 101%   | 95%    | 106%   |     |
| <b>San Juan TM</b><br>Nameplate Cap: 250                         |    | MW     | 0      | 0      | 0      | 0      | 0      | 0      | 201    | 202    | 196    | 201    | 201    | 189 |
|  | CF | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 100%   | 101%   | 98%    | 101%   | 101%   | 76%    |     |
| <b>Other Peakers (Genera)</b><br>Nameplate Cap: 264              |    | MW     | 3      | 10     | 11     | 22     | 13     | 24     | 15     | 23     | 7      | 12     | 9      | 7   |
|  | CF | 1%     | 4%     | 4%     | 8%     | 5%     | 9%     | 6%     | 9%     | 3%     | 5%     | 3%     | 3%     |     |
| <b>Total Peakers</b><br>Nameplate Cap: 1871                      |    | MW     | 98     | 248    | 241    | 359    | 299    | 286    | 180    | 161    | 131    | 178    | 171    | 418 |
|  | CF | 6%     | 16%    | 16%    | 23%    | 20%    | 19%    | 12%    | 11%    | 9%     | 12%    | 11%    | 22%    |     |



\*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<br>(APR 2023 - MAR 2024) |   | Planned<br>Outage Hours | Completed<br>Outage Hours | Notes for In-Progress Planned Outages | Expected Return-to-<br>Service Date |
|---|---|-------------------------|---------------------------|---------------------------------------|-------------------------------------|
| AES   |    | 1080                    | 670                       |                                       |                                     |
| EcoElectrica                                  |    | 600                     | 424                       |                                       |                                     |
| Genera Aguirre                                |    | 2304                    | 0                         |                                       |                                     |
| Genera Costa Sur                              |    | 7152                    | 0                         |                                       |                                     |
| Genera Palo Seco                              |   | 7344                    | 456                       |                                       |                                     |
| Genera San Juan                               |  | 3312                    | 2273                      |                                       |                                     |
| <b>Total Baseload</b>                         |  | <b>21792</b>            | <b>4743</b>               |                                       |                                     |

\*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: ▼ Less maintenance hours represents more available capacity in the system to meet demand.

| Maintenance Outage Hours |  | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|--------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>AES</b>               |  | 0      | 0      | 0      | 0      | 0      | 0      | 398    | 288    | 264    | 0      | 0      | 0      |
| <b>EcoElectrica</b>      |  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| <b>Genera Aguirre</b>    |  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| <b>Genera Costa Sur</b>  |  | 0      | 0      | 35     | 0      | 0      | 0      | 10     | 0      | 0      | 0      | 0      | 0      |
| <b>Genera Palo Seco</b>  |  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 24     |
| <b>Genera San Juan</b>   |  | 37     | 0      | 0      | 0      | 0      | 0      | 37     | 136    | 551    | 34     | 48     | 105    |
| <b>Total Baseload</b>    |  | 37     | 0      | 35     | 11     | 29     | 0      | 717    | 707    | 954    | 118    | 101    | 129    |

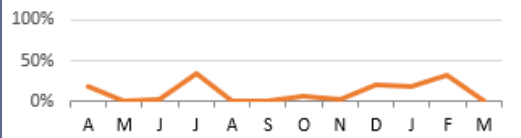
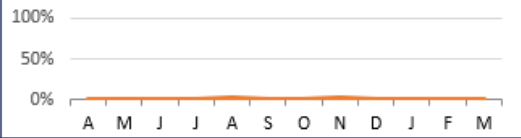
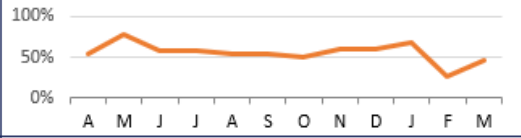
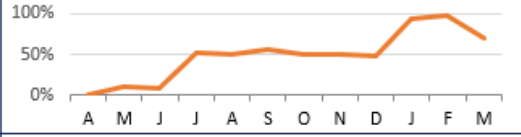
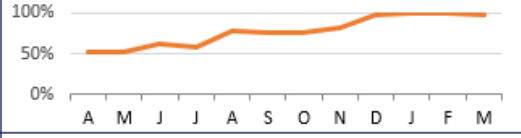
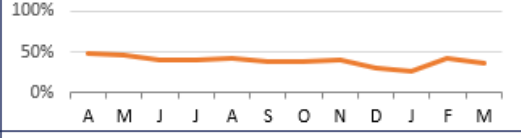
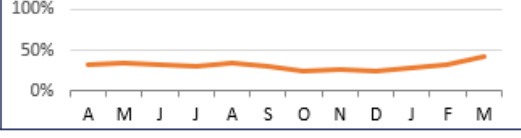
\*Refer to Glossary of Terms on page 22 for a list of definitions and formulas.



# 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: ▼ 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 |  | Apr-23   | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|-------------------------------------|--|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>AES</b>                          |    | Hrs 249  | 0      | 25     | 505    | 0      | 0      | 48     | 24     | 218    | 265    | 432    | 0      |
|                                     | %  | 17%      | 0%     | 2%     | 34%    | 0%     | 0%     | 5%     | 3%     | 19%    | 18%    | 31%    | 0%     |
| <b>EcoElectrica</b>                 |    | Hrs 5    | 0      | 13     | 0      | 72     | 4      | 0      | 35     | 0      | 0      | 7      | 0      |
|                                     | %  | 0%       | 0%     | 1%     | 0%     | 3%     | 0%     | 0%     | 2%     | 0%     | 0%     | 0%     | 0%     |
| <b>Genera Aguirre</b>               |    | Hrs 778  | 1166   | 823    | 855    | 800    | 770    | 744    | 862    | 898    | 1014   | 370    | 686    |
|                                     | %  | 54%      | 78%    | 57%    | 57%    | 54%    | 53%    | 50%    | 60%    | 60%    | 68%    | 27%    | 46%    |
| <b>Genera Costa Sur</b>             |    | Hrs 0    | 139    | 116    | 771    | 743    | 795    | 744    | 720    | 720    | 1390   | 1356   | 1021   |
|                                     | %  | 0%       | 9%     | 8%     | 52%    | 50%    | 55%    | 50%    | 50%    | 48%    | 93%    | 97%    | 69%    |
| <b>Genera Palo Seco</b>             |   | Hrs 1498 | 1525   | 1751   | 1704   | 2293   | 2151   | 2242   | 2278   | 2854   | 2854   | 2662   | 2806   |
|                                     | %  | 52%      | 51%    | 61%    | 57%    | 77%    | 76%    | 75%    | 82%    | 97%    | 100%   | 100%   | 97%    |
| <b>Genera San Juan</b>              |  | Hrs 2342 | 2421   | 2196   | 2328   | 2489   | 2180   | 2283   | 2193   | 1589   | 1520   | 2198   | 1964   |
|                                     | %  | 47%      | 45%    | 40%    | 39%    | 42%    | 38%    | 39%    | 39%    | 30%    | 26%    | 41%    | 35%    |
| <b>Total Baseload</b>               |  | Hrs 4872 | 5251   | 4923   | 6240   | 6784   | 6140   | 6624   | 6587   | 6594   | 7775   | 8170   | 6477   |
|                                     | %  | 32%      | 34%    | 33%    | 30%    | 33%    | 31%    | 24%    | 25%    | 25%    | 28%    | 32%    | 41%    |

\*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 higher Capacity Factor represents a better utilization of the maximum capacity the project is able to produce.

| Average Production (MW) and Capacity Factor          |  | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |     |
|--|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| <b>AES Ilumina</b><br>Nameplate Cap: 20              |  | MW     | 4      | 4      | 4      | 4      | 4      | 4      | 3      | 3      | 3      | 4      | 3      | 4   |
|  |  | CF     | 22%    | 21%    | 21%    | 20%    | 20%    | 21%    | 17%    | 17%    | 17%    | 19%    | 17%    | 21% |
| <b>Windmar Cantera Martinó</b><br>Nameplate Cap: 2.1 |  | MW     | 0.5    | 0.5    | 0.4    | 0.5    | 0.5    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.5 |
|  |  | CF     | 24%    | 24%    | 21%    | 23%    | 22%    | 21%    | 19%    | 19%    | 21%    | 21%    | 18%    | 25% |
| <b>San Fermín</b><br>Nameplate Cap: 20               |  | MW     | 3      | 3      | 3      | 3      | 3      | 3      | 2      | 2      | 2      | 2      | 2      | 2   |
|  |  | CF     | 14%    | 13%    | 14%    | 13%    | 13%    | 13%    | 11%    | 10%    | 10%    | 10%    | 9%     | 12% |
| <b>Horizon Energy</b><br>Nameplate Cap: 10           |  | MW     | 3      | 3      | 3      | 3      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 3   |
|  |  | CF     | 28%    | 28%    | 26%    | 27%    | 23%    | 23%    | 24%    | 24%    | 24%    | 25%    | 22%    | 27% |
| <b>Oriana Energy</b><br>Nameplate Cap: 45            |  | MW     | 11     | 11     | 11     | 11     | 10     | 11     | 10     | 9      | 9      | 10     | 10     | 10  |
|  |  | CF     | 25%    | 25%    | 24%    | 24%    | 21%    | 25%    | 21%    | 20%    | 20%    | 22%    | 21%    | 23% |
| <b>Windmar Coto Laurel</b><br>Nameplate Cap: 10      |  | MW     | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2      | 2   |
|  |  | CF     | 20%    | 21%    | 21%    | 23%    | 22%    | 22%    | 18%    | 17%    | 17%    | 16%    | 16%    | 19% |
| <b>Fonroche Humacao</b><br>Nameplate Cap: 40         |  | MW     | 9      | 8      | 9      | 8      | 8      | 8      | 6      | 6      | 6      | 7      | 7      | 9   |
|  |  | CF     | 22%    | 21%    | 22%    | 21%    | 19%    | 20%    | 16%    | 15%    | 16%    | 16%    | 17%    | 21% |
| <b>Total Solar</b><br>Nameplate Cap: 147             |  | MW     | 33     | 32     | 32     | 31     | 29     | 31     | 26     | 25     | 25     | 27     | 26     | 31  |
|  |  | CF     | 22%    | 22%    | 22%    | 21%    | 20%    | 21%    | 18%    | 17%    | 17%    | 18%    | 17%    | 21% |

\*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 higher Capacity Factor represents a better utilization of the maximum capacity the project is able to produce.

Average Production (MW) and Capacity Factor

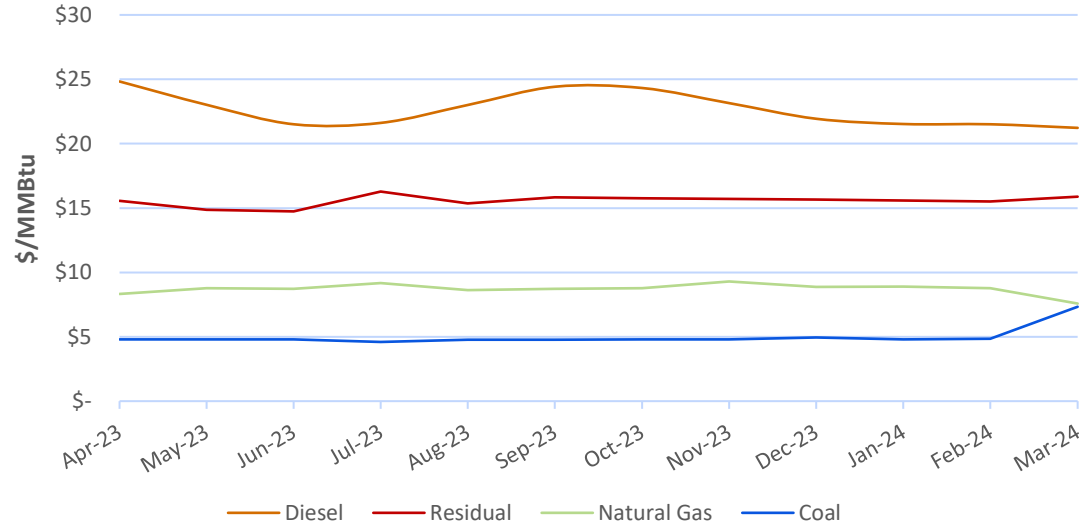
|  |  | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |     |
|--|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| <b>Pattern Santa Isabel</b><br>Nameplate Cap: 95       |  | MW     | 13     | 11     | 12     | 20     | 14     | 6      | 5      | 12     | 12     | 17     | 10     | 13  |
|  |  | CF     | 18%    | 15%    | 15%    | 27%    | 19%    | 9%     | 6%     | 17%    | 15%    | 22%    | 13%    | 14% |
| <b>Punta Lima</b><br>Nameplate Cap: 26                 |  | MW     | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 3      | 4      | 6      | 4      | 5   |
|  |  | CF     | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 4%     | 11%    | 17%    | 25%    | 14%    | 20% |
| <b>Landfill Gas Fajardo</b><br>Nameplate Cap: 2.4      |  | MW     | 0.4    | 0.7    | 0.5    | 0.5    | 0.4    | 0.3    | 0.6    | 0.3    | 0.5    | 0.2    | 0.0    | 0.0 |
|  |  | CF     | 15%    | 28%    | 22%    | 21%    | 16%    | 14%    | 24%    | 11%    | 22%    | 10%    | 0%     | 0%  |
| <b>Landfill Gas Toa Baja</b><br>Nameplate Cap: 2.4     |  | MW     | 0.8    | 0.6    | 0.9    | 1.3    | 0.9    | 1.1    | 1.3    | 1.2    | 1.1    | 1.0    | 1.0    | 1.0 |
|  |  | CF     | 32%    | 24%    | 39%    | 55%    | 36%    | 45%    | 55%    | 49%    | 46%    | 42%    | 43%    | 41% |
| <b>Total Wind and Landfill</b><br>Nameplate Cap: 125.8 |  | MW     | 14     | 12     | 13     | 22     | 16     | 8      | 8      | 17     | 17     | 24     | 14     | 20  |
|  |  | CF     | 14%    | 12%    | 12%    | 21%    | 15%    | 7%     | 7%     | 16%    | 17%    | 23%    | 14%    | 16% |

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

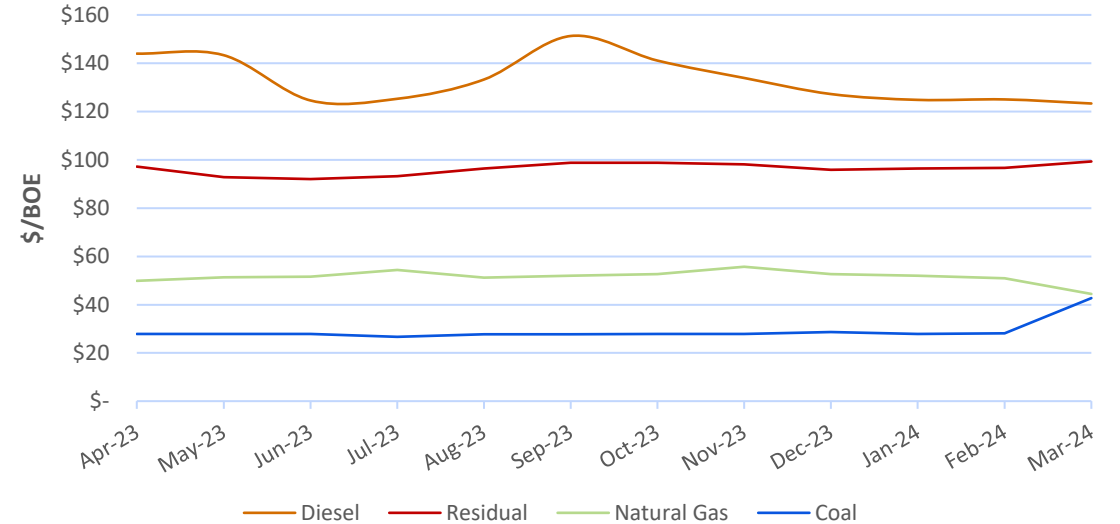
# Fuel Prices

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.

### Historical Fuel Price (\$/MMBtu)



### Historical Fuel Price (\$/BOE)



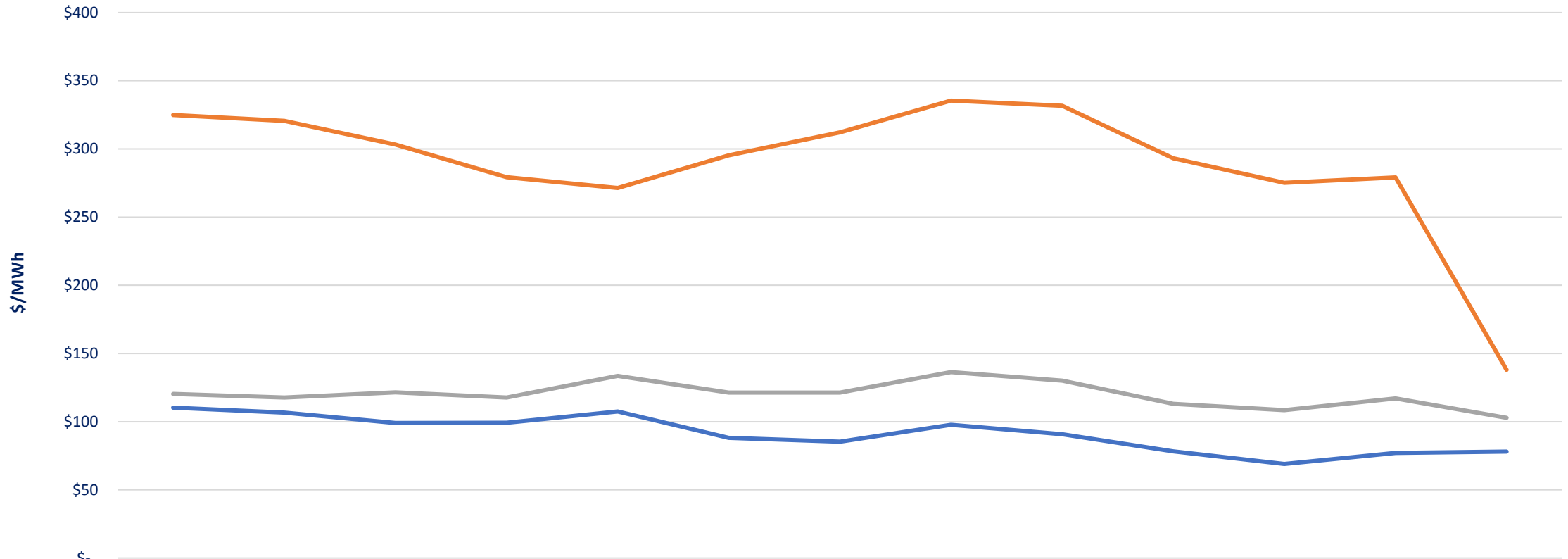
|                 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Jan-24 | Feb-24 | Mar-24 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>\$/MMBtu</b> |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Diesel          | 24.84  | 23.02  | 23.88  | 21.61  | 23.01  | 23.01  | 24.43  | 24.33  | 23.15  | 21.93  | 21.52  | 21.50  | 21.22  |
| Residual        | 15.57  | 14.86  | 14.75  | 16.29  | 15.37  | 15.37  | 15.83  | 15.77  | 15.70  | 15.66  | 15.57  | 15.52  | 15.88  |
| Natural Gas     | 8.34   | 8.77   | 8.73   | 9.18   | 8.62   | 8.62   | 8.72   | 8.77   | 9.30   | 8.87   | 8.91   | 8.77   | 7.59   |
| Coal            | 4.80   | 4.80   | 4.80   | 4.60   | 4.79   | 4.79   | 4.79   | 4.80   | 4.80   | 4.95   | 4.80   | 4.85   | 7.35   |
| <b>\$/BOE</b>   |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Diesel          | 143.93 | 143.30 | 124.61 | 125.28 | 133.24 | 133.24 | 151.21 | 141.06 | 133.88 | 127.24 | 124.84 | 125.03 | 123.35 |
| Residual        | 97.19  | 92.75  | 92.01  | 93.14  | 96.34  | 96.34  | 98.81  | 98.75  | 98.09  | 95.89  | 96.38  | 96.71  | 99.35  |
| Natural Gas     | 49.88  | 51.27  | 51.62  | 54.32  | 51.23  | 51.23  | 51.93  | 52.63  | 55.73  | 52.63  | 51.96  | 50.94  | 44.49  |
| Coal            | 27.86  | 27.86  | 27.86  | 26.68  | 27.78  | 27.78  | 27.78  | 27.86  | 27.86  | 28.69  | 27.85  | 28.16  | 42.66  |

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

# 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.

Variable Production Costs (\$/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 | Mar-24 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Baseload Prod. Cost  | \$110  | \$107  | \$99   | \$99   | \$108  | \$88   | \$85   | \$98   | \$91   | \$78   | \$69   | \$77   | \$78   |
| Peaker Prod. Cost    | \$325  | \$321  | \$303  | \$279  | \$271  | \$295  | \$312  | \$335  | \$332  | \$293  | \$275  | \$279  | \$138  |
| Weighted Prod. Costs | \$120  | \$118  | \$122  | \$118  | \$134  | \$121  | \$121  | \$136  | \$130  | \$113  | \$108  | \$117  | \$103  |

— Baseload Prod. Cost — Peaker Prod. Cost — Weighted Prod. Costs

\*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).<br>Planned Hours – hours provided in the Generation Outage Schedule for the following 90-day outlook.<br>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 |       |                 |                     |                  |                                |                              |                            | PEAKER UNITS                 |            |                 |                     |                  |                                |                              | 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 |
| San Juan       | CT 5  | X               | X                   | X                | X                              |                              |                            | FEMA San Juan                | GT 1       | X               | X                   |                  |                                | X                            |                            | Other Peakers | Daguao 1-1    | X               | X                   | X                |                                | X                            |                            |
|                | STM 5 | X               | X                   | X                | X                              |                              |                            |                              | GT 2       | X               | X                   |                  |                                | X                            |                            |               | Daguao 1-2    | X               | X                   | X                |                                | X                            |                            |
|                | CT 6  | X               | X                   | X                | X                              |                              |                            |                              | GT 3       | X               | X                   |                  |                                | X                            |                            |               | Aguirre 2-1   | X               | X                   | X                |                                | X                            |                            |
|                | STM 6 | X               | X                   | X                | X                              |                              |                            |                              | GT 4       | X               | X                   |                  |                                | X                            |                            |               | Aguirre 2-2   | X               | X                   | X                |                                | X                            |                            |
|                | 7     | X               | X                   | X                | X                              |                              |                            |                              | 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                   |                  |                                | X                            |                            |               | Jobos 1-1     | X               | X                   | X                |                                | X                            |                            |
|                | 10    | X               | X                   | X                | X                              |                              |                            |                              | GT 8       | X               | X                   |                  |                                | X                            |                            |               | Jobos 1-2     | X               | X                   | X                |                                | X                            |                            |
| Costa Sur      | 5     | X               | X                   | X                | X                              |                              |                            |                              | GT 9       | X               | X                   |                  |                                | X                            |                            |               | Yabucoa 1-1   | X               | X                   | X                |                                | X                            |                            |
|                | 6     | X               | X                   | X                | X                              |                              |                            |                              | GT 10      | X               | X                   |                  |                                | X                            |                            |               | Yabucoa 1-2   | X               | X                   | X                |                                | X                            |                            |
| Aguirre        | 1     | X               | X                   | X                | X                              |                              |                            | Palo Seco (Inc. Mobile-Pack) | 1-1        | X               | X                   | X                |                                | X                            |                            | Vega Baja 1-1 | X             | X               | X                   |                  | X                              |                              |                            |
|                | 2     | X               | X                   | X                | X                              |                              |                            |                              | 1-2        | X               | X                   | X                |                                | X                            |                            | Vega Baja 1-2 | X             | X               | X                   |                  | X                              |                              |                            |
| Palo Seco      | 1     | X               | X                   | X                | X                              |                              |                            |                              | 2-1        | X               | X                   | X                |                                | X                            |                            | Vieques 1     | X             | X               | X                   |                  | X                              |                              |                            |
|                | 2     | X               | X                   | X                | X                              |                              |                            |                              | 2-2        | X               | X                   | X                |                                | X                            |                            | Vieques 2     | X             | X               | X                   |                  | X                              |                              |                            |
|                | 3     | X               | X                   | X                | X                              |                              |                            |                              | 3-1        | X               | X                   | X                |                                | X                            |                            | Culebra 1     | X             | X               | X                   |                  | X                              |                              |                            |
|                | 4     | X               | X                   | X                | X                              |                              |                            |                              | 3-2        | X               | X                   | X                |                                | X                            |                            | Culebra 2     | X             | X               | X                   |                  | X                              |                              |                            |
| AES            | AES 1 | X               | X                   | X                | X                              |                              |                            |                              | MP 1       | X               | X                   | X                |                                | X                            |                            | Culebra 3     | X             | X               | X                   |                  | X                              |                              |                            |
|                | AES 2 | X               | X                   | X                | X                              |                              |                            |                              | MP 2       | X               | X                   | X                |                                | X                            |                            | Cambalache    | 1             | X               | X                   | X                |                                | X                            |                            |
| EcoEléctrica   | ECO 1 | X               | X                   | X                | X                              |                              |                            |                              | MP 3       | X               | X                   | X                |                                | X                            |                            |               | 2             | X               | X                   | X                |                                | X                            |                            |
|                | ECO 2 | X               | X                   | X                | X                              |                              |                            |                              | Aguirre CC | I-1             | X                   | X                | X                              |                              | X                          |               |               | 3               | X                   | X                | X                              |                              | X                          |
|                | STM 1 | X               | X                   | X                | X                              |                              |                            | I-2                          |            | X               | X                   | X                |                                | X                            |                            | Mayaguez      | 1A            | X               | X                   | X                |                                | X                            |                            |
| PEAKER UNITS   |       |                 |                     |                  |                                |                              |                            | I-3                          |            | X               | X                   | X                |                                | X                            |                            |               | 1B            | X               | X                   | X                |                                | X                            |                            |
| FEMA Palo Seco | GT 1  | X               | X                   |                  |                                | X                            |                            | I-4                          |            | X               | X                   | X                |                                | X                            |                            |               | 2A            | X               | X                   | X                |                                | X                            |                            |
|                | GT 2  | X               | X                   |                  |                                | X                            |                            | ST-1                         |            | X               | X                   | X                |                                | X                            |                            |               | 2B            | X               | X                   | X                |                                | X                            |                            |
|                | GT 4  | X               | X                   |                  |                                | X                            |                            | II-1                         |            | X               | X                   | X                |                                | X                            |                            |               | 3A            | X               | X                   | X                |                                | X                            |                            |
|                | GT 5  | X               | X                   |                  |                                | X                            |                            | II-2                         |            | X               | X                   | X                |                                | X                            |                            |               | 3B            | X               | X                   | X                |                                | X                            |                            |
|                | GT 6  | X               | X                   |                  |                                | X                            |                            | II-3                         |            | X               | X                   | X                |                                | X                            |                            |               | 4A            | X               | X                   | X                |                                | X                            |                            |
|                | GT 7  | X               | X                   |                  |                                | X                            |                            | II-4                         |            | X               | X                   | X                |                                | X                            |                            |               | 4B            | X               | X                   | X                |                                | X                            |                            |
|                |       |                 |                     |                  |                                |                              | X                          |                              |            | ST-2            | X                   | X                | X                              |                              | X                          |               |               |                 |                     |                  |                                |                              |                            |

# Plant and Unit List – Renewable Projects

## SOLAR PROJECTS

| Projects        | System Reserves | System Availability | System Heat Rate | All Metrics for Baseload Units | All Metrics for Peaker Units | Renewables Capacity Factor |
|-----------------|-----------------|---------------------|------------------|--------------------------------|------------------------------|----------------------------|
| AES Ilumina     |                 |                     |                  |                                |                              | X                          |
| Cantera Martínó |                 |                     |                  |                                |                              | X                          |
| San Fermín      |                 |                     |                  |                                |                              | X                          |
| Horizon Energy  |                 |                     |                  |                                |                              | X                          |
| Oriana Energy   |                 |                     |                  |                                |                              | X                          |
| Coto Laurel     |                 |                     |                  |                                |                              | X                          |
| Humacao         |                 |                     |                  |                                |                              | X                          |

## WIND AND LANDFILL PROJECTS

| Projects              | System Reserves | System Availability | System Heat Rate | All Metrics for Baseload Units | All Metrics for Peaker Units | Renewables Capacity Factor |
|-----------------------|-----------------|---------------------|------------------|--------------------------------|------------------------------|----------------------------|
| Pattern Santa Isabel  |                 |                     |                  |                                |                              | X                          |
| Punta Lima            |                 |                     |                  |                                |                              | X                          |
| Landfill Gas Fajardo  |                 |                     |                  |                                |                              | X                          |
| Landfill Gas Toa Baja |                 |                     |                  |                                |                              | X                          |

## HYDRO PLANTS

| 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      |                 |                     |                  |                                |                              |                            |