



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: FEBRUARY 24, 2025

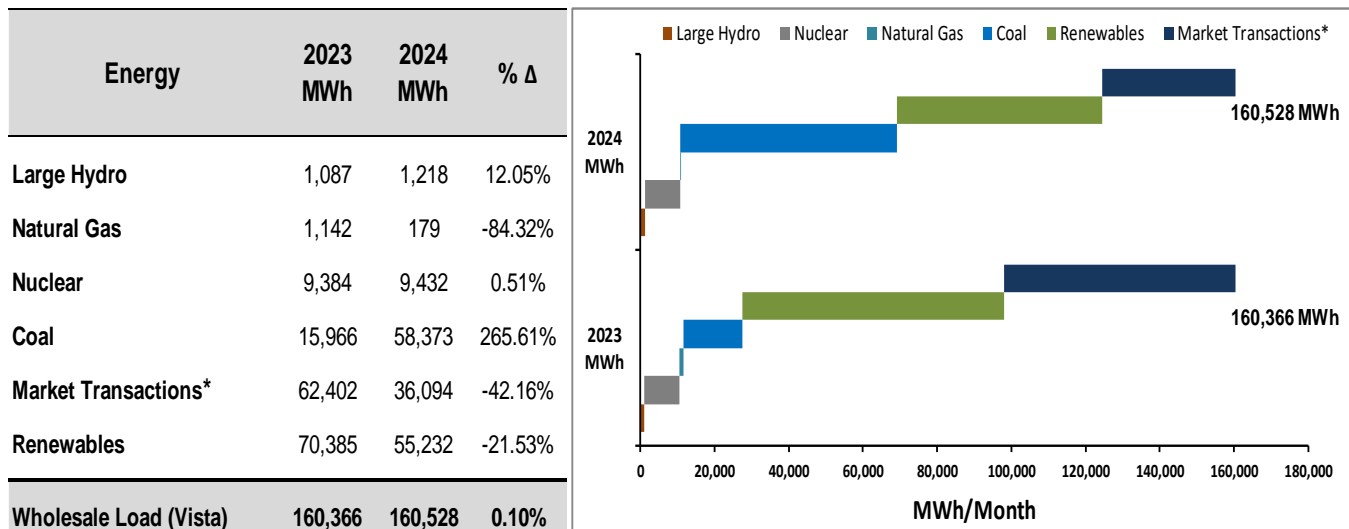
GENERAL MANAGER'S REPORT

SUBJECT: MONTHLY POWER SUPPLY REPORT – DECEMBER 31, 2024

Monthly Power Usage:

The wholesale load (Vista Substation) for December was 160,528 MWh, an increase of 163 MWh compared to the same month in the previous year. Renewable generation served 34.41% or 55,232 MWh of wholesale load. Coal generation served 36.36% or 58,373 MWh of wholesale load. Nuclear energy served 5.88% or 9,432 MWh. Internal natural gas generation served 0.11% or 179 MWh of wholesale load. Hydro generation served 0.76% or 1,218 MWh of wholesale load. Finally, the balance for December was covered by Market Transactions, which served 22.48% or 36,094 MWh of the load. Coal generation increased significantly in December 2024, as compared to December 2023, due to the need for Riverside to consume its remaining coal supply at IPP.

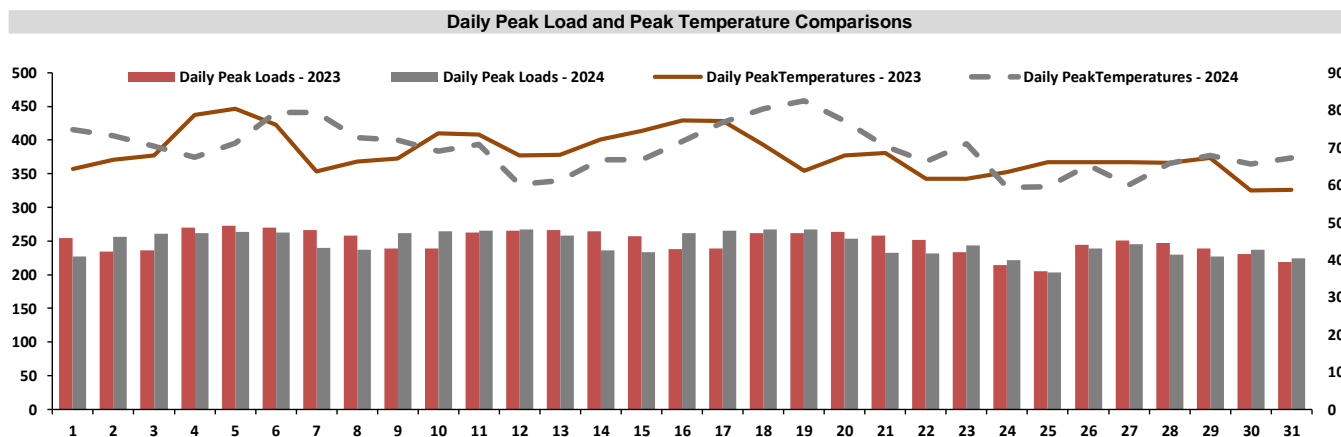
Wholesale Resource Mix - December 2023 vs 2024



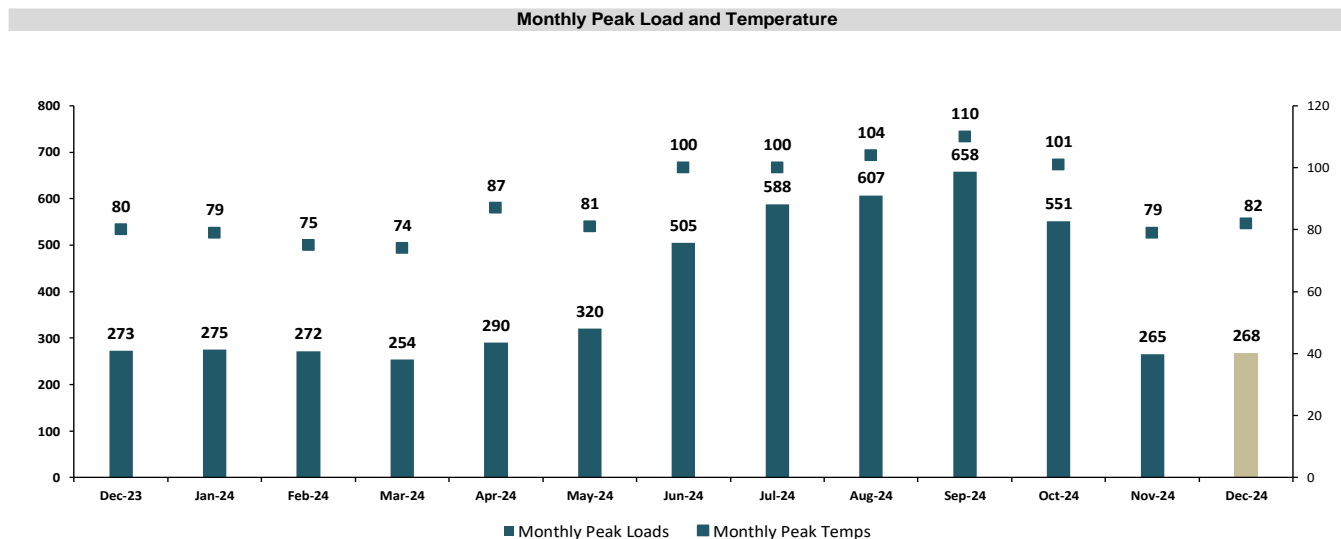
* The Market Transaction category comprises bilateral power contracts and purchases(sales) from(to) the CAISO.

Daily & Monthly Load & Temperature Trends

Weather, especially the variable temperature, significantly impacts electricity demand. Typically, as temperatures increase, electricity demand will also increase, and vice versa. The charts below graphically extrapolate the correlation between weather and electricity demand. In December 2024, average daily peak temperatures oscillated around 70 degrees. In December 2023, average daily peak temperatures oscillated around 68 degrees. The monthly peak temperature in December 2024 was 83 degrees, while the monthly peak temperature in December 2023 was 80 degrees. Differences in the graphical representation of average temperatures may be due to differences in the day of the week and/or weather trends presenting themselves in earlier or later parts of the month.



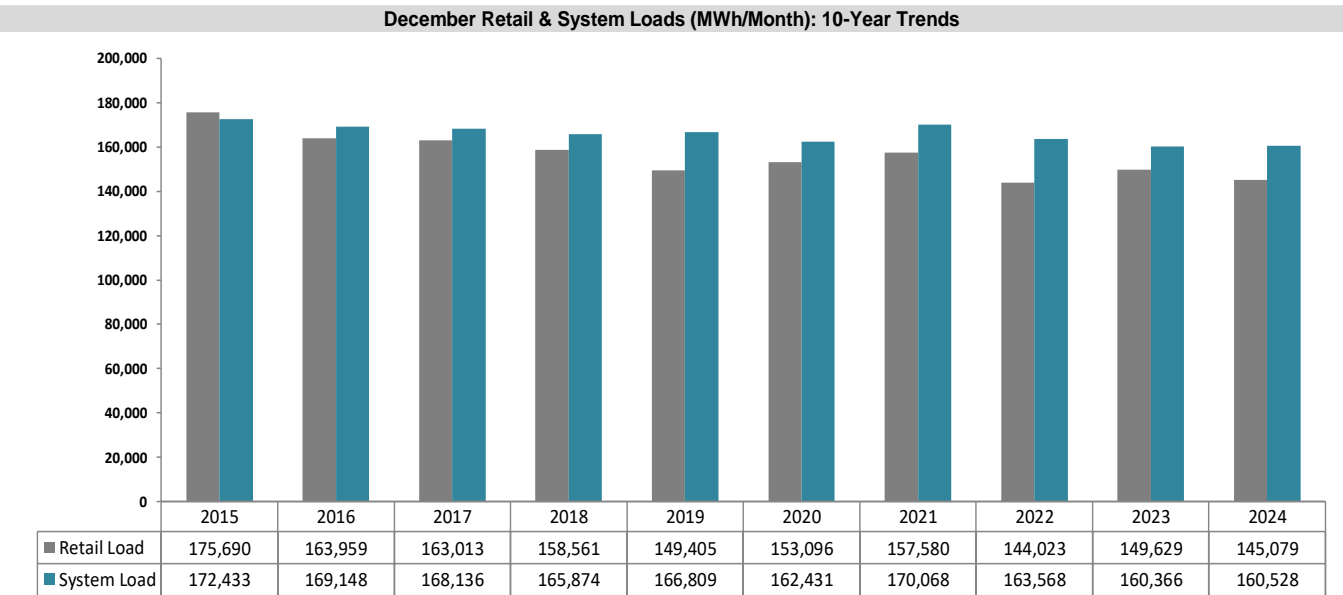
Average weather patterns were similar in December 2023 compared to December 2024. In December 2024, the average daily peak load was 247 MW, with the monthly peak load reaching 268 MW. The average daily peak load in December 2023 was 249 MW, with the monthly peak load reaching 273 MW.



Hourly demand peaked at 268 MW on 12/19/24 HE 19, a decrease of 5 MW compared to a peak of 273 MW the same month last year. Riverside's resources covered 100% of the hourly peak demand on 12/19/24.

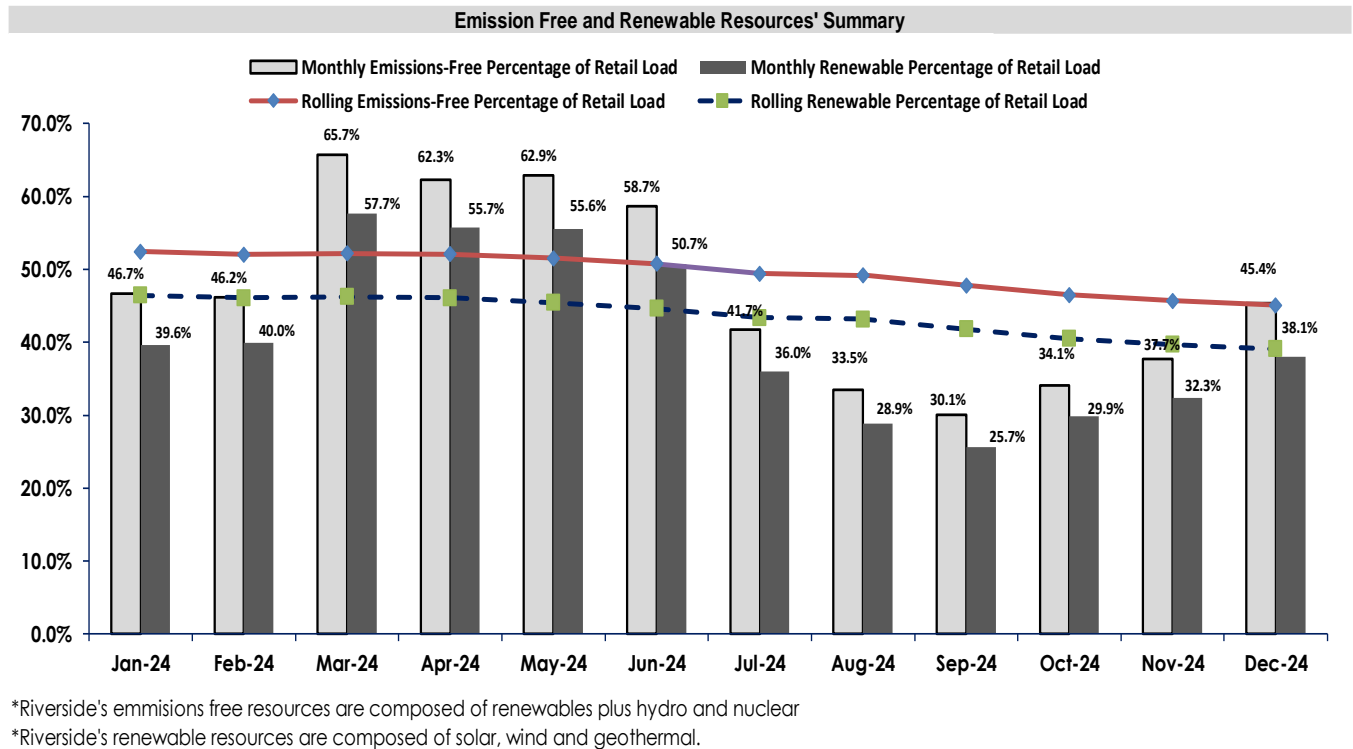
10-Year Retail Load Trends

The retail load for December 2024 was 145,079 MWh, a decrease of 4,550 MWh from the previous year's reading of 149,629 MWh. The System load for December 2024 was 160,528 MWh, an increase of 163 MWh from the prior year's reading of 160,366 MWh. Retail load values can be impacted by the significant adoption of residential PV solar, efficiency programs, adoption of energy-efficient appliances, available meter data, etc.



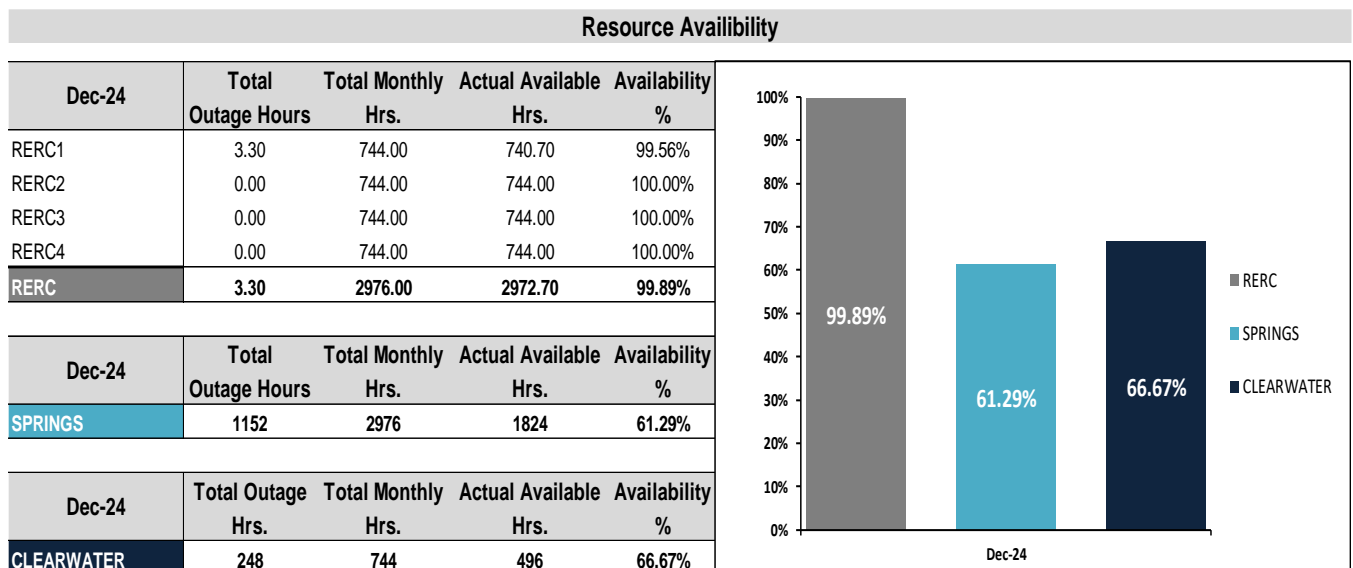
Renewable Generation Trends

In December 2024, nuclear generation experienced an increase of 17.4% in production compared to November 2024 and an increase of 0.5% compared to December 2023. Total hydroelectric generation experienced a decrease of 25% compared to November 2024 and an increase of 12.1% compared to December 2023. In December 2024, wind generation experienced a decrease of 33% in production compared to November 2024 and about an increase of 78% compared to December 2023. In December 2024, solar generation experienced a decrease of 13% in production compared to November 2024 and an increase of 14% in production compared to December 2023. In December 2024, geothermal generation experienced a decrease of 1.5% in production compared to November 2024 and a 28% decrease in production compared to December 2023. In December 2024, renewable generation, as a percentage of retail load, increased by about 5.7 percentage points from November 2024 and decreased by about 9 percentage points compared to December 2023. Lastly, in December 2024, Emissions-Free generation, as a percentage of retail load, increased by about 8 percentage points from November 2024 and decreased by 9 percentage points compared to December 2023. The driving factors for the decreased percentages in December 2024, compared to December 2023, are attributed to slight decreases in geothermal with increases in total load over the month. The Emissions Free and Renewable Resources summary graph reflects a rolling 12-month trend line.



December 2024 Resource Availability - Internal Generation

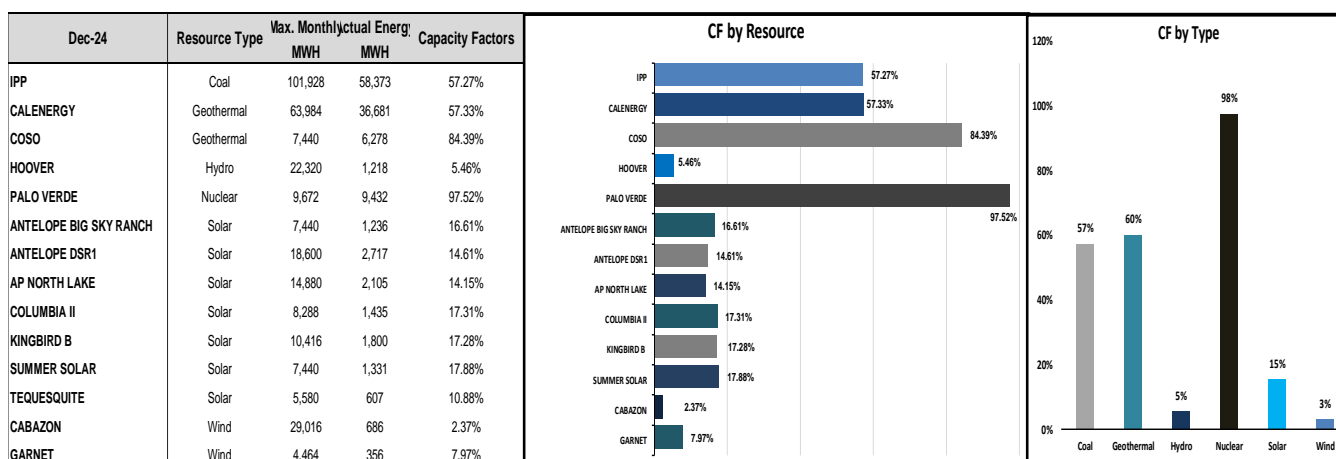
- RERC's availability for the month was 99.89%.
- Spring's availability for the month was 61.29%.
- Clearwater's availability for the month was 66.67%.



December 2024 Resource Availability – External Resources

Solar resources had capacity factors ranging from 10.88% to 17.88%. Wind resources had capacity factors ranging from 2.37% to 7.97%. Riverside's Palo-Verde nuclear share had steady production with a capacity factor of 97.52%. Hoover is an energy-limited resource and continues to be affected by lake-level restrictions. The resource maintained a 5.46% capacity factor for the month. Riverside's monthly IPP coal resource maintained a capacity factor of 57.27%. Riverside's geothermal resources had capacity factors ranging from 57.33% to 84.39%, affected slightly by under-generation. It is worth noting that intermittent renewable resources, including wind and solar, have capacity factors that are affected by natural factors such as cloud cover, blowing wind, etc.

Resource Capacity Factor



Resource Outages and Transmission Constraints

- RERC
 - Unit 1 plant trouble
- SPRINGS
 - Various maintenance tasks – Fall Outage
- CLEARWATER
 - Various maintenance tasks – Fall Outage