Electric power consumption of RIKEN Nishina Center in 2024

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A comparison of the electricity consumption of RIKEN Nishina Center (RNC) for each month in 2024 with those in 2022 and 2023 is presented in Fig. 1. The higher electricity consumption in 2024 than in 2023 is likely because the RI Beam Factory (RIBF) experiment was not conducted for a year in 2023 owing to equipment problems.[1)] The difference was more pronounced in March-June and October-December, when the RIBF experiment was conducted last year.

In 2024, the total annual power consumption of the RNC was 76,854 MWh, an increase of 73% when compared with that in 2023. This increase was primarily due to the shutdown of the RIBF experiment and its associated infrastructure equipment, as mentioned above. The total output of the RNC reached a maximum of 17.9 MW on November 27, when the RIBF experiment with a uranium (^{238}U) beam, the AVF experiment with a proton beam, and the GARIS experiment were in progress.

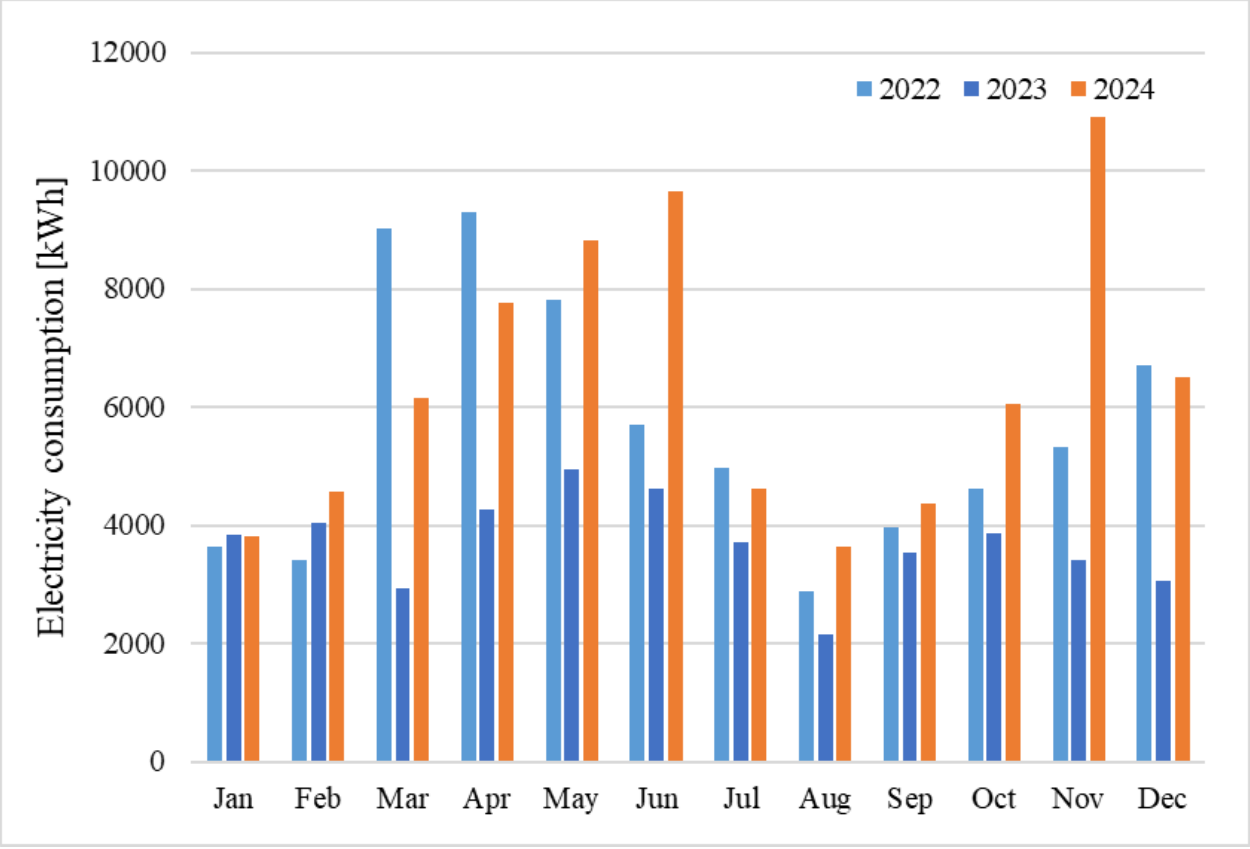

Fig. 1. Electricity consumption at RNC for each month in 2024 when compared with those in 2022 and 2023.

Reference
1) K. Kobayashi *et al.*, RIKEN Accel. Prog. Rep. **56**, 207 (2023).

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DOI:10.34448/RIKEN.APR.58-246