Electric power consumption of RIKEN Nishina Center in 2023

M. Kidera,^{*1} T. Maie,^{*1} S. Watanabe,^{*1} T. Ohshiro,^{*1} E. Ikezawa,^{*1} and O. Kamigaito^{*1}

A comparison of the electricity consumption of the RIKEN Nishina Center (RNC) for each month in 2023 with those in 2021 and 2022 is presented in Fig. 1. The lower power consumption in 2023 compared to 2022 is likely because the RI Beam Factory (RIBF) experiment not being conducted for one year owing to equipment problems.¹⁾ The difference was more pronounced in March-June and November-December, when the RIBF experiment was conducted last year.

In 2023, the total annual power consumption of the RNC was 44,332 MWh, which was decrease of 34%

when compared 2022. This decrease was primarily owing 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 9.5 MW on June 7, when the ⁴⁰Ar beam was being tuned by the AVF, RRC, and IRC accelerators and the GARIS experiment was in progress.

Reference

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



Fig. 1. Electricity consumption at RNC for each month in 2023 when compared with that in 2021 and 2022.

^{*1} RIKEN Nishina Center

DOI:10.34448/RIKEN.APR.57-192