

Electric power status of RIKEN Nishina Center in 2020

E. Ikezawa,^{*1} M. Kidera,^{*1} Y. Watanabe,^{*1} H. Yamasawa,^{*1} and O. Kamigaito^{*1}

The average hourly electrical power consumption of the RIKEN Nishina Center (RNC) for each day in 2020 is shown in Fig. 1. The total electrical power consumption by RNC in 2020 was 56,549 MWh, which was 1% lower than that in 2019. When the experiment using an argon (^{40}Ar) beam accelerated by the AVF + RRC + IRC was conducted on July 1, 2020, the

maximum commercial electrical power supply to the RIKEN Wako campus reached 20.4 MW with a cogeneration system (CGS) output of 6.0 MW. When RI Beam Factory (RIBF) experiments using an uranium (^{238}U) beam were conducted on October 23, 2020, the maximum electrical power consumption of RNC reached 17.5 MW.

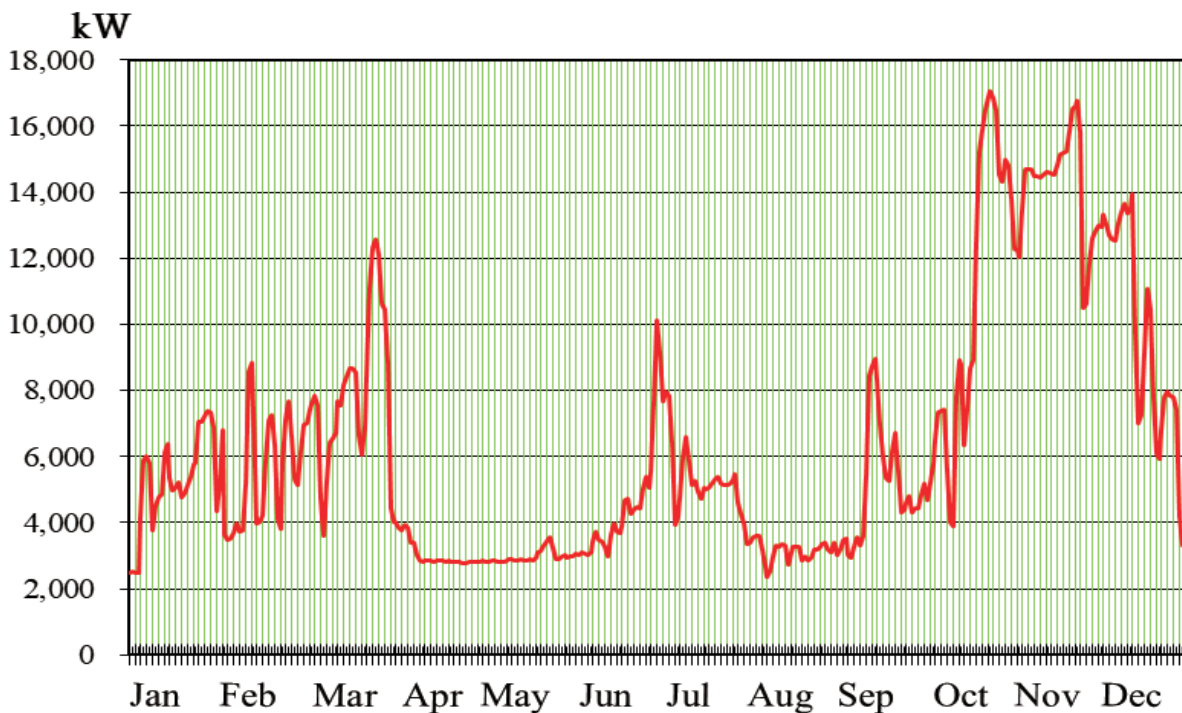


Fig. 1. Average hourly electrical power consumption of RNC for each day in 2020.

^{*1} RIKEN Nishina Center