

18th Series of Unsecured Corporate Bonds (Green Bonds) funding allocation and impact reporting (as of December 2024)

Amount raised	Unallocated amount
10.0 billion yen	0 billion yen (fully allocated)

Project name	Summary	Impact reporting
Procurement of recycled PET resin	Recycled PET resin is produced by mechanical recycling of used PET bottles. By using this resin as the raw material for PET bottle, it is possible to recycle PET bottles into PET bottles, which contribute to reducing the use of petroleum resources. It has been shown that this process reduces CO2 emission at the manufacturing stage by approximately 50-60% compared with the resin newly produced from petroleum. While 636,000 tons of PET bottles are manufactured annually in Japan, the total amount of recycled PET resin used as a raw material for PET bottles is only 215,000 tons. As such, there is a need to expand the use of recycled PET resin in PET bottle manufacturing (quoted from the Annual Report 2024 of the PET Bottle Recycling Promotion Council). Amount allocated (cumulative): 9.5 billion yen (21.9% refinanced)	The ratio of recycled PET resin across the Kirin Group as a whole was 36%.
Introduction of heat pump systems at plants	A heat pump system is a technology that recovers low-temperature heat sources from air and water and converts them into high-temperature energy by adding energy. In industrial applications, unutilized heat sources such as waste air and waste heat are used to generate high-temperature energy, which is then applied to production processes such as heating, insulation, sterilization, drying, cleaning, and distillation. The Kirin Group utilizes heat pump systems to assist in heat generation and are gradually reducing the use of fossil fuels in the manufacturing process, which accounts for the majority of GHG emissions. In addition, by sourcing the electricity used as an energy source from renewable energy, we are working to develop a manufacturing system that emits less GHGs. We have completed the introduction of heat pump systems at six plants in Japan. Amount allocated (cumulative): 0.5 billion yen (41.7% refinanced)	The Kirin Group reduced GHG emissions by 5,184 tons in FY 2024 through the introduction of heat pump systems.