The entire Glory Group works to protect the environment under the Glory Environmental Vision.

To create a sustainable society, the Glory Group has formulated an environmental vision with three areas of focus: products, business, and awareness. Under this vision, the entire Glory Group is taking action on the themes of the prevention of global warming, management and reduction of chemical substances, effective use of resources, and preservation of biodiversity.

Developing Environmentally Friendly Products

The Glory Group develops environmentally friendly products that minimize environmental impact throughout the product life cycle—from material procurement and customer use of the product through to final disposal.

Glory certifies products as G-Eco products if they satisfy certain in-house standards for environmental friendliness—for example, if they exhibit electric power efficiency at least 15% better than existing products and if they conform to regulations on chemicals contained in products. Of the G-Eco products developed in fiscal year 2017, the R03 Series coin and banknote recyclers for convenience stores use approximately 23% less electricity during operation than their predecessor products.

R03 Series coin and banknote recycler

Reducing Environmental Impact from Business Activities

Promoting Environmentally Friendly Logistics
Glory strives to be environmentally friendly at its distribution centers. Collaboration is carried out with other companies to ensure both their products and Glory products can be sent together to delivery points. In addition, greater shipping efficiency is achieved through efforts including loading products bound for multiple destinations on to one truck that makes trips to various delivery points. Furthermore, by switching transport from trucks to lower-impact methods such as railways and ships, CO_2 emissions are cut and energy is used more efficiently, resulting in a lower impact on the environment.

Loading products on to a railway container

Using Environmentally Friendly Nesting

Glory designs products based on the concept of nesting[*1] right from the development stage. By conducting design with consideration for material, thickness, necessary amount, and molds of the components used in the product, nesting can be done for each product and component processing can be carried out according to production plans. In addition, nesting allows components to be designed on to and cut from a metal sheet to make the most efficient use of the material. This reduces the amount of material waste and has resulted in a yield rate[*2] as much as 15% or higher than previously.

Nesting means that only the necessary amount of product is produced, and only when needed. The result is the effective use of resources.

A fiber laser cutting machine is used to process components according to a nested design

*1 Nesting: Making multiple components at the same time from a single steel sheet.
*2 Yield rate: The number of products that can be made per amount of raw material.

Preserving Biodiversity

Since fiscal year 2011, Glory has strived to protect and maintain biodiversity through initiatives such as forest conservation activities and nature appreciation events at the Glory Yumesaki Forest (Himeji City, Hyogo Prefecture), with the aim of conveying to young people the importance of nature. In fiscal year 2013, Glory began expanding its activities to the Kanto region and in fiscal year 2017 it held a forest conservation activity in Hachioji City, Tokyo. In addition, a tree-planting event was held in Yamamoto Town, Miyagi Prefecture, where Glory employees planted 100 Japanese black pine trees to help restore a coastal disaster prevention forest that had been ravaged by the tsunami triggered by the 2011 Great East Japan Earthquake.

Another example of group-wide contributions to biodiversity preservation is the participation by employees of GLORY (PHILIPPINES), INC. in the Adopt-A-Tree Park Program since fiscal year 2011.

Employees participating in the Adopt-A-Tree Park Program

2017 Medium-Term Environmental Plan, Fiscal Year 2017 Results, 2020 Medium-Term Environmental Plan

Activity Areas	Activity Themes	2017 Medium-Term Environmental Targets	Fiscal Year 2017 Targets	Fiscal Year 2017 Results	2020 Medium-Term Environmental Targets
Products Development of environmentally friendly products	Prevention of global warming	Reduce CO_2 emissions compared with previous models by at least 15% (average across all new products)	Reduce by at least 15% (for products developed in fiscal year 2017)	Reduced by average of 27.3% (target achieved for 16 of 25 models)	Reduce CO_2 emissions compared with previous models by at least 15% (average across all new products)
	Management and reduction of chemical substances	Make all new products RoHS compliant	Comply with all relevant laws	All new products were RoHS compliant	Make all new products RoHS compliant
	Effective use of resources	Reduce CO_2 emissions during parts manufacturing by at least 10%	Reduce by at least 3% (for products developed in fiscal year 2017)	Reduced by average of 6.1% (by reducing number of parts) Note: Applies to G-Eco products (13 of 25 models achieved emissions same as or lower than previous models)	Note: To be established at a later date
Business Reduction of environmental impact from business activities	Prevention of global warming	Have environmentally friendly products account for at least 55% of sales Reduce annual per-unit energy consumption by 1%	At least 50% of sales Reduce annual average by 1%	Accounted for 63.8% of sales Reduced annual average by 2.1%	Have environmentally friendly products account for 70% of sales (fiscal year 2020) Reduce annual per-employee energy consumption by 1% (base year: fiscal year 2010)
	Management and reduction of chemical substances	Strictly manage chemical substances on a global scale	Conduct CMS audit	Conducted CMS audits at 6 group companies in Japan (to comply with RoHS Directive)	Strictly manage chemical substances
	Effective use of resources	Reduce annual volume of waste generated by 1% (base year: fiscal year 2010)	Manage control limits	Reduced annual volume of waste generated by average of 4.1%	Reduce annual volume of waste generated by 1% (base year: fiscal year 2010)
Awareness Raising environmental awareness	Preservation of biodiversity	Increase the contribution that the Glory Yumesaki Forest makes to biodiversity preservation (continue botanical surveys and improve management criteria)	Plant 20 trees Thin 1 hectare of forest	Himeji: Held forest conservation activity in April (20 trees planted, 1 hectare of forest thinned); held nature appreciation event for employee families in October Kanto area: Helped restore coastal disaster prevention forest in Yamamoto, Miyagi Prefecture in April; held forest conservation activity in Hachioji, Tokyo in May; held cleanup on banks of Arakawa River, Tokyo in March; donated puzzles made from sustainable wood to daycare center in October	Increase contribution to biodiversity preservation (improve management criteria) Plant 20 trees a year Thin 1 hectare of forest a year
		Cooperate with stakeholders to preserve biodiversity	Formulate plan Carry out plan	Himeji: 82 people participated in forest conservation activity (3 families [8 people] of Glory suppliers also participated); 89 people participated in nature appreciation event (3 families [13 people] of Glory suppliers also participated) Kanto area: 67 people participated in forest conservation activities in Yamamoto, Miyagi Prefecture and Hachioji, Tokyo (6 family members of Glory customers and suppliers also participated); 18 people participated in cleanup on banks of Arakawa River, Tokyo	Cooperate with stakeholders to preserve biodiversity
		Develop environment-related action programs on a global scale	Ascertain situation Formulate plan	Conducted questionnaire of overseas group companies Overseas group companies held biodiversity preservation activities and community cleanups	Disclose environmental information on CSR Report and website