

Concrete initiatives in response to climate change

Initiatives to reduce CO₂ emissions at construction sites

The Haseko Group is promoting the following initiatives at certain sites to reduce CO₂ emissions at construction sites. Going forward, we will continue to increase the number of cases of adoption and promotion of these initiatives, while taking the scale and location of project into consideration.







forklifts

Initiatives for reduction of Scope 1 emissions (CO_2 emissions from fuel consumption of construction vehicles, etc.)		
Reduction of the number of dump trucks transporting soil away from the site through effective on-site use of soil generated from construction	Use of eco-friendly fuel (GTL and B5) for heavy machinery	
Adoption of electric backhoes (trial)	Adoption of electric forklifts	
Adoption of battery-driven fully electric rough terrain cranes	Adoption of ALC hardware non-welding method	

tiatives for reduction of Scope 2 emissions (CO ₂ emissions from power consumption at sites)		
Adoption of biomass electric power	Use of LED for temporary lighting at sites	
Adoption of solar power generation using prefabricated house roofs		

$Initiatives for reduction of Scope 3 emissions (CO_2 emissions associated with manufacture and transport of construction materials and transport, processing, etc. of waste) and transport of construction materials and transport of construction m$			
Reduction and thorough separation of waste	Reduction of the number of transport vehicles by		

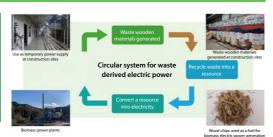
Use of biomass electric power

In cooperation with an outside power generation company, we have introduced a resource recycling initiative to utilize renewable energy from biomass power generation, which uses waste wooden materials generated at construction sites as part of its fuel as a temporary power supply at construction sites.

This initiative can reduce CO₂ emissions from power generation, as compared with the case of using electricity supplied from conventional thermal power plants, contributing to the mitigation of global warming.



A signboard for sites biomass power generation



reducing volume of waste

Development of "H-BA Concrete," an environment-conscious concrete

In 2021, we formulated the Haseko Group's Climate Change Response Policy, "HASEKO ZERO-Emission," and we are working to popularize "H-BA concrete" to reduce greenhouse gas (CO₂)

Produced by blending ordinary Portland cement and blast furnace cement type-B, H-BA concrete is so versatile that it can replace conventional concrete. It is eco-conscious concrete that reduces CO₂ emissions derived from concrete materials by approximately 20%.

This product had been adopted in several projects, including parts of the common-use area of Renai Yokohama Totsuka (Totsuka-ku, Yokohama-shi, Kanagawa; total 439 units) and the entirety (foundations and above-ground framework) of Feel G Residence, a rental condominium building targeting students

(Nishi-ku, Kobe-shi, Hyogo; total 120 units). In August 2022, H-BA concrete obtained the "Special Evaluation Method Certification"2," which is recognized as an alternative evaluation method to methods that comply with the "Evaluation Method Standard"," from the Ministry of Land, Infrastructure, Transport and Tourism. This certification allows it to be used in for-sale condominiums that use dwelling performance indications.

Following the receipt of the Special Evaluation Method Certification, we fully adopted H-BA concrete in the aboveground framework of The Kensington Residence Kamiikedai in the Tokyo area (Ota City, Tokyo; total 42 units) and the foundations and above-ground framework of Renai Esaka Enokicho in the Kansai area (Suita-shi, Osaka; total 149 units) for the first time.

Main properties adopting H-BA Concrete and its greenhouse gas (CO₂) reduction effects

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FY	Usage volume (m³)	Reduction of CO ₂ (t-CO ₂)	Property adopting H-BA Concrete (completed properties)
2017	125	6.2	Haseko Technical Center
2020	25	1.1	Renai Yokohama Totsuka
2022	2,945	162.6	Feel G Residence/Bransiesta Urayasu/Acoustic Experiment Building, Haseko Technical Center/ Bransiesta Otorii
2023	2,361	140.8	The Kensington Residence Kamiikedai/ LATIERRA académico MITAKA
Total	5,456	310.7	

Switching to using 100% renewable energy at construction sites*

In May 2023, Haseko Corporation successfully switched 100% of electricity used at construction sites to renewable energy sources. It is planned that by the end of 2025, other Haseko Group companies including Fujikensetsu Co., Ltd., Haseko Reform Inc.

and Hosoda Corporation will also switch 100% of electricity used at their construction sites to renewable energy sources.

*This excludes sites pending requests to switch to renewable energy electricity subsequent to the commencement of construction and sites switching to (nonrenewable) power company supply before delivery.

CFCs (0.4 tons of halons) were recovered and destroyed, and

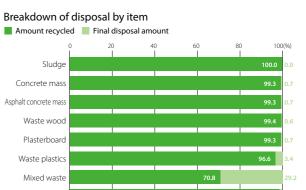
Efforts to reduce construction waste

The status of the recycling of construction waste

The amount of construction waste recycled in FY2023 was 416,500 tons for new building construction and 296,300 tons for demolition for a total of 712,800 tons. In addition, 79.7 tons of

3,065.8 tons of asbestos were properly processed and disposed of.





Pollution Prevention and Consideration for the Local Environment

Response to Soil and Water Pollution

In the acquisition of land, the Haseko Group investigates the usage history and conducts soil surveys by specialists if there is any doubt about soil contamination

When soil contamination is confirmed, appropriate measures are taken including removal or containment of pollutants in accordance with the Soil Contamination Countermeasures Act and other relevant laws and regulations. Similarly, we are responding appropriately to water pollution when problems are identified.

Consideration for the local environment

When constructing new condominiums or renovating existing properties, the Haseko Group makes efforts to give consideration to the local environment such as using low-vibration and low-noise construction vehicles and machinery. At some construction work sites, we have taken measures to minimize the impact on the surrounding area such as intermittently cleaning up the surrounding area, installing soundproof sheets on top of temporary enclosures, and taking measures to prevent noise during pile head processing.



Cleanup activity

Haseko Group Integrated Report 2024 Haseko Group Integrated Report 2024

^{*1} Evaluation Method Criteria: Criteria for methods of evaluating housing performance to be indicated in accordance with the Japan Housing Performance Indication Standards stipulated in the Housing Quality Assurance Act.

^{*2} Special evaluation method certification: Certification method approved on an individual basis by the Minister of Land, Infrastructure, Transport and Tourism for new materials and struction methods (e.g., structural safety, reduced deterioration, thermal environment, sound environment) that cannot be evaluated in accordance with evaluation method criteria stipulated in the Housing Quality Assurance Act.