

Corporate Information	Top Message	The HINO Credo & Course of Action	Realizing a Sustainable World	Environmental Management	Hino's Strategies and Initiatives and the Sustainable Development Goals (SDGs)	CSR Management	Topic	ESG Initiatives			
								Environment	Social	Governance	ESG data and others

Environmental Initiative Plan (5-year action plan) 2020 Environment Initiative Plan 2025 Environmental Initiative Plan
 Six Challenges (Initiatives) Compliance Environmental Management Various Environmental Data Other Activities



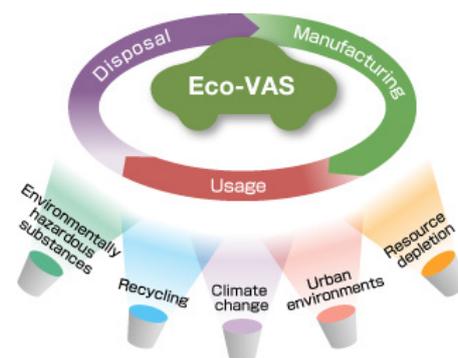
CHALLENGE! 2 Life Cycle Zero CO₂ Emissions

Environmental Load Reduction Activities Based on Life Cycle Assessment (LCA)

At Materials manufacturing stage **At the Distribution stage** **At the Disposal and recycling stage**

Factors such as measures for new regulations, vehicle performance enhancement efforts, and others can increase environmental burden during the process of manufacturing. Hino Motors is aiming to further reduce its environmental load by employing the Eco-Vehicle Assessment System (Eco-VAS*), an environmental product management system that incorporates a lifecycle approach during product development.

*Eco-VAS is a framework for setting targets to reduce the environmental burden from the products from the early vehicle development stage and for making steady reduction of environmental burden based on LCA methods.

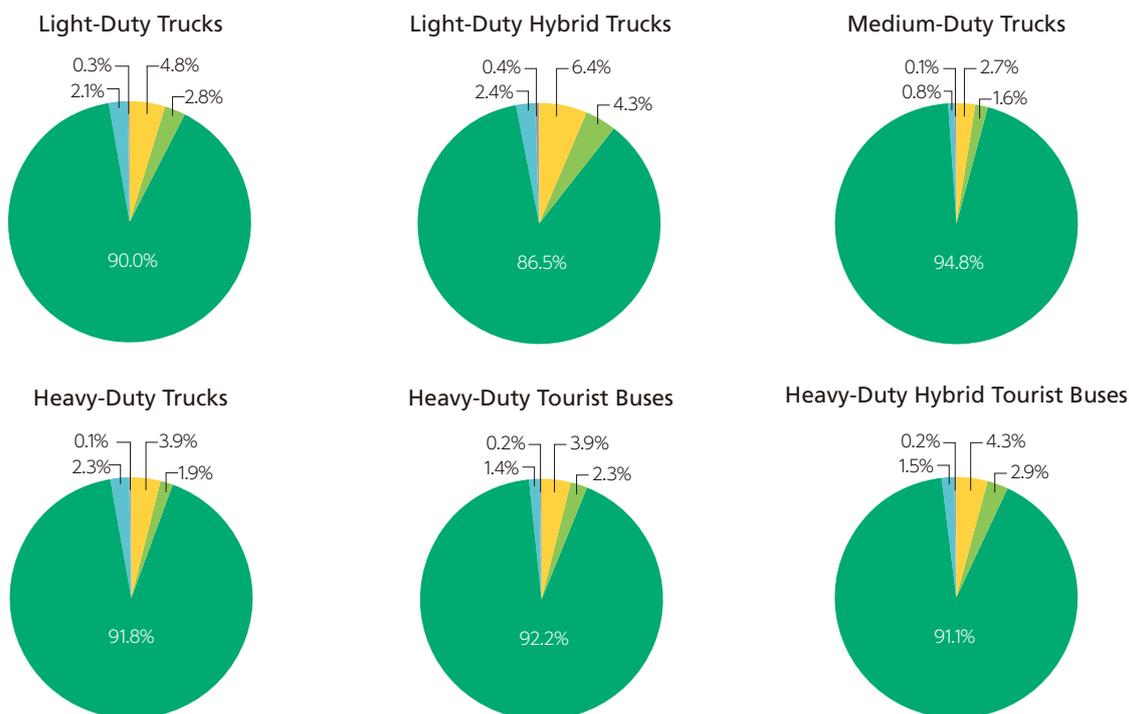


◆ LCA Initiative

Life Cycle Assessment (LCA) is an analysis method that quantitatively measures environmental impact throughout the life cycle of products such as trucks and other vehicles, from manufacturing to use and eventual disposal. Hino Motors has been employing LCA since 2008 to track CO₂ emissions over the life cycle of its truck and bus models. The results for each type of vehicle are shown in the charts below.

● Lifecycle CO₂ of each model

Producing raw materials Manufacturing vehicles During driving
 During maintenance At disposal



*The graphs are results computed by Hino's proprietary calculation conditions, and may not reflect actual emissions measurements. Fuel efficiency uses the heavy-duty vehicle mode's fuel-efficiency value. Evaluation results show the entire lifecycle of each as a percentage of 100%

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Reducing CO₂ Emissions in Distribution Operations Logistics

◆ Initiatives to reduce CO₂ emissions from distribution

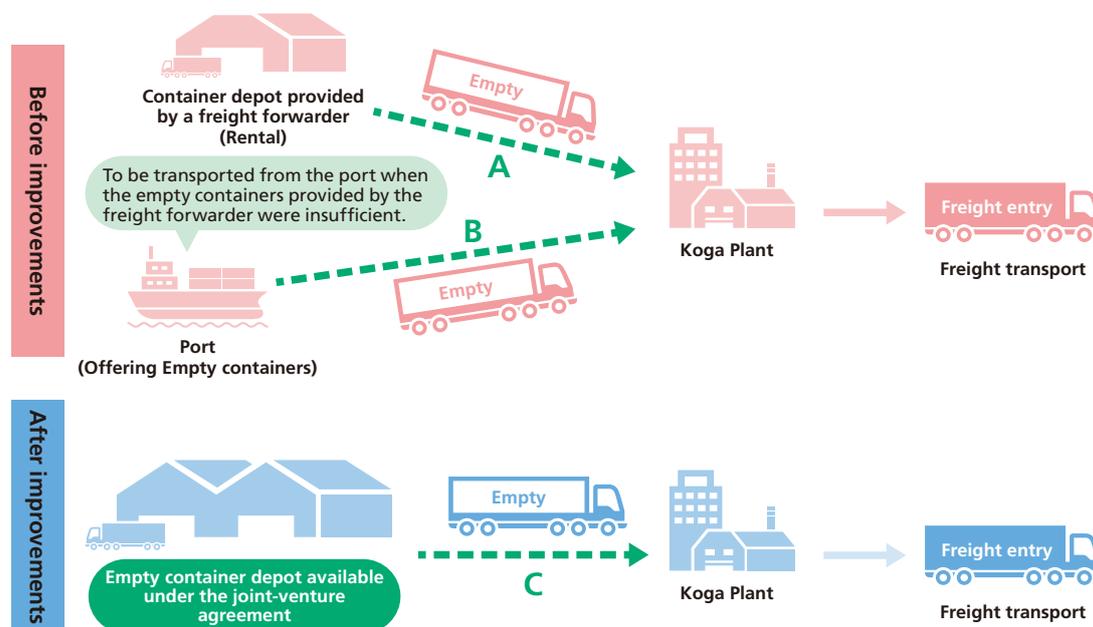
Under the guidance of the Logistics Improvement Council, Hino Motors is carrying out the following initiatives aimed at reducing CO₂ emissions from distribution-related operations:

1. Improving loading rates by integrating transportation routes and conducting joint shipments
2. Shortening transportation distances by packaging at the point of production to enable direct shipments
3. Increasing shipment volume using vehicles with higher tonnage (load volume) and utilizing different types of vehicles such as trailers
4. Promoting a modal shift to ships and other forms of transportation

Example | Improving CO₂ Emissions by effectively using other companies' containers

We used to take empty containers from a container depot provided by a freight forwarder for the freight transport from the Koga Plant, but additional containers had to be transported from a port far away from the plant when empty containers were insufficient.

However, empty container transportation needs decreased and CO₂ Emissions were reduced by 31.6 tons per year since we started taking empty containers from the empty container depot that is close to the Koga Plant. These new logistics became available under a joint-venture agreement.



Distance to the Koga Plant **B > A > C** → **CO₂ Emissions reduced by 31.6 tons per year due to decreased empty container transportation**

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Eco-Driving Support Logistics

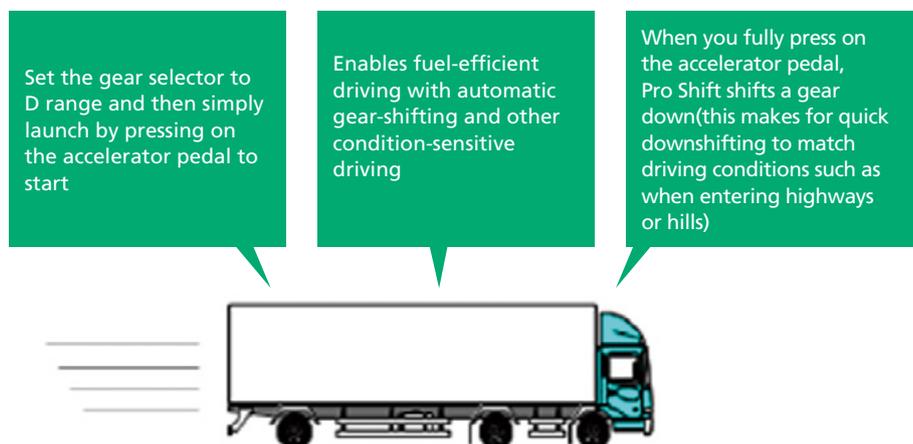
Hino Motors will continue to support customers' eco-driving capacities as it strives to remain a company trusted worldwide.

◆ Pro Shift (mechanical automatic transmission): Support for gear shifting

To support eco-driving, the engine has to stay in the rpm range best suited to each situation by changing gears in a suitable manner.

Pro Shift shifts gears automatically to ensure that the truck stays in the green zone on the fuel economy meter. This enables even truck drivers with little experience to drive like good eco-driving professionals.

● Example of main features of Pro Shift



◆ Eco-driving Seminars for Overseas Customers

Hino Motors holds "Eco-driving" classes in Japan and overseas as a part of its endeavors to contribute to the environment and customers. In fiscal 2020, a total of 11,780 students (171 in Japan and 11,609 in 28 countries overseas) took these classes. The classes are popular because students can learn eco-friendly driving and they improve corporate profitability.

As of March 2021, the Customer Technical Center in the Hamura Plant had welcomed a total of 101,000 visitors since it was established in 2005.

Overseas, the Hino Total Support Customer Center (HTSCC) at Hino Motors Sales (Malaysia) Sdn. Bhd. completely renovated its facility in 2017 to enable visitors to experience various driving conditions in response to the increasing number of visitors and to meet the varied demands of customers.



Hino Total Support Customer Center in Malaysia



Educational training (Above photo is taken before the COVID-19 pandemic)

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◆ Hino Eco Tree Report

In order to provide eco-driving support to customers, Hino Motors products feature an “Eco Tree” display function. A tree icon grows more leaves as the level of eco-driving increases.

Furthermore, by providing complementary Eco Tree reports that contain automated analysis of each individual customer’s driving status and serve as a useful source of information for eco-driving and drive management, Hino Motors supports customers in terms of environmental awareness.

Standard feature for Profia, Ranger, and S'elega models released in 2010 and later (exhaust emission symbols LKG and LDG onward). Standard feature for Dutro Hybrid models released in 2014 and later.



Eco Tree



Eco Tree Report

◆ Customer Assistance Programs

In collaboration with its dealers in Japan, Hino Motors carries out customer assistance programs that go beyond the scope of selling Hino vehicles. Hino Motors believes in providing total support that maintains a strong, long-term relationship with customers. The Company not only utilizes knowledge linked to fuel efficiency and environmental measures such as driving methods, it also contemplates customer troubles and supports problem-solving while utilizing the expertise of each company, including ensuring safety and fostering human resources.



A scene from training programs for customers (Above photo is taken before the COVID-19 pandemic)

Propose improvements based on Hino Eco Tree Report utilization



Reveal driving condition details unknown to the digital tachograph and propose safety and fuel efficiency improvements

Eco-driving Seminars



Learn practical driving skills and gain a better understanding about how to improve fuel efficiency

Guidance on subsidies and financing of low-emission vehicles



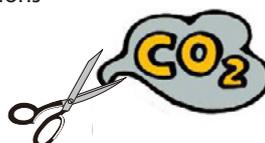
Guidance on various subsidy and financing programs when considering the purchase of a vehicle

Assistance in obtaining green management certification



Suggestions on obtaining certification as a means of calling attention to one's approach to environmental initiatives and assistance in obtaining certification

Assistance in reducing CO₂ emissions



Advice provided on CO₂ reduction (vehicle selection, eco-driving, and transportation efficiency)

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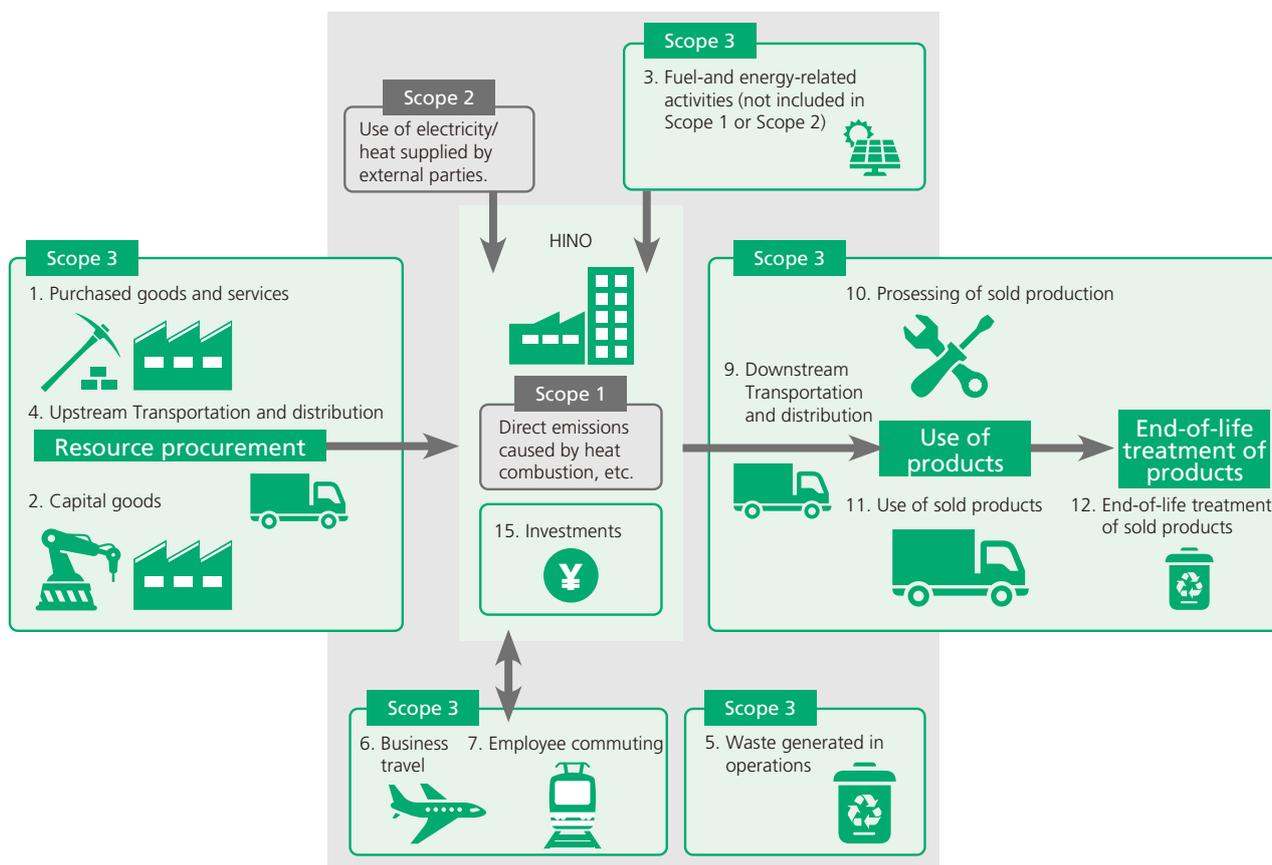
Handling Scope 3 Emissions

[At Materials manufacturing stage](#) [At the Distribution stage](#) [At the Disposal and recycling stage](#)

Companies are expected to calculate and disclose the greenhouse gas (GHG) emitted along the entire supply chain. Hino Motors calculates Scope 3 emissions, as well as Scope 1 and 2 emissions, based on GHG reporting guidelines and estimates are calculated from reported or derived values and available data. Actual emissions may vary.

Ratios of calculated emissions show that the combined percentages for Category 1 (Purchased Products and Services), Category 10 (Processing of Products Sold), and Category 11 (Use of Products Sold) account for approximately 99% of the total, with the remaining categories accounting for less than 1% each. Hino Motors will continue to strengthen management of CO₂ emissions along its entire supply chain, while also focusing on CO₂ reduction activities.

	Category	Emissions (1,000 t-CO ₂)
Scope 1	Direct emissions caused by heat combustion, etc.	120
Scope 2	Use of electricity/heat supplied by external parties.	180
Scope 3	1. Purchased goods and services	1,780
	2. Capital goods	150
	3. Fuel-and energy-related activities (not included in Scope 1 or Scope 2)	60
	4. Upstream Transportation and distribution	10
	5. Waste generated in operations	10
	6. Business travel	10
	7. Employee commuting	20
	8. Upstream leased assets	0
	9. Downstream Transportation and distribution	10
	10. Processing of sold production	770
	11. Use of sold products	37,770
	12. End-of-life treatment of sold products	50
	13. Downstream leased assets	0
	14. Franchises	0
	15. Investments	20



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Green Purchasing Guidelines

To further promote environmental initiatives associated with business activities, in 2021 Hino Motors revised the Green Purchasing Guidelines on environmental endeavors for its business partners, based on the Hino Environmental Challenge 2050 and Hino Environmental Milestone 2030. The guidelines have been provided to clients in various countries worldwide.

Going forward, the Company will strengthen environmental endeavors throughout the supply chain and earnestly take action.

[HINO's Green Purchasing Guidelines \(all pages\) are here](#)



Green Purchasing Guidelines