




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




2025 Environmental Initiative Plan

Major Item	Initiative	Action plan, targets, etc.	
6 Environmental Challenges	Life Cycle Zero CO₂ Emissions Challenge 	Target: Reduced 12% (per unit transportation volume*) compared to FY2013 *CO ₂ emissions during transport per kilometer for a 1-ton load or per kilometer for 1 person	
		Reduce CO ₂ emissions in all processes: manufacturing, transport, use, disposal (collaborate with each country and industry)	
		<ul style="list-style-type: none"> Manufacturing (materials, components, fuel manufacturing) <ul style="list-style-type: none"> ...Initiatives for plant-related CO₂ in vehicle production <ul style="list-style-type: none"> Reduce amount of materials used and number of components Develop and expand use of low-CO₂ materials Expand use of recycling materials Implement reduction activities conducted with cooperation from stakeholders, including suppliers Implement activities to spread renewable energy and green hydrogen in collaboration with governments in each country and the fuel industry Transport (components distribution) <ul style="list-style-type: none"> Reassess distribution between plants and transport routes for completed vehicle and improve shipping efficiency Improve efficiency by using tractor-trailers and conduct a modal shift Improve efficiency of vehicle components shipments Use ...Initiatives for new vehicle CO₂ Disposal (including maintenance) <ul style="list-style-type: none"> Reduce CO₂ by using LED lights, and HEV and BEV as company cars at sales companies Introduce renewable energy power facilities at sales companies and purchase renewable energy Implement environmentally conscientious design (easy-to-disassemble, easy-to-recycle designs) 	
	New Vehicle Zero CO₂ Emissions Challenge 	Target: Reduced 15% (per unit transportation volume) compared to FY2013	
		Develop and bring electric vehicles to market	<ul style="list-style-type: none"> Conduct technical development of electric vehicles and bring to market <ul style="list-style-type: none"> FCEV: Develop FCEV and run verification tests for heavy-duty FCEV trucks, etc. BEV: Develop BEV and bring to market the Hino Dutro Z EV (light-duty BEV truck), Hino Poncho Z EV (light-duty BEV bus), etc.
		Improve diesel consumption	<ul style="list-style-type: none"> Conduct technological development to comply with new fuel economy standards in each country and bring to market <ul style="list-style-type: none"> Japan: Conduct technological development to comply with JH25 and bring to market United States: Conduct technological development to comply with EPA and CARB2024 and bring to market Europe: Promote development of technologies to improve fuel efficiency to meet the next round of regulations Promote research on technologies for alternative fuels <ul style="list-style-type: none"> Develop technologies for carbon neutral fuels
		Initiatives for improved transport efficiency	<ul style="list-style-type: none"> Maximize transport efficiency in the logistics industry <ul style="list-style-type: none"> Improve shipping efficiency by mixing various loads that exceed industry types Achieve mass transport by utilizing double trailer-trucks Improve distribution efficiency by utilizing information on vehicles, loads, and drivers
	Factory Zero CO₂ Emissions Challenge 	Target: Reduced 30% (total global emissions) compared to FY2013	
		Introduce innovative technologies	<ul style="list-style-type: none"> Introduce new low-carbon technologies when upgrading and for new vehicle types <ul style="list-style-type: none"> Ex.: Airless painting, dry booth, etc. Research new technology trends outside the company and consider introducing
		Promote daily improvements	<ul style="list-style-type: none"> Maximize CO₂ emissions reduction through repeated, daily improvements <ul style="list-style-type: none"> Ex.: Shorten work hours, concentrate equipment, consolidate processes, etc. Reduce CO₂ by introducing high-efficiency equipment <ul style="list-style-type: none"> Ex.: LED lights, motors, air conditioning, etc.
	Introduce renewable energy	<ul style="list-style-type: none"> Accelerate solar panel installation on company grounds (onsite) Shift to optimal renewable energy power (solar and hydroelectric power generation) that considers the power circumstances in each country and region 	

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6 Environmental Challenges	Challenge of Minimizing and Optimizing Water Usage 	Target: Implement initiatives for efficiently reducing water usage (all plants worldwide)	
		Use small amounts of water <ul style="list-style-type: none"> ● Actively introduce new water-saving technologies, such as a dry booth for painting ● Promote water conservation through daily improvements such as repairing water leaks, and optimizing water sprinkling and shower volume ● Conduct water usage risk assessment and water reduction activities that consider water supply conditions in each country and region 	
		Return purified water to nature <ul style="list-style-type: none"> ● Conduct wastewater risks assessment at each site in each country 	
	Challenge of Achieving Zero Waste 	Target: Reduced 12% (total global emissions) compared to FY2018	
		Reduce to reach zero waste <ul style="list-style-type: none"> ● Considering the introduction of innovative new technology Ex.: Waste sand recycling equipment, waste-to-fuel conversion equipment, etc. ● Promote activities for daily improvements Ex.: Measures for managing waste sources by improving yield rates, reducing evaporation, etc. ● Reduce waste by recovering valuable materials and recycling 	
		Use resources from discarded vehicles in newly manufactured vehicles (Car to car) <ul style="list-style-type: none"> ● Develop collection technologies for rare metals and natural resources ● Develop technologies for improving recycling ratio 	
		Reduce packaging materials <ul style="list-style-type: none"> ● Improve packaging methods to reduce usage and expand returnables ● Switch to plastic alternatives in packaging materials Target: In consolidated companies in Japan, packaging material per unit of volume that is below FY2018	
	Challenge of Minimizing the Impact on Biodiversity 	Target: Establish 2 model factories that coexist in harmony with nature	
		Create factories that conserve greenery and water, and coexist in harmony with nature <ul style="list-style-type: none"> ● Plant trees inside and outside office grounds that aim to conserve greenery and water, secure rare species, and promote river cleanup activities ● Promote conservation activities that employees and local schools, etc. tackle together Ex.: Employee education, environmental classes with nearby schools, etc. 	

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Compliance with laws and regulations	Air	Take measures to prevent air pollution in products <ul style="list-style-type: none"> Comply with legal standards for gas emissions in products such as NOx, PM, VOC, etc. Introduce vehicles with lower gas emissions to help improve air quality in each country and region <ul style="list-style-type: none"> Japan: Bring vehicles to market that comply with the Future Policy for Motor Vehicle Emission Reduction (Fourteenth Report) (PN standards) United States: Bring vehicles to market that comply with EPA and CARB 2024 General: Promote introduction of low-emission vehicles (EURO 4, 5 or 6 level) Promote R&D to meet the next round of regulations, etc.
		Take measures to prevent air pollution in production <ul style="list-style-type: none"> Comply with legal standards for gas emissions in equipment such as NOx, PM, VOC, etc. Reduce VOC emissions by improving painting efficiency and collecting thinner in the painting process Target: Emissions volume per unit area that is below FY2018
	Water quality / Soil quality	Manage wastewater and prevent underground seepage in production <ul style="list-style-type: none"> Establish independent standard values for wastewater and improve wastewater quality through very frequent monitoring
		Prevent the spread of pollution during modifications and land transactions <ul style="list-style-type: none"> Confirm based on regulations when buying new land, selling, and leasing Ascertain degree of contamination when modifying land on property and issue report
	Noise / Vibrations	Reduce noise and vibrations in products <ul style="list-style-type: none"> Comply with vehicle noise laws in each country and region
		Reduce noise and vibrations in production <ul style="list-style-type: none"> Reduce noise and vibrations of plant equipment and on property borders, and implement initiatives to comply with standards Conduct review in advance when purchasing new plants and equipment, and confirm outcomes after purchase
	Waste materials	Properly manage waste materials <ul style="list-style-type: none"> Conclude contracts for general waste and industrial waste, and appropriately outsource disposal
	Chemical substances	Manage chemical substances and reduce hazardous substances in products <ul style="list-style-type: none"> Implement total management through data on chemical substances contained in products Implement solid transition for regulated substances used in materials and components
		Manage chemical substances and reduce hazardous substances in production <ul style="list-style-type: none"> Manage prohibited substances in subsidiary and secondary materials used at production plants Reduce use of subsidiary and auxiliary materials, and reduce environmental load by switching to alternatives
	Accident prevention	Prevent environmental accidents (zero violations and complaints, defects and reports) <ul style="list-style-type: none"> Spread throughout plants and offices in the Hino Group by analyzing causes of past incidents Standardize work handling liquids, etc. by creating environmentally responsible human resources
Management	Promote the creation of environmentally responsible human resources <ul style="list-style-type: none"> Make rules for environmentally responsible human resources and roll out at each plant Implement environmental education for employees at each level and promote human resource cultivation Systematically implement awareness-raising activities 	