

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! 3 Factory with Zero CO<sub>2</sub> Emissions

### Daily Improvement Initiatives

Daily improvement

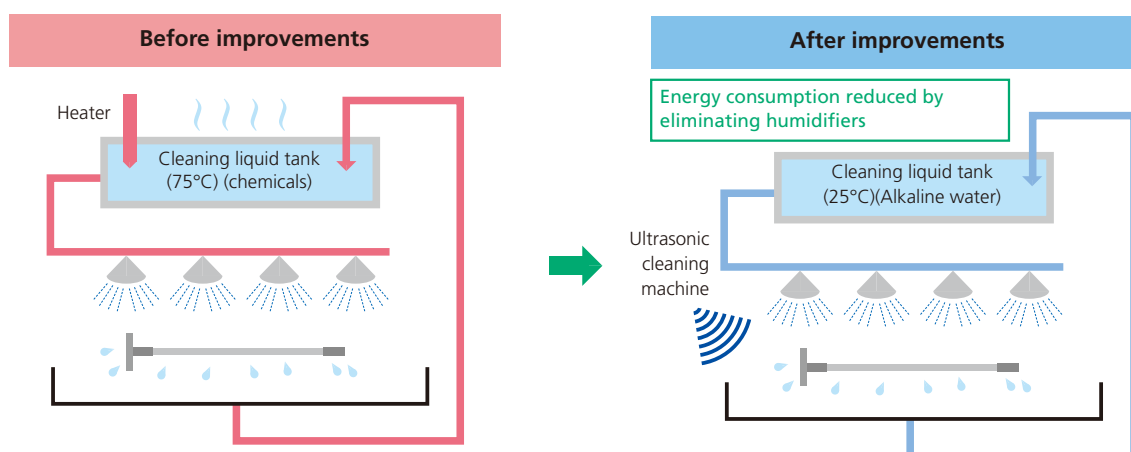
Recognizing climate change as one of the major challenges facing humanity, Hino Motors is working hard to reduce CO<sub>2</sub> emissions. In its continuing endeavors to reduce CO<sub>2</sub> emissions, the Company is carrying out regular activities with the participation of all employees to improve efficiency at all of its production sites, while also striving to reduce wasted energy. Based on the Hino Environmental Challenge 2050, a long-term environmental vision formulated in fiscal 2017, in fiscal 2020, Hino Motors continued to implement a wide range of daily energy-saving activities including the Factory Zero CO<sub>2</sub> Emissions Challenge aiming to completely eliminate CO<sub>2</sub> emissions due to production activities.

#### Major Initiatives

- Adopting electric booster pump systems
- Replacing fluorescent lighting with LEDs
- Applying thermal insulation paint to furnaces (see below)
- Switching to electric transport vehicles inside plants

#### Example | Using room-temperature rinse water by installing an ultrasonic cleaning machine

A parts washer is used during the machining process to clean off oil and other debris that adhere to products. Until now, this was done by heating a cleaning agent containing chemicals, but an ultrasonic cleaning machine was installed that can achieve the same cleaning effect using room-temperature rinse water (alkaline water). This resulted in reducing CO<sub>2</sub> emissions from the heater that had been used to heat water by 5.7 t-CO<sub>2</sub> per unit, while simultaneously eliminating use of a cleaning agent containing chemicals.



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## Initiatives Related Renewable Energy

### Renewable Energy

Hino Motors is installing solar power equipment as an initiative to make use of renewable energy. Electricity generated by the equipment is used for production activities, lighting inside its factories and offices, as well as outside lights on the premises. In the future, Hino Motors plans to pursue initiatives that not only save energy at its existing business facilities but also incorporate the broader perspective of combating climate change.



Solar panels installed at the Nitta Plant around 160 kW

### Example | Hino Motors Manufacturing Thailand: Solar power generation panels installed on roof of its plant

Solar power generation panels with an output of approximately 500 kW were newly installed on the roof of the Plant 3 of the Hino Motors Manufacturing Thailand. The generated electric power is being used for production activities, the office, and streetlights on the premises. In the future, the Company will not only improve the energy conservation of existing facilities, but also work to reduce CO<sub>2</sub> while incorporating renewable energy.



Solar power generation panels installed on the plant roof

### Example | Purchasing electricity produced by hydroelectric power generation

Meiyu Kiko Co., Ltd., a consolidated subsidiary of Hino Motors, concluded a contract for the “Furusato Hydropower Plan” offered by Yamanashi Power Plus, which is a power supply brand jointly operated by Yamanashi Prefecture and TEPCO Energy Partner, Incorporated.

The plan provides electric power generated at a hydropower plant operated by Yamanashi Prefecture that does not emit CO<sub>2</sub>. The electric power will be used by two sites, the Meiyu Kiko Head Office and the Isawa Office. Converting this into plant CO<sub>2</sub> emissions based on fiscal 2018 performance results in an annual reduction of approximately 260 tons, which is around 89% of overall plant CO<sub>2</sub> emissions.

Meiyu Kiko was named an environmentally friendly company by the governor of Yamanashi Prefecture to enable a portion of electricity charges to be used for programs such as environmental conservation projects in Yamanashi Prefecture. In addition, utilization has continued with the renewal of the contract in fiscal 2020.

Going forward, the company aims to motorize forklifts and reduce other fuel consumption to further curtail CO<sub>2</sub> in order to promote activities for “Factory with Zero CO<sub>2</sub> Emissions” that was announced in the Hino Environmental Challenge 2050.



Receiving the award

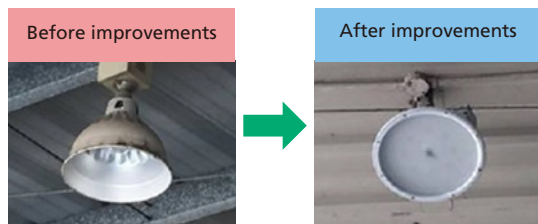
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**Example | Using LED lights for plant lighting**

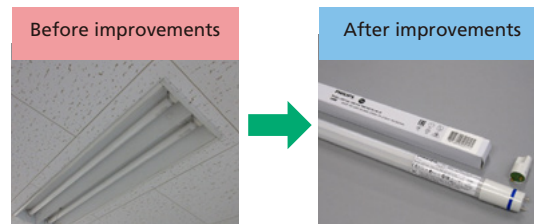
The switch to LED lights is actively being moved forward in each country.

● Hino Motors Vietnam



Reduced by  
**1.5**  
t-CO<sub>2</sub>/year

● Hino Motors Manufacturing (Thailand)



Reduced by  
**5.7**  
t-CO<sub>2</sub>/year