# Data collection of Environmental Report in fiscal year 2008

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- Environmental Activities at Plants and Data based on Environment-Related Laws and Regulations
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  □The Americas／□Thailand／□Indonesia／□Pakistan／□Shanghai, China
- Acquisition of ISO and EMD Certification by Hino Motors Group
- FY2008 Major Environmental Data of Hino Motors Group Production Facility

## ■Acquisition of ISO 14001 Certification

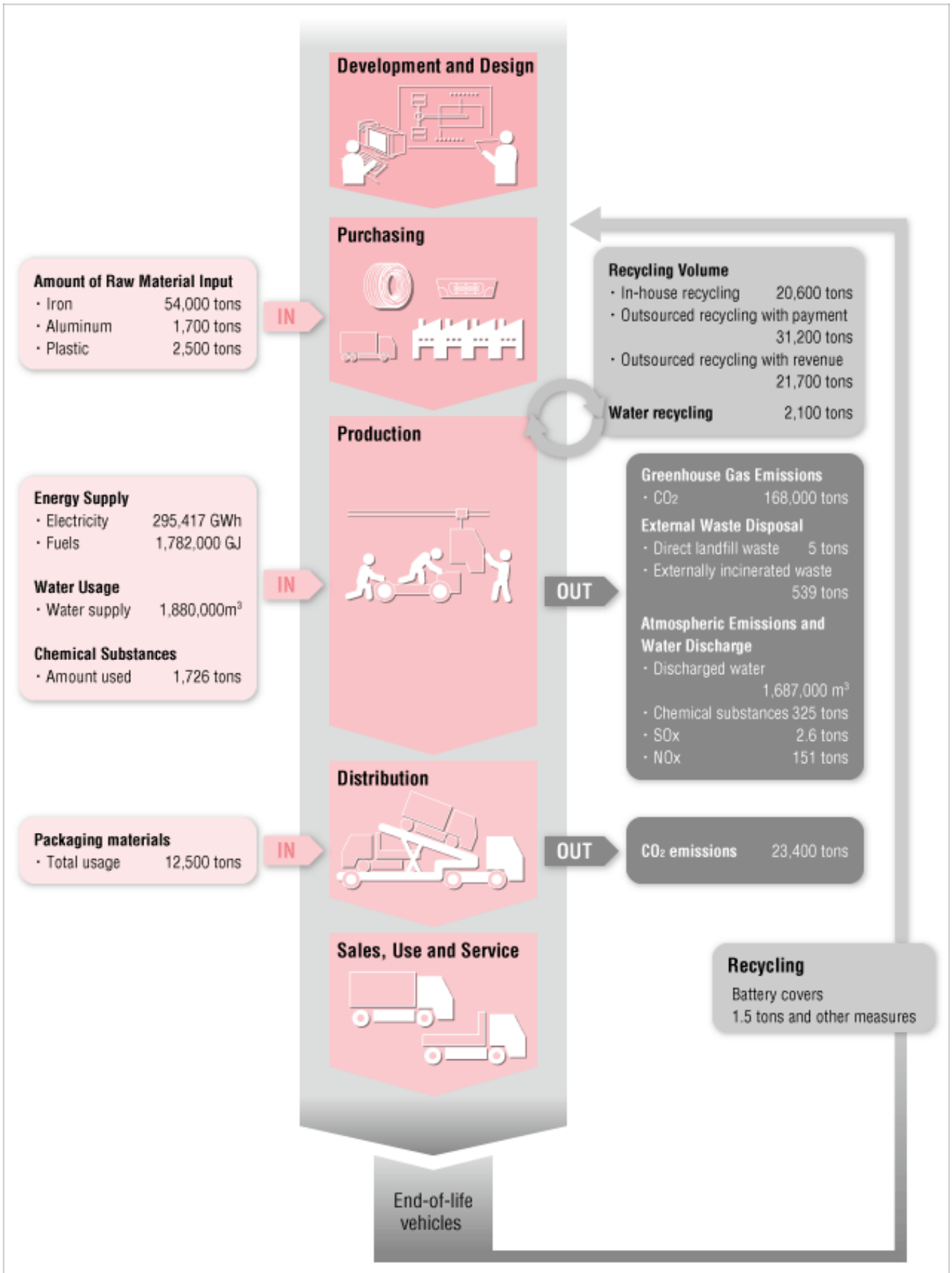
| Organization/Entity | Function | Date of acquisition |
|---|---|---|
| Headquarters & Hino Plant | Manufacturing, product development, production engineering, headquarters and overseas operations* | March 24, 2001 |
| Hamura Plant | Manufacturing | March 10, 1999 |
| Nitta Plant | Manufacturing | March 27, 2000 |
| Oume Parts Center | Parts distribution | January 11, 2002 |
| Hidaka Delivery Center | Vehicle distribution | January 11, 2002 |
| Tamachi Office | Domestic operations | April 25, 2003 |

## ■Fiscal 2008 Audit Results

(Unit: Number of instances)

| Office/Entity | Type of Audit | Major Non-Conformance | Minor Non-Conformance | Observations |
|---|---|---|---|---|
| Headquarters & Hino Plant | Surveillance | 0 | 0 | 3 |
| Hamura Plant | Surveillance | 0 | 0 | 3 |
| Nitta Plant | Renewal audit | 0 | 1 | 3 |
| Oume Parts Center/Hidaka Delivery Center | Surveillance | 0 | 0 | 3 |
| Tamachi Office | Renewal audit | 0 | 0 | 4 |

## ■Hino Motors' Business Activities and Their Environmental Impact in Fiscal 2008




■ **Participants in Environment-Related Educational Programs in Fiscal 2008**

| Program | Number of participants |
|---|---|
| New employee introductory training | 470 |
| Manager training | 127 |
| Newly appointed manager training | 57 |

## ■Environmental Conservation Costs

Unit: millions of yen (- indicates less than one million yen)

| Environmental Conservation Costs | | FY2008 Results | | FY2007 Results | | Difference between years | |
|---|---|---|---|---|---|---|---|
| Item | Description of major initiatives | Investments | Costs | Investments | Costs | Investments | Costs |
| (1) Costs in operational areas | | 137 | 707 | 33 | 740 | 104 | -32 |
| 1) Pollution prevention costs | Costs for the prevention of air, water, and other pollution | 106 | 374 | 25 | 381 | 81 | -8 |
| 2) Global environmental conservation costs | Costs of energy conservation facilities and global environmental conservation | 31 | 7 | 7 | 5 | 24 | 2 |
| 3) Resource recycling Costs | Costs of resource recycling waste treatment, etc. | 0 | 326 | 1 | 354 | -1 | -28 |
| (2) Upstream and downstream costs | Additional costs for reducing environmental load | 0 | 112 | 0 | 131 | 0 | -19 |
| (3) Management activity costs | Costs for monitoring and measuring environmental load | 0 | 418 | 0 | 404 | 0 | 14 |
| (4) Research & development costs | Costs of research and development for reducing environmental load | 0 | 22,221 | 0 | 23,858 | 0 | -1,637 |
| (5) Social activity costs | | 0 | 4 | 0 | 5 | 0 | -1 |
| (6) Environmental remediation costs | | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 137 | 23,463 | 33 | 25,138 | 104 | -1,675 |

Results of Environmental Conservation

### (1) Economic results

Unit: millions of yen (- indicates less than one million yen)

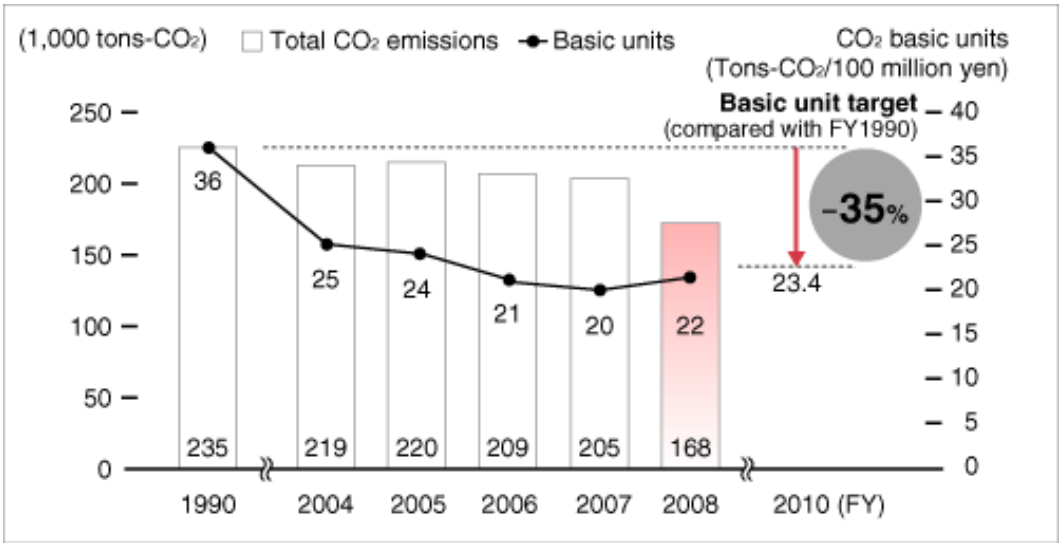
| | Details of results | FY2008 | FY2007 |
|---|---|---|---|
| | | | |

| | | | |
|---|---|---|---|
| Profits | Operational income from recycling | 1,338 | 1,440 |
| Reduced costs | Reduction in energy costs due to energy conservation | 1 | 6 |
| | Reduction in waste treatment costs due to resource conservation and recycling | 0 | 2 |
| Total | | 1,339 | 1,448 |

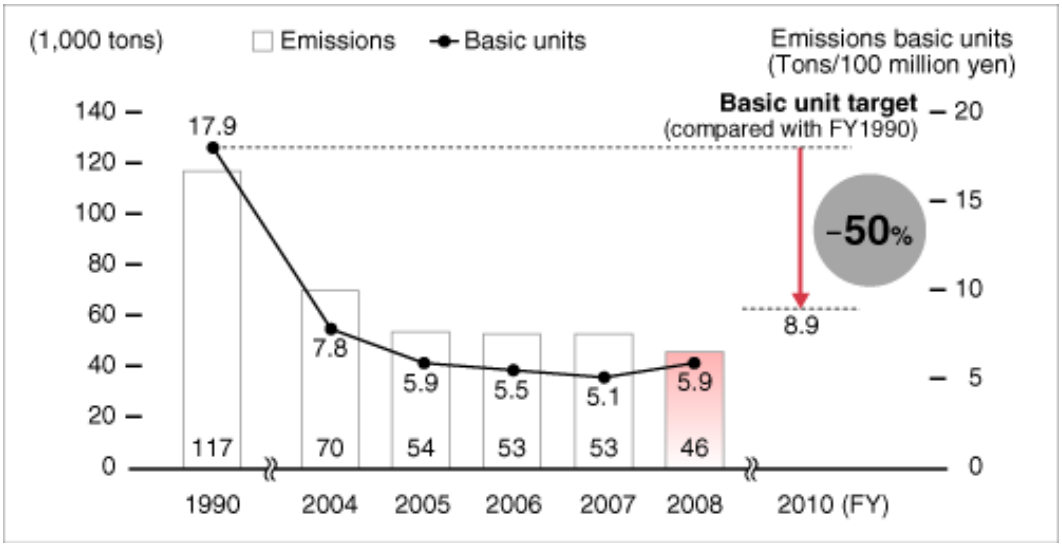
### (2) Reductions from distribution

| Item | FY2008 | FY2007 |
|---|---|---|
| $CO_2$ reduction (tons-$CO_2$) | 26 | 211 |
| Waste reduction (tons) | - | 95 |

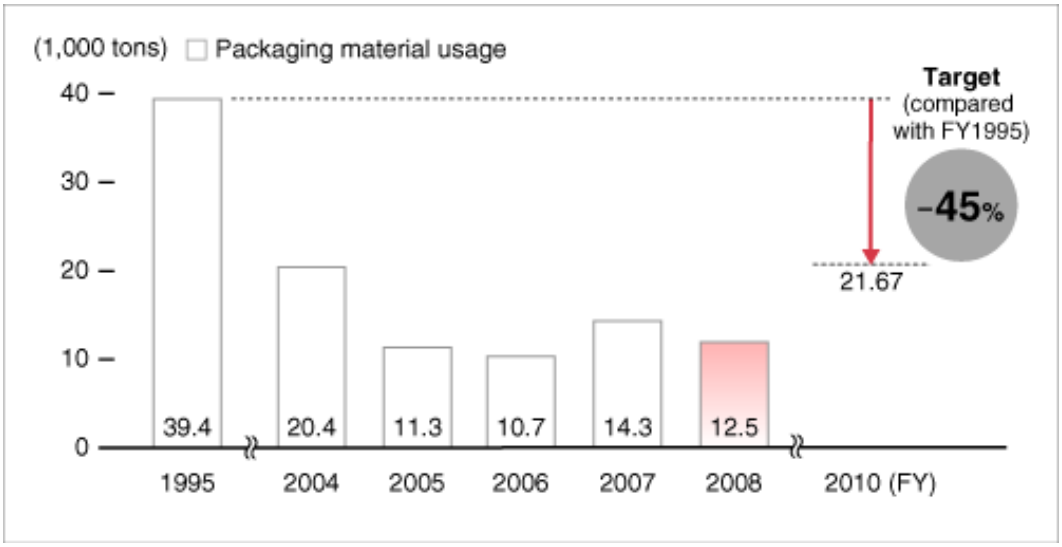
### ■Total $CO_2$ emissions and basic units



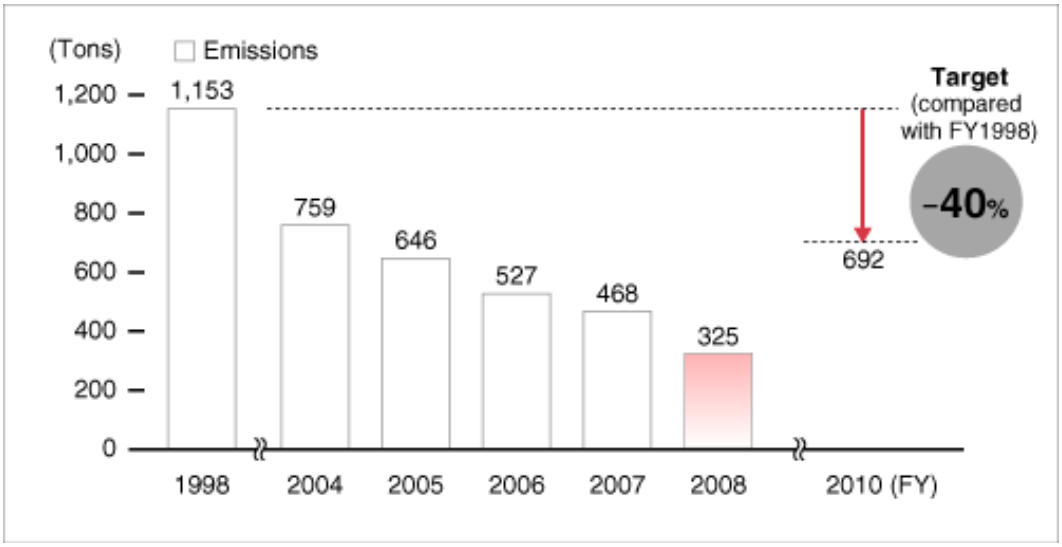

### ■Emission volume



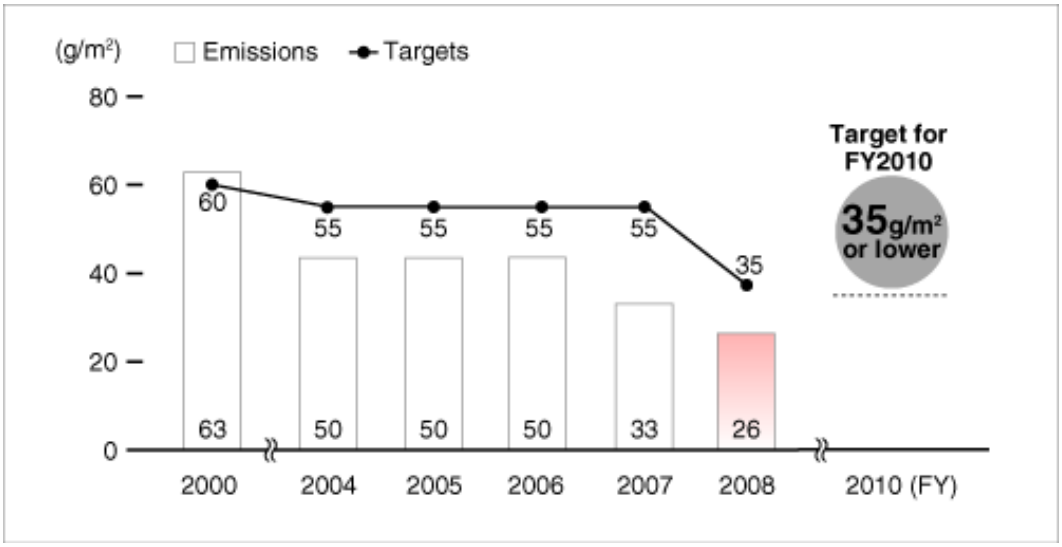

### ■Total amount of packaging material usage




■ **Emissions of substances subject to the Pollutant Release and Transfer Register Law of Japan**




■**Volatile organic compound (VOC) emissions from the Hamura Plant**




■**Measured trichloroethylene levels in drinking water**
(Environmental limits: 0.03 mg/l)

| Location | FY2008 level |
|---|---|
| Headquarters and the Hino Plant | ND-0.055 mg/l |
| Hamura Plant | ND~0.143 mg/l |

| | |
|---|---|
| Nitta Plant | Less than 0.0005-0.001 mg/l |

Note: Ongoing purification measures are in progress.

## ■Environmental Activities at Plants and Data based on Environment-Related Laws and Regulations

### Headquarters / Hino Plant

Acquisition of ISO 14001 certification:
March 24, 2001

**Tsunehiko Fujii**
Environment Management Coordinator
Headquarters & Hino Plant

#### Plant overview

| | |
|---|---|
| **Address:** | 1-1, Hinodai 3-chome, Hino-shi, Tokyo |
| **Major products:** | Heavy-duty trucks (Hino Profia)<br>Medium-duty trucks (Hino Ranger) |
| **Employees:** | 5,500 |
| **Site area:** | 447,081 $m^2$ |
| **Total floor space:** | 405,097 $m^2$ |

#### Environmental Policies

1.Harmonious coexistence with society and the environment
2.Continuous improvements and prevention of environmental pollution
3.Compliance with laws and regulations
4.*Mottainai* mindset is the basis for all activities
5.Enhancement of individual environmental awareness

**Through Each Plant Hino Motors Strives to Manufacture Quality Vehicles and Support Transportation that Is Friendly to the Earth and People**

At our Headquarters & Hino Plant, we are actively establishing varied and diverse targets that set the direction for our environmental initiatives. In diligently working to achieve these goals, Hino Motors is endeavoring to minimize the environmental load created by both production and distribution processes. Based on these activities, we recognize that continuing efforts to supply products with leading environmental performance to society lie at the heart of our corporate social responsibility. As a result, we constantly review and work to lower the environmental load of every function of our business from development to purchasing, production, preparation, and office management. In this manner, our ultimate goal is to harmoniously coexist with the global environment. Furthermore, in addition to the *mottainai* mindset held by each employee, which in Japanese conveys an attitude of preventing waste, we make efforts to eliminate *muda*, *mura*, and *muri* (unprofitable, unsteady and unreasonable, respectively) in our energy-saving and resource-saving activities while at the same time engaging in activities aimed at protecting the natural environment.

Located in close proximity to a residential area, the Hino Plant makes every effort not to disturb or comprise the lives of its neighbors. As a result, we strictly adhere to measures that minimize noise, vibration, and odor. Looking ahead, we will continue to manufacture quality vehicles and support transportation that is friendly to the earth and people.

#### ■ Award Record

FY2003 Winner of the Highest Award presented by the Chairperson of the Electric Safety Kanto Committee
FY2005 Winner of the Highest Award presented by the Kanto Region Electricity Usage Rationalization Committee
FY2006 Winner of the Highest Award presented by the Kanto Region Electricity Usage Rationalization Committee
FY2007 Winner of the Highest Award for Electric Safety and Electricity Usage Rationalization
FY2008 Winner of the Highest Award for Electric Safety and Electricity Usage Rationalization
FY2008 Winner of the Highest Award presented by the Kanto Region Electricity Usage Rationalization Committee
FY2008 Winner of the Chairperson's Award presented by the High Pressure Gas Safety Institute of Japan

## Data Based on Environment-Related Laws and Regulations

### ■ Water Quality (Water Pollution Control Law and Prefectural Ordinances)

Effluent water quality analysis (river channel and discharge site: Tama River via Yaji River)

| Item | Regulatory limit | Max. | Min. | Avg. |
|---|---|---|---|---|
| Discharge volume ($m^3$/day) | - | 5,982 | 1,228 | 2,615 |
| pH | 5.8-8.6 | 7.4 | 6.9 | 7.1 |
| BOD (mg/l) | 20 | 2.6 | 0.8 | 1.3 |
| COD (mg/l) | NA | 13 | 4.5 | 8 |
| SS (mg/l) | 40 | 9 | 1 | 2.7 |
| N-hexane (mg/l) | 5 | ND | ND | ND |
| Total phosphorous (mg/l) | 2 | 0.9 | 0.1 | 0.5 |
| Total nitrogen (mg/l) | 20 | 14 | 2.5 | 8.7 |
| Zinc content (mg/l) | 2 | 0.1 | 0.03 | 0.06 |
| Fluorine compounds (mg/l) | 8 | 0.3 | 0.1 | 0.2 |

ND: Not Detected (Less than the minimum determined limit)

### ■ Air Quality (Air Pollution Control Law and Prefectural Ordinances)

| Equipment | Measured substance | Regulatory limit | Max. | Min. | Avg. |
|---|---|---|---|---|---|
| Boilers (processed natural gas) | NOx (ppm) | - | 47 | 27 | 36 |
| | Soot and dust ($g/Nm^3$) | - | 0.002 | ND | 0.001 |
| Gas carburizing furnace #1 (processed natural gas) | NOx (ppm) | 180 | 127 | 80 | 98 |
| | Soot and dust ($g/Nm^3$) | 0.2 | 0.02 | ND | 0.01 |

ND: Not Detected (Less than the minimum determined limit)

### ■ Chemical Substances (PRTR Law)

(Unit: tons/year)

| Cabinet Order No. | Class I Designated Chemical Substances | Volume handled[1] | Volume discharged | | Volume transferred | | Volume recycled | Volume removed/ disposed[2] | Volume consumed[3] |
|---|---|---|---|---|---|---|---|---|---|
| | | | Air | Water | Waste | Public sewer system | | | |
| 1 | Water-soluble zinc compound | 2.9 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 2.0 |
| 30 | Bisphenol A-type epoxy resin (liquid) | 2.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 1.8 |
| 40 | Ethylbenzene | 16.9 | 10.1 | 0.0 | 0.0 | 0.0 | 2.6 | 2.3 | 1.8 |
| 43 | Ethylene glycol | 391.9 | 0.0 | 0.0 | 8.1 | 0.0 | 0.0 | 0.0 | 383.8 |
| 63 | Xylene | 47.1 | 26.7 | 0.0 | 0.0 | 0.0 | 6.1 | 6.1 | 8.2 |
| 177 | Styrene | 11.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.8 |
| 224 | 1,3,5-trimethylbenzene | 5.6 | 2.3 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 |
| 227 | Toluene | 29.5 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 12.9 |
| 299 | Benzene | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | Manganese and its | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 311 | compounds | 1.8 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 1.4 |
| | Total | 510.2 | 50.0 | 0.0 | 9.5 | 0.0 | 12.0 | 14.9 | 423.7 |

- 1. Applies to volumes handled equal to one ton or more (or 500 kg or more in the case of Specified Class I Designated Chemical Substances)
- 2. Volume removed/disposed: Volume removed by incineration, decomposition or other treatment method
- 3. Volume consumed: Volume converted to other substances by chemical reaction or incorporated in or appended to products and removed from the premises

## Hamura Plant

Acquisition of ISO 14001 certification:
March 10, 1999

**Kazuharu Tanaka**
Environment Management Coordinator
Hamura Plant

### Plant overview

| | |
|---|---|
| **Address:** | 3-1-1 Midorigaoka, Hamura-shi, Tokyo |
| **Major products:** | Light-duty trucks |
| **Employees:** | 3,000 |
| **Site area:** | 750,770 $m^2$ |
| **Total floor space:** | 384,027 $m^2$ |

### Environmental Policies

1.Promotion of business activities in harmony with the natural environment
2.Effective utilization of limited resources
3.Development of a partnership with the local community

### Striving to Become an Eco-Friendly Plant

Based on an environmental policy of promoting business activities in harmony with nature, the Hamura Plant is working to continuously improve its environmental efforts with the aim of becoming an eco-friendly plant.

While complying with existing environmental laws, we are engaged in plant-wide improvement activities to achieve the goals set under our environment conservation plan. We are actively promoting energy-saving and resource-saving activities to effectively utilize limited resources. We are also developing smoother workflows by upgrading safety conditions and quality levels. As a result, we have reduced the environmental load of the plant as a whole. We will also actively interact with people in the local community, and establish a good partnership with the community.

### ■ Award Record

| | |
|---|---|
| October 2004 | Winner of the Chairperson's Award presented by the High Pressure Gas Safety Institute of Japan |
| February 2005 | Winner of the Director-General's Award presented by the Natural Resources and Energy Agency |
| November 2005 | Winner of the Prevention Manager's Award presented by the Tokyo Fire Department |
| February 2006 | Winner of the Highest Award presented by the Kanto Region Electricity Usage Rationalization Committee |
| July 2006 | Winner of the Champion's Award presented by the Firefighting Training Board |
| February 2007 | Winner of the Highest Award presented by the Kanto Region Electricity Usage Rationalization Committee |
| February 2008 | Winner of the Highest Award presented by the Kanto Region Electricity Usage Rationalization Committee |
| February 2008 | Winner of the Chairperson's Award presented by the Energy Conservation Center |
| February 2009 | Winner of the Ministry of Economy, Trade and Industry Minister's Award for Excellence in Plant Energy Management |

## Data Based on Environment-Related Laws and Regulations

### ■ Water Quality (Sewerage Law) and Effluent Water Quality Analysis (Sewer Effluent)

| Item | Regulatory limit | Max. | Min. | Avg. |
|---|---|---|---|---|
| Discharge volume ($m^3$/day) | - | 4,382 | 9 | 1,605 |
| pH | 5.7-8.7 | 7.3 | 6.7 | 7 |
| BOD (mg/l) | 300 | 10 | 1.5 | 3.8 |
| SS (mg/l) | 300 | 12 | 1 | 4 |
| N-hexane (mg/l) | 5 | ND | ND | ND |
| Total phosphorous (mg/l) | 16 | 11 | 0.2 | 1.8 |
| Total nitrogen (mg/l) | 120 | 18 | 2.3 | 5.9 |
| Zinc content (mg/l) | 2 | 0.3 | 0.2 | 0.3 |
| Fluorine compounds (mg/l) | 8 | 0.7 | 0.4 | 0.5 |

ND: Not Detected (Less than the minimum determined limit)

### ■ Air Quality (Air Pollution Control Law and Prefectural Ordinances)

| Equipment | Measured substance | Regulatory limit | Max. | Min. | Avg. |
|---|---|---|---|---|---|
| Cogeneration equipment (processed natural gas) | NOx (ppm) | 35 | 26 | 15 | 20.2 |
| | Soot and dust ($g/Nm^3$) | 0.05 | ND | ND | ND |
| Drying furnaces (processed natural gas) | NOx (ppm) | 250 | 40 | 5 | 10 |
| | Soot and dust ($g/Nm^3$) | 0.2 | 0.01 | ND | 0.003 |

ND: Not Detected (Less than the minimum determined limit)

### ■ Chemical Substances (PRTR Law)

(Unit: tons/year)

| Cabinet Order No. | Class I Designated Chemical Substances | Volume handled[1] | Volume discharged | | Volume transferred | | Volume recycled | Volume removed/ disposed[2] | Volume consumed[3] |
|---|---|---|---|---|---|---|---|---|---|
| | | | Air | Water | Waste | Public sewer system | | | |
| 1 | Water-soluble zinc compounds | 5.8 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 4.1 |
| 16 | 2-aminoethanol | 1.4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 1.2 | 0.1 |
| 30 | Bisphenol A epoxy resin (limited to its liquid form) | 5.6 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 4.8 |
| 40 | Ethylbenzene | 56.3 | 39.0 | 0.0 | 0.7 | 0.0 | 3.2 | 1.3 | 12.1 |
| 43 | Ethylene glycol | 571.8 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 571.2 |
| 44 | Ethylene glycol monoethyl ether | 7.9 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63 | Xylene | 147.8 | 79.1 | 0.0 | 1.3 | 0.0 | 7.4 | 4.5 | 55.5 |
| 101 | 2-ethoxyethyl acetate | 9.9 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 224 | 1, 3, 5-trimethylbenzene | 9.6 | 4.3 | 0.0 | 0.9 | 0.0 | 4.0 | 0.4 | 0.0 |
| 227 | Toluene | 157.1 | 68.5 | 0.0 | 0.3 | 0.0 | 0.0 | 1.7 | 86.6 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 232 | Nickel compounds | 1.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.4 |
| 299 | Benzene | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 |
| 311 | Manganese and its compounds | 9.6 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 9.0 |
| | Total | 990.1 | 208.6 | 0.0 | 7.5 | 0.1 | 14.6 | 9.1 | 750.2 |

- 1. Applies to volumes handled equal to one ton or more (or 500 kg or more in the case of Specified Class I Designated Chemical Substances)
- 2. Volume removed/disposed: Volume removed by incineration, decomposition or other treatment method
- 3. Volume consumed: Volume converted to other substances by chemical reaction or incorporated in or appended to products and removed from the premises

## Nitta Plant

Acquisition of ISO 14001 certification:
March 27, 2000

**Akihiko Yoshikawa**
Environment Management Coordinator
Nitta Plant

### Plant overview

| | |
|---|---|
| **Address:** | 10-1 Nittahayakawa-cho, Ota-shi, Gunma Prefecture |
| **Major products:** | Medium- and light-duty truck engines, medium- and heavy-duty truck transmissions, and medium-duty truck axles |
| **Employees:** | 1,400 |
| **Site area:** | 393,932 $m^2$ |
| **Total floor space:** | 182,063 $m^2$ |

### Environmental Policies

1.Harmony with the community and harmonious coexistence with the environment
2.Prevention of environmental pollution as the base for all operations
3.Compliance with laws and regulations
4.No waste and no wasteful use
5.Enhancement of each individual's environmental awareness

### Striving to Become a People-Friendly, Environment-Friendly, Clean Plant

At the Nitta Plant, located in a lush green setting, we have made the 3Ss (*seiri*, *seiton* and *seisou*, meaning well-organized, well-arranged and clean) as the basis for all plant activities. We are also promoting environmental conservation and improvement activities with a sustained awareness of environmental load based on the Nitta Plant Environment Policy.

By working to prevent environmental risks before they occur focusing particularly on upstream production activities, we are working to alleviate environmental risk. As a further initiative for reducing load of the environment, all plant personnel are aiming at higher goals for the prevention of global warming. At the same time, we will make efforts to maintain a clean plant that is accepted by the local community as friendly to people and the environment.

### ■ Award Record

FY2002 Winner of the Director-General's Award (Electrical Division) presented by the Natural Resources and Energy Agency
FY2003 Winner of the Energy Conservation Activity Excellent Group Award presented by the Kanto Bureau of Economy, Trade and Industry
FY2004 Winner of the Director-General's Award (Heat Division) presented by the Natural Resources and Energy Agency

## Data Based on Environment-Related Laws and Regulations

### ■ Water Quality (Water Pollution Control Law, Prefectural Ordinances and Environmental Pollution Prevention Agreement with the Local Government)

Effluent water quality analysis (river channel and discharge site: Tone River via Hayakawa River)

| Item | Regulatory limit | Max. | Min. | Avg. |
|---|---|---|---|---|
| Discharge volume ($m^3$/day) | - | 736 | 0.9 | 406 |
| pH | 6.0-8.0 | 7.9 | 7.3 | 7.5 |
| BOD (mg/l) | 10 | 1 | ND | ND |
| SS (mg/l) | 15 | ND | ND | ND |
| N-hexane (mg/l) | 3 | ND | ND | ND |
| Total phosphorous (mg/l) | 60 | 0.1 | ND | ND |
| Total nitrogen (mg/l) | 120 | 10 | 4 | 8 |
| Zinc content (mg/l) | 1 | 0.06 | 0.02 | 0.04 |
| Fluorine compounds (mg/l) | 1.5 | ND | ND | ND |

ND: Not Detected (Less than the minimum determined limit)

### ■ Air Quality (Air Pollution Control Law and Prefectural Ordinances)

| Equipment | Measured substance | Regulatory limit | Max. | Min. | Avg. |
|---|---|---|---|---|---|
| Continuous furnace #1 (kerosene) | NOx (ppm) | 180 | 110 | 60 | 88 |
| | Soot and dust (g/$Nm^3$) | 0.1 | 0.03 | ND | 0.01 |

### ■ Chemical Substances (PRTR Law)

(Unit: tons/year)

| Cabinet Order No. | Class I Designated Chemical Substances | Volume handled[1] | Volume discharged | | Volume transferred | | Volume recycled | Volume removed/ disposed[2] | Volume consumed[3] |
|---|---|---|---|---|---|---|---|---|---|
| | | | Air | Water | Waste | Public sewer system | | | |
| 1 | Water-soluble zinc compounds | 1.1 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.8 |
| 25 | Antimony and its compounds | 7.6 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 7.4 |
| 40 | Ethylbenzene | 12.4 | 11.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 43 | Ethylene glycol | 38.7 | 0.0 | 0.0 | 19.4 | 0.0 | 0.0 | 0.0 | 19.4 |
| 63 | Xylene | 23.5 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 |
| 68 | Chromium & trivalentchromium compounds | 46.8 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 45.9 |
| 224 | 1, 3, 5-trimethylbenzene | 6.8 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 227 | Toluene | 35.2 | 30.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 |
| 232 | Nickel compounds | 1.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.9 |
| 266 | Phenol | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 | 0.0 |
| 311 | Manganese and its compounds | 25.4 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 24.6 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 346 | Molybdenum and its compounds | 16.9 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 16.8 |
| | Total | 225.7 | 66.5 | 0.0 | 21.8 | 0.0 | 0.0 | 10.2 | 127.2 |

- 1. Applies to volumes handled equal to one ton or more (or 500 kg or more in the case of Specified Class I Designated Chemical Substances)
- 2. Volume removed/disposed: Volume removed by incineration, decomposition or other treatment method
- 3. Volume consumed: Volume converted to other substances by chemical reaction or incorporated in or appended to products and removed from the premises

## The Americas

### Plant overview

| | |
|---|---|
| **Company name:** | Hino Motors Manufacturing U.S.A., Inc. |
| **Head office address:** | 37777 Interchange Drive, Farmington Hills, MI 48335 |
| **Description of business:** | Manufacture of Hino Motors vehicles, sale of service parts, manufacture and sale of automobile parts and components, other |

### Environmental Policies

1.Reduce the negative impact on the environment
2.Increase efforts with regard to pollution prevention and recycling activities
3.Ensure strict compliance with established rules and regulations
4.Promote continuous improvement

### ■ Data Based on Environment-Related Laws and Regulations

| | |
|---|---|
| $CO_2$ emissions | 2,065 t-$CO_2$ |
| Incinerated waste | 157 t |
| Direct landfill waste | 51 t |
| Water usage | 5,000 $m^3$ |

## Thailand

### Plant overview

| | |
|---|---|
| **Company name:** | Hino Motors Manufacturing (Thailand) Ltd. |
| **Head office address:** | No. 99 Moo 3, Thepharak Road, Samrong Nua, Muang Samutprakarn, Samutprakarn Province, Thailand |
| **Description of business:** | Manufacture and sale of Hino Motors trucks and buses, manufacture and sale of automobile parts and components |

### Environmental Policies

1.Coexist in harmony with the global environment
2.Strengthen and manage the company's environmental pollution prevention structure and systems
3.Ensure strict compliance with laws, regulations and other environmental policies
4.Protect energy and natural resources
5.Ensure appropriate waste disposal and treatment

6.Promote employee awareness
7.Promote environmental policy disclosure

### ■ Data Based on Environment-Related Laws and Regulations

| | |
|---|---|
| $CO_2$ emissions | 21,271 t-$CO_2$ |
| Incinerated waste | 0 t |
| Direct landfill waste | 1,529 t |
| Water usage | 300,000 $m^3$ |

## Indonesia


### Plant overview

| | |
|---|---|
| **Company name:** | PT. Hino Motors Manufacturing Indonesia |
| **Head office address:** | Kawasan Industri Kota Bukit Indah Blok D1 No.1 Purwakarta 41181, Jawa Barat, Indonesia |
| **Description of business:** | Manufacture and sale of Hino Motors trucks and buses |

### Environmental Policies

1.Coexist harmoniously with the environment
2.Position prevention at the heart of all business activities
3.Ensure strict compliance with laws and other regulations
4.No waste and no wasteful use
5.Promote individual awareness

### ■ Data Based on Environment-Related Laws and Regulations

| | |
|---|---|
| $CO_2$ emissions | 1,800 t-$CO_2$ |
| Incinerated waste | 39 t |
| Direct landfill waste | 0 t |
| Water usage | 28,000 $m^3$ |

## Pakistan

### Plant overview

| | |
|---|---|
| **Company name:** | Hinopak Motors Limited |
| **Head office address:** | D-2, S.I.T.E. Manghopir Road Karachi-75700, Pakistan |
| **Description of business:** | Manufacture and sale of Hino Motors trucks and buses, supply and sale of mounting superstructures and the import and sale of service parts |

### Environmental Policies

1.Promote the prevention of pollution and environmental load reduction
2.Effectively use energy and other resources

3.Ensure strict compliance with environmental laws and regulations
4.Continuously improve environmental performance
5.Implement employee education and training

### ■ Data Based on Environment-Related Laws and Regulations

| | |
|---|---|
| $CO_2$ emissions | 2,859 t-$CO_2$ |
| Incinerated waste | 51 t |
| Direct landfill waste | 0 t |
| Water usage | 89,000 $m^3$ |

Hinopak Motors received awards for its *Environment and Sustainability Report 2007Б|2008* from three independent organizations.[1] The report received high acclaim as a communication tool aimed at the local community from in terms of both the content and reliability.

1. The organizations are the Pakistan Environmental Reporting Awards 2008, Association of Chartered Certified Accountants in Japan, and World Wide Fund for Nature.

## Shanghai, China

### Plant overview

| | |
|---|---|
| **Company name:** | Shanghai Hino Engine Co., Ltd. |
| **Head office address:** | 179, Huancheng East Road, Fengxian District, Shanghai, China |
| **Description of business:** | Manufacture and sale of Hino Motors' brand engines |

### Environmental Policies

1.Comply with statutory and regulatory requirements
2.Take personal ownership and responsibility for environmental protection endeavors
3.Enhance the effective use of resources and energy as the means for eliminating waste
4.Raise employee awareness of environmental protection
5.Promote continuous improvement in all Company activities

### ■ Data Based on Environment-Related Laws and Regulations

| | |
|---|---|
| $CO_2$ emissions | 1,269 t-$CO_2$ |
| Incinerated waste | 92 t |
| Direct landfill waste | 0 t |
| Water usage | 23,000 $m^3$ |

### ■Acquisition of ISO and EMD Certification by Hino Motors Group

Certification Status at the Hino Motors Group

| Subject companies | | FY2008 Performance | | |
|---|---|---|---|---|
| | | No. of subject companies | No. of ISO registered companies | No. of dealers with EMD certification at all facilities |
| Domestic | Affiliated companies | 23 | 21 | - |
| | Suppliers (excluding Toyota Motor Corporation suppliers) | 556 | 327 | - |
| | | | | |

| | | | | |
|---|---|---|---|---|
| | Dealers | 42 | 5 | 30 |
| Overseas | Affiliated companies | 8 | 5 | - |

## ■FY2008 Major Environmental Data of Hino Motors Group Production Facility

### ■ $CO_2$ emission

(Unit: 1,000 tons-$CO_2$)

| | FY2006 | FY2007 | FY2008 |
|---|---|---|---|
| Hino Motors | 209 | 205 | 168 |
| Domestic affiliated production companies | 110 | 125 | 100 |
| Overseas affiliated production companies | 31 | 34 | 30 |

### ■ Incinerated waste discharge

(Unit: tons)

| | FY2006 | FY2007 | FY2008 |
|---|---|---|---|
| Hino Motors | 1,672 | 604 | 538 |
| Domestic affiliated production companies | 2,090 | 2,639 | 2,138 |
| Overseas affiliated production companies | 340 | 391 | 348 |

### ■ Direct landfill waste

(Unit: tons)

| | FY2006 | FY2007 | FY2008 |
|---|---|---|---|
| Hino Motors | 20 | 0 | 5 |
| Domestic affiliated production companies | 7,188 | 4,534 | 3,822 |
| Overseas affiliated production companies | 1,655 | 1,755 | 1,583 |

### ■ Water usage

(Unit: 1,000 $m^3$)

| | FY2006 | FY2007 | FY2008 |
|---|---|---|---|
| Hino Motors | 2,032 | 2,164 | 1,880 |
| Domestic affiliated production companies | 1,654 | 1,616 | 1,368 |
| Overseas affiliated production companies | 408 | 468 | 448 |