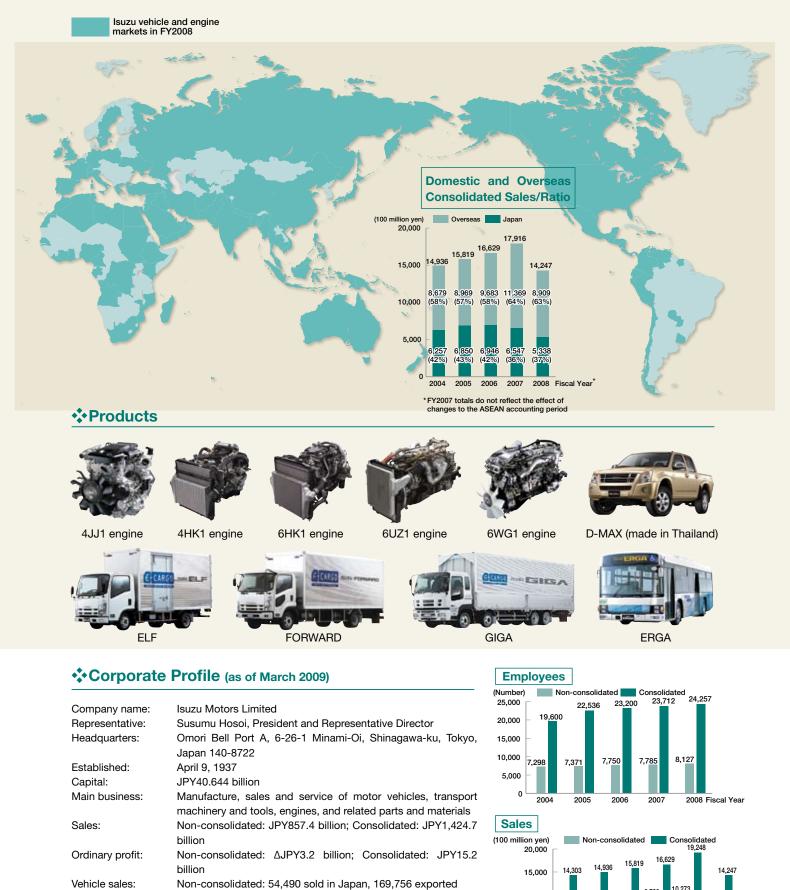


# Isuzu Motors Limited Environmental & Social Report 2009

Isuzu vehicles and engines are produced and sold to support the livelihoods of people around the world.



10,273

2007

8.574

2008 Fiscal Year

9,739

2006

9179

2005

10,000

5,000

0 2003

8.903

8.801

2004

Vehicle sales:

Main products:

1

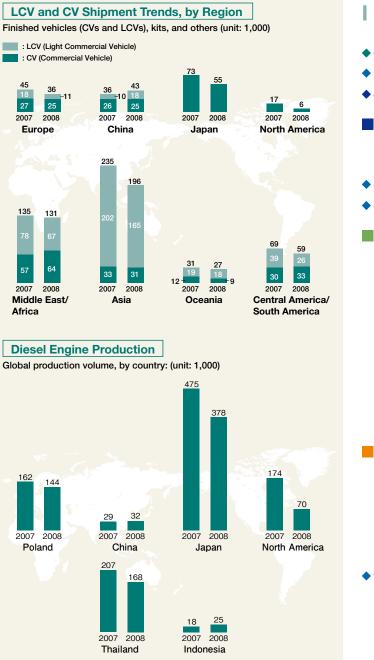
vehicles, buses, and engines and other components Non-consolidated: 8,127; Consolidated: 24,257 Employees:

Consolidated: 57,748 sold in Japan, 342,919 exported

Heavy, medium and light-duty trucks, pickup trucks, utility

Offices and plants: Headquarters, Fujisawa Plant, Tochigi Plant

ISUZU Environmental & Social Report 2009



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#### Editorial Policy

In this 11th annual environmental and social report, we have strived to introduce initiatives of the Isuzu group, which aims to create a sustainable society, in a simple and easy-to-understand way to a wide range of readers. The report was compiled using the Environmental Reporting Guidelines 2007 issued by the Ministry of the Environment and the GRI\* Sustainability Reporting Guidelines 2006 as reference. Please share your comments with us by filling out the attached questionnaire.

\*GRI (Global Reporting Initiative): An international organization that establishes globally applicable reporting guidelines, not only for environmental programs but also for social and economic activities.

#### Scope of Report

This report mainly focuses on environmental initiatives implemented by Isuzu Motors but it also introduces group activities both in Japan and abroad.

#### Period Covered

The data used in this report is from fiscal 2008 (April 1, 2008-March 31, 2009). However, some of the activities introduced refer to more recent events.



# Making Trucks that Are Kind to the to Society so that Isuzu Continues Customers' Choice

Isuzu Motors supplies products to well over a hundred countries around the world closely adhering to its corporate philosophy of supporting transportation and contributing to the creation of an affluent lifestyle as a trusted partner. Trucks used in logistics and diesel engines for moving goods have become indispensable to people's lives. That is why we believe we must do our utmost to ensure that when our customers choose Isuzu products, that choice will be kind to the environment and will lead to the development of a safe and secure community.

Fortunately, we have seen progress in trucks and diesel engines both in terms of their environmental and economic efficiency, and improvements in fuel efficiency has facilitated a reduction in CO<sub>2</sub> emissions. We hope that Isuzu vehicles will continue to be our customers' choice for being environment-friendly, economical and safe.

The world is going through a period of unprecedented challenges with the global economic stagnation and natural disasters in various regions caused by abnormal weather phenomena. However, it goes without saying that we humans are responsible for this state of affairs. Once we recognize this fact, we must believe that mankind is capable of overcoming these problems.

Isuzu will consolidate its latest technologies for commercial vehicles and diesel engines to continue to provide products that are friendly to the environment, our planet earth and to our society.



# Environment and to Be Our



President and Representative Director Isuzu Motors Limited

### Taking the Initiative in Earth-conscious Measures as a Corporate Responsibility

#### Ryozo Tsukioka Director of the Board and

Director of the Board and Managing Executive Officer Development Division Executive Chairman, Global Environment Committee



I currently serve as the Division Executive for the Engineering Division and I have had increasing opportunities to attend JAMA (Japan Automobile Manufacturers Association) meetings and various committee meetings for the government's Central Environment Council. What I have deduced from these meetings is that the environment and the economy have become inseparable aspects that need to be addressed collectively as the world's top agenda in the years ahead. For instance, over 70% of the trucks currently sold by Isuzu already meet the fuel efficiency standard for heavy-duty vehicles\* whose target attainment year is set at fiscal 2015. Customers are extremely conscious of environmental performance and they have applauded the initiatives spearheaded by Isuzu. That is why many people have chosen to purchase our trucks.

Furthermore, Isuzu has refined its techniques by serving as a leading diesel engine company over many years. With a backdrop of the world's most stringent exhaust gas regulations in Japan, our new diesel engines are exceptionally clean. With the advantage of emitting less CO<sub>2</sub> than gasoline engines, these diesel engines are being used around the world as a power source that offers outstanding environmental and economic performance.

For us, regulations are not obstacles that need to be cleared one way or another, but rather minimum standards demanded by society. It is clear that it will work to the advantage of the global environment and of the economy if we can attain our targets as quickly as possible and improve fuel efficiency even further. We intend to continue to view regulation values as one of our targets and seek to attain performances to exceed them.

In addition to developing diesel engines that are cleaner and discharge less CO<sub>2</sub>, Isuzu Motors will actively promote the use of diesel hybrid and CNG (compressed natural gas) vehicles so that we can carry on serving as your partner in creating an affluent way of life around the world.

\*Fuel efficiency standard for heavy-duty vehicles ......A target standard value stipulated for vehicles with a gross vehicle weight of over 3.5 tons as a measure against global warming. Improvement in fuel efficiency curbs CO<sub>2</sub> emissions and helps to prevent global warming.



# People and Technology that Support ELF



The ELF model (N-Series) appeared on the market in 1959 as the first ever cab-over type\* light-duty truck.

For 50 years since then, Isuzu has constantly produced trucks that are ahead of their time.

The new 6th generation ELF has also achieved a level of evolvement that wins our customers confidence with respect to the truck's environmental and social features by promptly adapting to emission gas regulations.

What has supported ELF's popularity for the past half century? Credit has to go to the technology which has always been one step ahead, the zeal of its passionate developers and the warm support of its customers. This feature article presents Isuzu's commitment to the environment and society in making trucks by introducing some of the people involved in the development of the new ELF model.



\*Cab-over type ...... Trucks with no hood that have an engine located under the driver's seat.

# Reading Trends to Planning Predict Needs

Product making begins with planning. One must picture the ideal form in one's mind based on references and experience by giving careful thought to the kind of trucks that people really need. One must then decide on a concept for turning ideals into reality.



Hiroshi Nishizaka General Manager, L/D & M/D Product Planning & Engineering Department

### **Customer Needs for the Years Ahead Center on Environmental Considerations**

Numerous issues had to be overcome in launching a fully-remodeled vehicle to match the needs of the new era. We had to come up with a truck that caters to changes in the logistics system and in the global market, make it safe and economical, and in particular, implement a major transformation at Isuzu to produce a module that is compatible with many models including the light-duty ELF (N-Series) and the medium-duty FORWARD (F-Series) models. Amid these developments, "environmental considerations" were singled out as the paramount requirement for the new ELF series. "Japan now ranks with Europe and the US as an environment-oriented nation. Our customers, who use trucks for their work, are increasingly required to adopt environmental measures. That is why, as a commercial vehicle, ELF must allow our customers to contribute to the environment while also offering cost benefits."

However, it is costly to produce vehicles that are environmentally friendly. Will customers be willing to accept that? Various views were raised from relevant departments and discussions were held on numerous occasions. A large majority of the comments were positive, calling attention to the fact that ELF's success in expanding its share of the market was thanks to the wide range of efforts that have been applied so far and that as a vehicle with the No. 1 share, it has the responsibility of leading the industry by always keeping a close eye on market trends.

The answer to this question came from the ELF KR model which was released in 2002 prior to the release of new ELF. Although being quick to adapt to the new short-term exhaust gas regulations mean an increase in the vehicle's price, many customers still selected the ELF KR.

It was from around this time that emphasis began to be directed to developing vehicles with less impact on the environment. In addition to releasing CNG (compressed natural gas) and HEV (diesel-engine based hybrid) vehicles, environmental features were also incorporated into the new ELF focusing on meeting fuel efficiency targets for heavy-duty vehicles and offering lightweight products.

ELF leads the way in complying with various laws and regulations





#### 6th Generation ELF

80% of Isuzu's lineup, including the ELF model released in 2008, already meets the 2015 fuel efficiency standard for heavy-duty vehicles. These models are eligible for vehicle weight tax and acquisition tax reductions and exemptions, helping to save costs on the part of our customers.

#### ELF KR

Isuzu was applauded for releasing the first vehicle of its class to comply with the new short-term exhaust gas regulations, the ELF KR, in June 2002 before the regulations came into effect in October 2003.

# Finding the Right Shape and Putting Concepts into Shape Design

Vehicle design is done separately for the cab, chassis and engine. After seeking to enhance the performance of each of these components, they are finally assembled and are tuned to refine their performance balance. Making adjustments to the design and conducting repeated tests are critical in attaining the desired performance.

#### Cab Design

#### Safe Driving Originates from a Comfortable Cab: a Spacious Driving Seat with Good Visibility

"Easing driver fatigue was identified as the key issue in the cab design for the new ELF model. As well as offering comfort for the driver, the aim was to eliminate accidents resulting from driving fatigue so that towns that have ELF trucks running through them would become safe towns. "

The cab of the new ELF was designed as closely as possible in a square shape providing greater breathing space in the operating area to ensure that the instruments and switches are easily visible, give the driver a wider view of his immediate surroundings and reducing the number of blind spots around the vehicle. Furthermore, since the light-duty truck is often used for deliveries, designs that allow the driver to get in and out with ease also help to alleviate fatigue. Every possible attention to safety has also been given in the size of the driving wheel, layout of the levers and switches as well as the size and position of the steps.



Yoshiaki Ueda General Manager, Vehicle Engineering Department No.3



Susumu Kawabata General Manager, Vehicle Engineering Department No. 2

#### **Chassis Design**

#### 10% Reduction in Body Weight - Light but Sturdy



Reducing the weight of the body was the biggest challenge in designing the chassis. A lighter body with the same engine power naturally facilitates fuel efficiency improvement and a reduction in CO<sub>2</sub> emissions. If the vehicle is lighter, customers gain the added advantage of increased load capacity. However, since strength and durability cannot be discarded from the perspective of keeping the vehicle safe and economical, we produced a lightweight body that has sufficient strength and durability by changing the materials, dimensions and shape of the frame.

hassis

Use of environmentally hazardous substances such as lead and hexavalent chrome was scrapped entirely in the new ELF. These were used in the past for their strength and rust prevention attributes. Producing substitute parts required reexamining the shape and structure besides simply switching materials.

"Not using materials that are harmful to the environment and producing lighter vehicles is a step towards taking care of earth's resources. With the new ELF model, we managed to reduce vehicle body weight by 10% by optimizing wherever possible."

#### **Engine Design**

#### Fuel Efficiency Improvement and Clean Emissions Are Eternal Themes -Engines that Are Small and Powerful

The new ELF model utilizes a small engine with less displacement than previous models. Use of smaller engines brings both environmental and safety benefits. Small engines leave more space for the cab area. Lighter body weight and smaller engine displacement improves fuel efficiency and reduces CO<sub>2</sub> emissions in the process.

However, we cannot satisfy our customers unless we can offer driving power that is equivalent to or greater than before even with reduced displacement. Consequently we had to make various modifications to acquire high power from a small engine.

"Engine performance is adjusted, firstly by producing the engine on its own and then by finding a balance with the body and chassis so that high fuel efficiency is achieved overall. Fuel efficiency also depends on how the truck is used whether it is for long-distance deliveries or for transport in city areas. In improving fuel efficiency, the engine is tuned so that it offers optimum combustion efficiency to suit the uses of our ELF model customers."

Other improvements include reduction in engine noise because the model is often used for early-morning and late-night deliveries as well as enhanced durability because a sizeable load is placed on the small engine.



Shoichi Yamaguchi No. 3 Chief Engineer, PT Product Planning & Engineering Department



# Design



#### ELF Design Contributes to Cleaner Scenery and Environment

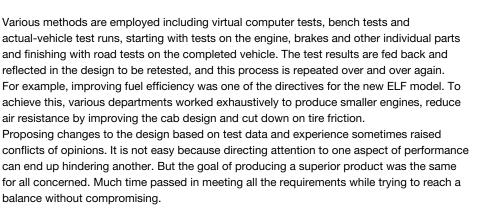
Besides being the symbol of Isuzu Motors, the ELF model also represents the companies of its users. Moreover, the fact that it holds the No. 1 share of the market means that it is a component of the urban scenery and paints the facade of the community. For these reasons, the impression that ELF conveys to onlookers is of extreme importance. While sticking to the universal style of simplicity and cleanliness that has withstood the test of time, the graphics of the windows and the shape of the headlights bring out a touch of individuality. When it comes to interior design, a great deal of thought went into the layout of the driver's controls to ensure that they are easy to use and that the space around the driver's seat is comfortable for the driver. Additionally, the cubic shape of the cab creates a spacious and relaxing environment. With vehicles such as the ELF model, because the cab is positioned directly above the engine, the functions need to be arranged effectively within a compact space. Meticulous adjustments are needed with the design department to transform design requirements into the designer's ideal layout. Ensuring driver visibility affects safety immensely and even the curb on the corner of the cab can alter aerodynamics and fuel efficiency performance and thus contribute to the environment. In that sense, we believe that our designs can be a force for good, not only for our customers, but for the scenery and environment of a community.

# In Pursuit of Optimum Driving Sensation

Thanks to recent progress in digitized development procedures, testing can commence once a virtual vehicle body is completed on the computer. Then, right up until mass production, tests are carried out to achieve the ultimate riding comfort based on detailed analysis results together with years of experience and intuition.



**One-and-a half Times to** the Moon and Back



Akio Kawaki or Kawahire Manager, Project Promotion Section, Vehicle Validation & Experiment Department



"Tests must always be conducted from the customers' perspective. The use of light-duty trucks is changing with the times. For instance, delivery services nowadays are very demanding and perform hundreds of short-distance stop-and-go movements in a single day. But the improvements are worthless unless they come into play under these circumstances. After thoroughly testing the vehicle under conditions expected to be experienced by our customers, we suddenly realized that we had the driven it over a distance equivalent to going to the moon and back and then back to the moon again."

# Purchasing

### **Choosing Environment-conscious Products for Each Part**

Parts suppliers who share Isuzu's philosophy are essential for producing eco-friendly ELF trucks. The purchasing department therefore calls on each supplier to acquire ISO14001 certification or else obtain equivalent Eco Action and Eco Stage accreditations. To date, 319 firms representing over 90% of our suppliers have acquired this type of certification and 13 more firms are planning to apply in fiscal 2009.

# Making Products in Eco-friendly Production Energy-saving Factories

In conjunction with designing the main frame of the ELF model, the production line must also be retooled to manufacture the new vehicle.

In the case of a full model change, the production line will also be designed from scratch. Once production begins, the line is continuously improved to ensure that the vehicles produced are free of defects.



Yukio Takahashi General Manager, Vehicle Manufacturing Department

#### A Clean Line Offers Greater Transparency for Identifying Problems

The factories that produce eco-friendly trucks must also be energy efficient and not emit CO<sub>2</sub> and waste. We have driven forward with a wide range of initiatives on a daily level such as installing energy-conserving facilities, minimizing energy loss and other energy-saving activities. In the painting process too, which consumes relatively large volumes of energy, we succeeded in introducing Japan's first ever fully automated



production line for the coating process in summer 2008. As a result, air conditioning for the site no longer needs to be adapted for workers and is kept on energy-saving settings solely with a view to achieving optimum product quality.

The production line for the new ELF model introduced in line with the full model change employs a new supply method which amazes visitors. There are no piles of parts anywhere besides the straight 200-meter line that can be viewed a glance. There is not even a single forklift carrying parts anywhere in sight.

"Line-side parts are consolidated in the sub-operation area. There, necessary parts for each vehicle are organized into boxes (kits) and are transported to the line on unmanned carriers. This has reduced the workload for line workers, significantly improved product quality and work efficiency, and made the line more "transparent". Thus, forklifts for carrying parts are no longer required, helping to curb CO<sub>2</sub> emissions." Furthermore, in terms of individual efforts by our staff, we have managed to halve the amount of incinerated waste generated from vehicle production by promoting a thorough voluntary waste collection scheme to reduce waste and an expansion of recycling items. Use of heavy oil and other fossil fuels has virtually been abolished at the Fujisawa Plant while the Tochigi Plant has recently switched over to using natural gas for energy. Thanks to ongoing grass roots efforts such as turning off the lights when they are not needed, CO<sub>2</sub> emissions at our factories are down by more than 50% from the 1990 benchmark year designated by the Kyoto Protocol.

Moreover, in order to clarify the effect on the environment and to help grasp the extent of compliance to EU's chemical substance regulations and recycling rates, we employ an international system called IMDS (International Material Data System) for registering information on materials and substance content of parts that make up the vehicle, and call on suppliers to register substance content data.

Also, since 2008, all external transfers of drawings and diagrams are done online without using paper as a means of reducing CO<sub>2</sub> emissions. In addition, to cut down on the CO<sub>2</sub> released while transporting parts, a cooperative transport framework has been set up to make the rounds efficiently by grouping suppliers by region.



### Gauging and Reflecting Customer Needs in Products

Sales can largely be divided into two kinds of work - dealer support and direct sales to big clients.

In either case, it is important to listen carefully to the views of the customer and to reflect those requests in our subsequent products.

This process leads on to the development of the next generation ELF model.



Kenichi Ebine Manager, Japan Sales Department

#### Customers who presently use ELF know best what features the next model should have.



In order to find out how ELF owners use the vehicle, from time to time, our sales and development staff accompany our customers in their trucks to see with their own eyes how frequently the customers get in and out of the vehicle, what kind of places they visit and the age, sex and driving skills of the driver.

"For example, delivery service drivers who frequently visit apartment building car parks often pass through areas where there are children playing. We need to devise ways of improving visibility from the driving seat, preventing children from slipping under the truck bed and sounding warnings when turning corners. Recently, we see an increase in the number of amateur drivers who work as part-time drivers as well as elderly and female drivers. We must therefore provide trucks that can be operated safely and with ease even by inexperienced drivers and that are easy to get into and out of for people with small stature."

There is also a growing need among our customers for environmental considerations. Good fuel efficiency, which is one of ELF's strengths, represents not only cost reductions for a logistics firm but also attests to the fact that the company is using eco-friendly low CO2 emission trucks.

"When we make trucks that have high environmental performance and safety features, the sales staff at our dealers make conscientious efforts to convey those benefits to the customer. I feel that this collective strength will serve to win people's confidence and will sustain ELF's popularity for years to come."

### People and Technology that Support ELF

# Scrap Recycling



### **Improving Recycling Rates**

Isuzu has made a constant effort in the area of recycling scrapped vehicles. Since the automobile recycling law came into effect on January 1, 2005, we have been a member of the ASR (automobile shredder residue) recycling promotion team, ART, which comprises 13 domestic and imported automakers and aims to increase ASR recycling rates. Our current recycling rate is 75.7% attained by selecting disposal firms that have advanced resource recycling achievement rates and thereby reducing the volume of waste that needs to be buried. This value already fulfills the fiscal 2015 legal standard set at a recycling rate of 70%. We have also established the Japan Auto Recycling Partnership with other auto companies to contract out scrapping, improve airbag recycling rates and ensure that CFCs are disposed of properly. Furthermore, in recent years, initiatives have been underway right from the development and design phase to incorporate reusable materials and designs that enable easy dismantling so as to improve recyclability during the scrapping process. We are driving forward with schemes to recycle and reuse limited resources effectively.

# Tending to a Major Part of ELF's Service Life

Isuzu's service section comes into play over the longest period in a truck's service life from the time our customers begin to use the truck until it is scrapped.

During this time the truck would undergo inspections and parts replacements; it may even break down at times.

Various services are provided so that our customers are not inconvenienced during these procedures.



Hiroaki Sugawara General Manager, E-Solutions & Service Marketing Department

BRID

### ELF is Our Customers' Business Partner Round-the-clock Support for Unexpected Breakdowns

ELF trucks that leave the factory and arrive in the hands of our customers toil away diligently for 10 to 20 years. If they are used as delivery trucks for convenience stores, they may stay on the road nonstop 24 hours a day all year round, changing drivers as necessary. When parts wear out, they need to be replaced. The vehicle must also be inspected to maintain safety levels. The service section is involved in the longest phase of an ELF truck's life from inception to retirement.

"Unlike passenger cars, ELF models which are used as business partners are expected to run trouble-free as a matter of course. They come under strict review as breakdowns may cause losses to the business. Our duty in the service section entails 3 aspects: (1)developing vehicles that do not break down easily, (2) foreseeing trouble and performing repairs, and (3) carrying out repairs promptly when breakdowns occur." With regards the first aspect, service engineers at the dealers regularly contact Isuzu's engineering department to report on repair status and offer suggestions for improvement. The second aspect is taken care of by utilizing the Mimamori-kun Online Service, an online

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system for managing truck operations. Statistical data on truck usage is currently being compiled using the system to offer customers tips on safety and how to improve their driving habits. We hope to analyze this data further so as to foresee problems to some extent and establish a preventive maintenance framework to deal with problems before they emerge, much in the same way as a "medical checkup". The third aspect is catered to by the Isuzu Ohayaku Service for promptly dealing with breakdowns on the road even during the night. This was launched over 30 years ago before any other firms in the industry. With the recently released E Support service, nighttime breakdown support is now also offered to customers using Isuzu vehicles for private use and care is taken to convey detailed service information in an easy-to-understand manner.

As a model that boasts the No. 1 market share in its class, Isuzu ELF has gone through innovative transformations to continually lead the way forward. This was only possible because of its top share and the changes were also necessary to keep that position.

The world is in the middle of an unprecedented economic crisis. We reflected on what we should do in these uncertain times and came to the conclusion that we must refine our skills to respond quickly to our customers' needs, develop a discerning eye to adjust to the times and prepare for the coming era.

ELF will continue to evolve with the times along with our customers, sticking closely to the basics of product making and at the same time, being foresighted.

### So that ELF Continues to Be Our Customers' Choice Regardless of the Times



# **Corporate Governance**

Isuzu Motors understands the importance of corporate governance, and as such, we have created the necessary organization to ensure business soundness, compliance and transparency.

#### Basic Stance

Isuzu's basic stance on corporate governance is that earning a sustained profit on our business and enhancing our corporate value depend on establishing a corporate governance framework to monitor our business activities.

The principal aim of our corporate governance is to respect the viewpoints of all stakeholders and build good relationships with them. For that purpose, we are striving to ensure business fairness and transparency by providing timely and appropriate disclosure of critical information. Preparing the internal organization and environment is also an important part of corporate governance, especially for protecting shareholder rights and interests and securing equality among shareholders.

This also requires a functioning Board of Directors and Audit Committee, who together oversee business operations, as well as the practice of accountability to shareholders. The Board of Directors receives a report on the state of business operations at its monthly meetings, and also holds extraordinary meetings as needed to examine and make decisions on important business affairs.

We have adopted an auditing system to monitor business management (five auditors, of which three are external). Auditors follow an auditing plan established by the Audit Committee and attend Board of Directors meetings and other important meetings. They additionally track business reports from the directors and others, review important decision documents, investigate the business and assets status of the head office and other key business sites, and request business reports from affiliate companies when necessary, as well as conduct audits.

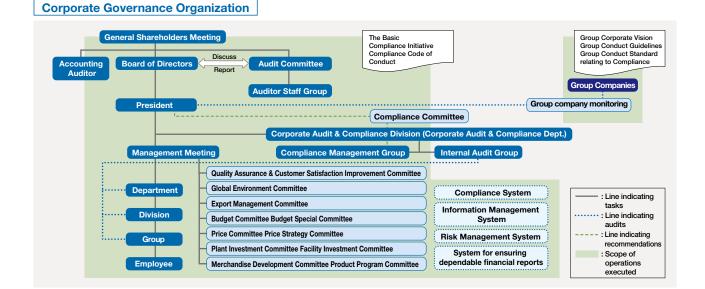
Other internal auditing functions include augmenting the staff of the Internal Audit Department, and enhancing compliance with the law, reliability of financial reporting and effectiveness and efficiency of operations by conducting and supporting internal audits.

#### State of Corporate Governance Organization

To speed up managerial decision-making and business operations, Isuzu has set up a Management Committee that meets every other week as a rule to examine and make decisions on critical management concerns, in accordance with resolutions of the Board of Directors. In addition, we have introduced an executive officer system for properly supporting our directors' business operations.

#### Risk Management

Isuzu strives for smooth corporate management, integrity and stability based on Risk Management Rules that provide a foundation for a comprehensive management system. This system understands risks to be any factor that inhibits the performance of corporate operations, as well as the danger of losses related to those operations. It then precisely identifies the status of those risks and implements any necessary actions against them.





# **Compliance Initiatives**

At Isuzu, compliance is of utmost importance for enhancing corporate value in keeping with our corporate vision. Thus, we have developed and continue to implement our Basic Compliance Initiative.

#### The Basic Compliance Initiative

Our corporate vision: Isuzu will always mean the best – A leader in transportation, commercial vehicles and diesel engines, supporting our customers and respecting the environment.

To ensure corporate value and continue fulfilling this vision, it is crucial to practice compliance but also to ensure that our executives and employees conduct themselves in accordance with the highest ethical standards, so that they may inspire trust from society.

Taking this as our highest management priority and seeking to spread it within and beyond our offices, we have stated our ideals in the form of a Basic Compliance Initiative.

Isuzu's top management assumes responsibility for leadership of this initiative. Should any violations occur, management is committed to resolving these issues and investigating their causes, in order to ensure that they do not recur. Management is also responsible for providing prompt and appropriate public disclosure and accountability. 1. Gaining Customers'Trust

We will gain our customers' trust by providing socially valuable products and services that enrich their lives.

2. Fair and Sound Activities We will conduct business in the spirit of free and fair competition. Further, as private citizens committed to a healthy and fair relationship with host governments, we resolve to avoid contact with any anti-social groups or organizations.

3. Disclosure of Corporate Information We will disclose corporate information to both shareholders and the public in a timely, appropriate and fair manner.

#### 4. Respecting Employees

We will provide a safe, comfortable working environment, with respect for employees' individuality, so that they can make the most of their abilities.

5. Protecting the Environment

As global citizens, we will work to protect the environment through our business activities, while also actively promoting community and regional environmental protection.

6. Contributing to Society

As good corporate citizens, we will make a positive contribution to society.

7. Living in Harmony with the Global and Local Communities We will respect the culture and customs of different countries and regions, and work to contribute to the development of these areas through our business activities.

#### Compliance Activities

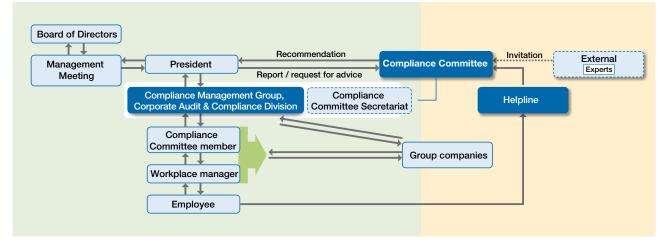
In 2008, the Isuzu group carried out the following promotion activities.

In addition to monitoring how far the activities have penetrated through compliance questionnaires and

conducting problem-solving activities, case study training was provided to management and regular staff via e-learning to raise overall awareness.

Awareness of compliance is being reinforced throughout the corporate group by means of these tools and education programs.





# The Isuzu Group: Working Together to Protect the Environment

Environmental protection is another way in which Isuzu can be a global leader by helping to halt global warming.





#### The Isuzu Charter on the Global Environment (established in May 1992)

#### **Policies on Environmental Initiatives**

- 1. We will work to protect the environment throughout the life cycle of every vehicle, from production to usage and disposal.
- We will actively engage in community and regional environment protection initiatives, not only through our business activities but in our role as earth's resident, so that our children can inherit a world that is beautiful and unspoiled.

#### Action Directives

- 1. When manufacturing vehicles, we will work to protect the environment by reducing energy consumption and vehicle emissions.
- 2. We will seek to reduce exhaust emissions, noise and other negative byproducts of vehicle usage throughout the vehicle development and production process. Furthermore, we will strive to preserve the environment by developing rational logistics systems.
- 3. Based on the understanding that resources are finite, we will design vehicles that would encourage customers to use over many years and that facilitate recycling.



# **Consolidated Environmental Management**

Led by our Global Environment Committee, Isuzu practices Consolidated Environmental Management to tackle global environmental issues group-wide.

#### Consolidated Environmental Management

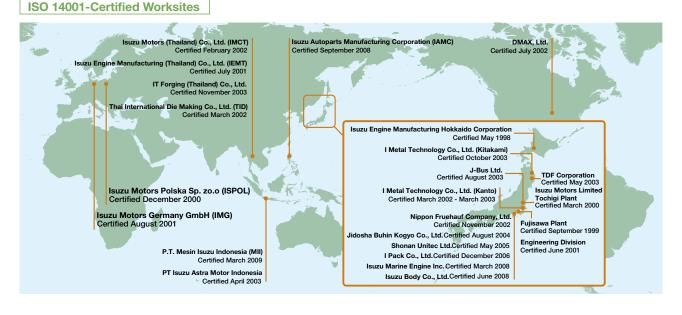
Recognizing the environment as one of our most important management concerns, the Isuzu Global Environment Committee, established in August 1990, is leading our environmental protection efforts in keeping with the Isuzu Charter on the Global Environment. Moreover, the environmental management system we have implemented is working continuously to reduce the environmental impact of our business activities and to strengthen Isuzu's environmental management. The Isuzu Group as a whole has shared the Isuzu Charter on the Global Environment since 2004, and works together to conduct Consolidated Environmental Management initiatives for reducing our environmental impact.

With regards environmental activities by the Isuzu Group's manufacturing division, in fiscal 2008, a consolidated system was established comprising 10 production companies in Japan and 13 companies overseas. These companies hold regular plant environment conferences, during which they

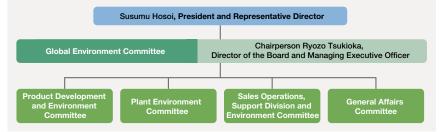
discuss progress on reaching Group targets (relating to global warming prevention, waste reduction and so on) and work to improve their environmental protection efforts. Furthermore, special training sessions are being provided on environment-related laws which are rapidly being strengthened in recent years as a means of raising awareness and interest towards environmental activities. Our domestic sales companies, meanwhile, began their own initiatives in April 2005 following Isuzu's original Environmental Measures Guidelines. By fiscal 2008, most of our domestic dealers had become certified as Step 1 and Step 2 Isuzu Eco Dealers. Since fiscal 2008, we have commenced a special environment training program to further step up our efforts.

Environment activities at company offices also commenced in fiscal 2008 and energy saving activities are underway at Isuzu's head office as well as at 6 other group companies.

Isuzu's approach to the environment is a coordinated effort that includes manufacturing plants, product development, material and parts procurement functions, dealers and offices. Hereafter, we will be enhancing our group-wide activities and consolidating our overseas environment activities further.



Global Environment Committee Global Environment Committee leads Isuzu's efforts for the environment.



#### **Team Minus 6% Activities**

Isuzu has engaged in Team Minus 6% activities since June 2005. Besides following Cool Biz (summer dress code) and Warm Biz (winter dress code) to save energy, employees also practice energy-saving skills in the home.





#### Isuzu Motors Initiatives

#### Environmental Audits

Each year, Isuzu performs regular environmental audits to make sure that our environmental management system is operating properly and continually improving. During fiscal 2008, a third-party certifier conducted surveillance at both domestic plants (Fujisawa and Tochigi) and our product development division. There were three cases of minor nonconformity, which were immediately and properly corrected. We additionally undertook a periodic comprehensive review of our environmental assessments at the production sites, and conducted an environmental impact assessment on new vehicles that are under development. Furthermore we are endeavoring to further the skills of our ISO staff and internal auditors through periodic training sessions.

#### Environmental Compliance and Product Recalls

In fiscal 2008, improvements were made to how information about legal changes is gathered at respective branches so that we can keep up with environment-related laws and regulations which have become increasingly stringent. Instead of merely complying with national and local law, moreover, we have established even stricter voluntary standards and have evaluated our compliance with them, thus assuring that we surpass the legal requirements.

There was one case of environment-related product recall in fiscal 2008. The vehicle was recalled and is being dealt with appropriately.

Recall details: Noise-related problem in FORWARD/exhaust

#### **\*** Environmental Accounting

#### Fiscal 2008 Environmental Accounting

To ensure that we are efficiently and continually protecting the environment, Isuzu adds up its environmental protection costs and effects. The objective of this type of accounting is to provide a tool for making decisions on how to invest efficiently in environmental protection, and this information is additionally disclosed as a measure of our business.

<ul> <li>Environmental</li> </ul>	protection costs
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In fiscal 2008, the total amount of investment in, and cost for, environmental protection came to ¥47 billion (13% more than the previous year). Major examples are shown in the table below.

Environmental protection effects

Through research and development, we were able to improve product performance as shown on pp. 21-22 (Environmental Goals and Achievements). In our factories, we installed facilities to comply with domestic emission regulations and enhanced the efficiency of high-voltage substations.

Environmental Protection Costs Target period: April 1, 2008 to March 31, 2009 (Unit: million [fractions rounded to nearest million])						
Classification of	f environmental protection costs	Amount of investment	Costs	Details of major activities		
	Costs for pollution prevention	199	180	Remodeling of factory incinerators		
Business-area cost	Costs for environmental protection	202	16	Use of low-carbon fuels to power factories, high-voltage secondary power facility efficiency improvements		
	Costs for resource circulation	0	417	Waste processing costs		
Upstream and de	ownstream costs	0	866	Engine and transmission rebuilding costs, boiler and wastewater treatment facility operating and control costs		
Management ac	tivity costs	138	245	Costs for internally addressing the Recycling Law, costs related to ISO 14000 compliance, soil survey		
Research and de	evelopment costs	6,388	38,220	Introduction of product development and production facilities to comply with domestic emissions regulations, development of low environmental burden products		
Social activity co	osts	0	86	Recycling activity costs, costs of supporting environmental protection activities and sending a delegation to the South Pole		
Environmental d	amage recovery costs	0	10	Surcharge on pollution impact		
	Total	6,928	40,039			

\* Our accounting methods are based on Environment Ministry guidelines.

#### Effects of Environmental Protection

Effects of Cost Reductions	(Unit: ¥1 million)
Cost reductions through energy conservation	6
Reduction in waste disposal costs	25
Reduction in costs for tap water and water for industrial use	32
Total	63

#### Substance Reduction Effect

CO <sub>2</sub> emissions	28,000 tons
Amount of landfill waste	0 ton
Water usage	-170,000 m3 (Increase)

#### Japanese Sales Company Efforts

#### Environmental Management Activities at Sales Companies in Japan

Isuzu's customer interface is its sales companies, who sell and equip vehicles and provide after-sale services. Their business activities give them close connections, not just to customers but also to the local communities they serve. Isuzu maintains a nationwide network of dealers and field offices and in April 2005, introduced its Environmental Measures Guidelines<sup>\*1</sup> to focus on the environmental activities of dealers with their close relationships to the community. Activities are conducted at the field office level.

As of the end of fiscal 2008, 291 field offices (99.3 % of the total and 3.1 % more than at end of fiscal 2007) had earned certification as an Isuzu Silver Eco-Dealer\*<sup>2</sup>. Also during the year, 269 field offices (91.8% of the total and 42.0% more than at end of fiscal 2007) won certification as Gold Eco-Dealers. Although we did not quite manage to have all field offices obtain the Gold Eco-Dealer designation during fiscal 2008, environmental efforts will be continued in fiscal 2009 with the same goal. At field offices that have already acquired Gold Eco-Dealer certification, we will drive forward with and continue our activities aimed at maintaining and improving existing environment commitments and to firmly establish these efforts by enforcing the PDCA cycle.

- \*1 Isuzu Environmental Measures Guidelines: Isuzu's original guidelines setting environmental targets for dealers. The standards are divided into two stages; dealers proceed with activities starting with Step 1 and working up to Step 2.
- \*2 Isuzu Eco-Dealer Certification System: A system to certify field offices meeting minimum standards according to Isuzu Environmental Measures Guidelines. Dealers who achieve the Step 1 standard are certified as Silver Eco-Dealers and those who achieve Step 2 as Gold Eco-Dealers.

#### Training of Environmental Staff

We held ISO 14001 internal auditor training sessions to develop environmental staff at sales companies. A total of 17 trainees qualified as new internal environmental auditors bringing the total of qualified auditors to 129. Training sessions are also planned in fiscal 2009 to continue developing environmental staff.



Internal auditor training

#### Activities in the Offices

The following activities are in progress at the offices of Isuzu's headquarters, the Isuzu Hospital and its 6 non-manufacturing group companies in Japan\*.

\* Isuzu Network co., Ltd.; Isuzu Estate Co., Ltd.; Isuzu LINEX Corporation; ICL Co. Ltd.; Isuzu Systems Service Ltd.; Isuzu UMAX Corporation (companies listed in random order)

#### Energy-saving Activities

In addition to switching the lights off during lunch breaks and encouraging Cool Biz and Warm Biz dress codes, efforts have been made to curb electricity use in the offices in order to reduce CO<sub>2</sub> emissions<sup>\*</sup>.

From fiscal 2009 onward, we are planning to step up our targets and activities to comply with the revised Rationalization in Energy Use Law, the Law Concerning the Promotion of the Measures to Cope with Global Warming and the Tokyo Metropolitan Ordinance (total emission reduction obligation and emission trading scheme).

\* ICL Co. Ltd. head office achieved a 23% reduction in electricity consumption for air conditioning purposes by installing an energysaving air conditioning system.

#### Team Minus 6% Activities

In addition to implementing Coolbiz and Warmbiz dress codes, since 2008, we also participate in the Tanabata Light-Down event held as part of the " $CO_2$  Reduction/Light-Down Campaign". In 2008, Isuzu and group company employees and their families were requested to switch off any unnecessary lights between 8 and 10pm on July 7. At the same time, lights in the executive office and those illuminating the ISUZU symbol at head office were also turned off.

#### Green Purchasing of Stationery

Since June 2007, Isuzu head office and the manufacturing and engineering divisions preferentially select products that comply with green purchasing guidelines and thus have less impact on the environment when purchasing office stationery and copier/printer paper.

#### Seminar on Environmental Laws and Regulations

Instructors were invited to give seminars on the themes of "Environmental Compliance Risks" and "Environmental Laws and Regulations - Key Points and Practical Business Applications" with the objective of establishing and raising awareness for environmental compliance among environmental

staff in the offices. Similar seminars aimed at enhancing staff levels are planned for fiscal 2009 and beyond.



Seminar on Environmental Laws and Regulations

#### Initiatives of Japanese Production Group

#### Initiatives at Japanese Production Group Companies\*

Isuzu and its domestic production group companies are working to reduce the environmental burden by making steady progress toward our goals for fiscal 2010.

One example is our "litokodori" initiative, in which Group companies take turns in sponsoring plant environmental meetings to introduce each company's environmental burden reduction efforts. In future, we will continue to challenge each other to new levels of performance.

#### ◆ Data for Japanese Production Group Companies

Isuzu works closely with its 10 Japanese production group companies to advance environmental protection. These efforts address three major issues: preventing global warming, reducing waste and reducing environmentally harmful substances. Together, we have already met our fiscal 2010 targets for  $CO_2$  emissions and waste sent to landfills.

1. Trends in CO <sub>2</sub> Emissions						(L	Jnit: 1,000 tons)
Fiscal	year	'04	'05	'06	'07	2008 figures	Target for 2010
Isuzu non-cons	olidated	207	190	186	184	156	220
Consolidated	Emissions	409	401	403	413	328	(—)
(11 companies)	Unit (tons/¥100 million)	48.2	43.7	41.3	40.2	38.3	45.0 <sup>-</sup>

<sup>\*</sup> Target: 1% p.a. reduction in emission units (with 6% reduction on fiscal 2004 levels by 2010).

2. Trends in landfill disposal						(Unit: tons)
Fiscal year	'04	'05	'06	'07	2008 figures	Target for 2010
Isuzu non-consolidated	157	65	13	9	8.1	24
Consolidated (10 companies)	9,231	5,706	4,303	2,271	1,859	4,743
Consolidated (11 companies)	9,388	5,771	4,316	2,280	1,867	4,767 <sup>.</sup>
* Target: Reduce by d	lagat	500/ 0	n fiaca	1 000 4	figures	

\* Target: Reduce by at least 50% on fiscal 2004 figures.

#### 3. Trends in emissions of PRTR substances (Unit: 1,000 tons)

Fiscal year	'04	'05	'06	'07	2008 figures	Target for 2010
Isuzu non-consolidated	113	142	139	137	106	100
Consolidated (10 companies)	275	302	272	281	239	265
Consolidated (11 companies)	388	444	411	418	345	365 <sup>.</sup>

\* Target: Reduce by at least 30% on fiscal 2003 figures.

\* Domestic production group companies: Ten group businesses: Isuzu Engine Manufacturing Hokkaido Corporation; I Metal Technology Co., Ltd.; J-Bus Ltd.; Nippon Fruehauf Company, Ltd.; Jidosha Buhin Kogyo Co., Ltd.; Shonan Unitec Ltd.; I Pack Co., Ltd.; Isuzu Marine Engine Inc.; Isuzu Body Co., Ltd.; TDF Corporation (companies listed in random order).

#### **\***Overseas Production Group Efforts

#### Overseas Group Company\* Activities

Like the Japanese production group, overseas production group companies are actively engaging critical environmental issues, including global warming prevention, waste reduction and reduction of environmentally hazardous substances. Preventing global warming and reducing  $CO_2$  are priority issues for the entire Group around the world. In fiscal 2008, the following 2 companies newly acquired the ISO 14001 certification.

- P.T. Mesin Isuzu Indonesia (Indonesia)
- Isuzu Autoparts Manufacturing Corporation (Philippines)

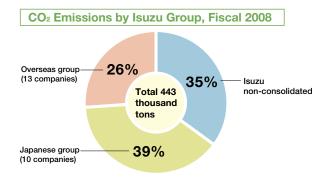


Engine assembly line at P.T. Mesin Isuzu Indonesia

#### CO<sub>2</sub> reduction target

1% reduction in units per year and 6% reduction in fiscal 2010 (from fiscal 2004 levels).

Overseas consolidated group companies: Thirteen group businesses: Isuzu Motors (Thailand) Co., Ltd.; Isuzu Engine Manufacturing (Thailand) Co., Ltd.; IT Forging (Thailand) Co., Ltd.; Thai International Die Making Co., Ltd.; Isuzu Motors Polska Sp. zo.o; DMAX, Ltd. ; PT Isuzu Astra Motor Indonesia; P.T. Mesin Isuzu Indonesia; P. T. Asian Isuzu Casting Center; Isuzu Philippines Corporation; Isuzu Autoparts Manufacturing Corporation; Isuzu HICOM Malaysia Sdn. Bhd; Isuzu Vietnam Co., Ltd. (companies listed in random order)



#### Initiatives of Japanese Production Group Companies/TDF Corporation

TDF Corporation, founded in 1919, is Japan's oldest privatesector forging company and is presently operating 2 factories in Miyagi Prefecture and a subsidiary company in Gifu Prefecture. The factory at the company's headquarters has 15 large and small forging lines as well as facilities for thermal processing, finishing and testing, and mold making to produce car parts materials. Parts are produced at the processing plant by means of machine processing.

The main product, front axles, has around 60 to 70% share of the domestic market and these are supplied to Isuzu Motors and other automakers.

As you can see in the photograph, the company is located in an area that is surrounded by mountains and paddy fields. Efforts are therefore made to ensure that our factories are kind to the local environment based on ISO 14001 certification (acquired in 2003). For example, the forging process consumes vast amounts of heat and electricity so we switched to using mostly electricity and natural gas powered furnaces. We have also cut back on electricity consumption by limiting the number of compressors used and improving operating rates. In order to reduce waste, we have recently installed a device to separate saw dust used as mold release agent in hammer forging machines from iron





Makoto Sasaki, President and Representative Director

Iron filing and saw dust separator



Aerial view of company headquarter factories

filings (scale), jointly developed with Tohoku University and other organizations in a government-industry-academia collaboration. This device is expected to facilitate recycling of iron as well as a substantial reduction in landfill disposal volumes. We will continue with our commitment to community-based environment-friendly plant development.

# Initiatives of Production Group Companies outside Japan/P. T. Asian Isuzu Casting Center (AICC)

P. T. Asian Isuzu Casting Center (hereinafter, AICC) was established in 1997 as Isuzu Group's first overseas metalcasting plant. The company produces cylinder blocks and underbody parts for LCVs in Thailand as well as cylinder heads and blocks for the market within Indonesia. AICC is currently preparing to acquire ISO 14001 certification and is driving forward with efforts to save energy and reduce waste in its plant operations.

In an effort to reduce waste, various recycling schemes are underway based on waste disposal methods employed in Japan. The company recycles and reuses sand that forms the hollow section of the cast. Moreover, it also reuses waste sand and dust as cement material and sells scrap iron as raw materials. Particular attention is focusing on making effective use of dissolved dust containing valuable metal and efforts are being made to make further headway in this regard by contacting metal makers in and out of Indonesia. AICC intends to continue with its efforts to reduce its environmental impact by



Entrance to AICC factory

Yoshihiko Kamijima, President & Director



Some of the factory equipment

implemented energy-saving and waste-reducing (sorting, recycling) measures in its plant operations.



Environment

# **Environmental targets and achievements**

Below we report on Isuzu's environmental protection initiative targets and achievements for FY2008.

#### Manufacturing Environmentally Friendly Products

FY2008 Environmental Targets	FY2008 Achievements
Improvement in fuel efficiency to prevent global warming <ul> <li>Continuous development of products with improved fuel efficiency</li> </ul>	<ul> <li>Achieved the 2015 fuel efficiency standard for heavy-duty vehicles</li> <li>In FY2008, the 3-ton ELF model (excluding wide-cab, AT and some 4WD models) achieved the 2015 fuel efficiency standard for heavy-duty vehicles in addition to 1.5-ton, 2-ton, 4-ton and 4.5-ton models (with some exceptions).</li> </ul>
Cleaner emissions • Early launch of low-emission vehicles	<ul> <li>Met new regulations on long-term automobile exhaust gas emissions</li> <li>Implemented model change on microbus, JOURNEY, introduced diesel engines to the series in addition to gasoline engines, acquired low exhaust gas emissions certification and achieved 2005 standard of 10% PM reduction (released in June 2008).</li> </ul>
<ul> <li>Reduction in external vehicle noise</li> <li>Development of technology for external vehicle noise reduction and deployment in vehicles</li> </ul>	<ul> <li>Proactively implemented measures to reduce noise and improve noise comfort during idling and driving through city areas. Ongoing studies into engine and drive-train noise measures and optimum noise suppression designs as well as development of high performance noise absorption and suppression materials are in progress.</li> </ul>
<ul> <li>Development and promotion of clean-energy vehicles</li> <li>Research and development of alternative-fuel vehicles and electric vehicles that excel in environmental design</li> </ul>	<ul> <li>Development of prototypes for large and medium-size buses with clean diesel and series hybrid systems (September 2008). Will aim for mass production.</li> </ul>
<ul> <li>Promoting recycling</li> <li>To achieve compliance with the standards required by Automobile Recycling Law</li> <li>To enhance free-of-charge end-of-life vehicle recovery system in the EU</li> <li>To expand the use of recycled materials</li> <li>Development of new parts</li> </ul>	<ul> <li>The Eco Mark-certified resin center console box made with recycled materials deployed in ELF, FORWARD and GIGA models.</li> <li>Japan: Automobile Recycling Law</li> <li>Achieved a 75.7% ASR recycling rate (the standard requires 30% or more) and a 94.9% air bag recycling rate (the standard requires 85% or more)</li> <li>EU: Directive on Recycling of End-of-Life Vehicles</li> <li>Underwent and passed preliminary review for recycling certification.</li> </ul>
<ul> <li>Reduction in environmentally hazardous substances</li> <li>Adherence to prohibition on use of heavy metals (lead, mercury, cadmium, hexavalent chromium) in new vehicles except in certain applications.</li> <li>Expand scope of control over environmentally hazardous substances</li> </ul>	Have almost attained target for hexavalent chromium. We are confident that we can soon eliminate the
Reduction in air conditioner refrigerant • Maintain low level of refrigerants for current cooling systems	<ul> <li>Since hydrochlorofluorocarbon HFC134a is a greenhouse gas, we aimed to reduce its use by 20% from 1995 levels and managed to cut average refrigerant use by 44%. Measures are also underway to deal with refrigerants with low global warming potential.</li> </ul>
Reduction of VOCs in vehicle cabins <ul> <li>Development of low-VOC vehicles</li> </ul>	Continuing.

#### Building Environmentally Friendly Plants

FY2008 Environmental Targets	FY2008 Achievements
<ul> <li>Prevention of global warming by reduction in CO<sub>2</sub> emissions</li> <li>CO<sub>2</sub> emissions: 181,800 tons or less</li> <li>Reduction in energy consumption by 1% or more units per year</li> </ul>	<ul> <li>CO<sub>2</sub> emissions: 156,439 tons</li> <li>Basic unit for energy: 23.6 tons/100 million yen</li> </ul>
<ul> <li>Reduction in waste</li> <li>Landfill waste (non-consolidated): 12 tons or less/year (6 tons or less per plant per year)</li> </ul>	Landfill waste (non-consolidated): 8.1 tons/year
<ul> <li>Control and reduction of environmentally hazardous substances</li> <li>Reduction in VOC emissions in the painting process to 20.7 g/m<sup>2</sup> or less</li> </ul>	• VOC emissions in the painting process: 19.6 g/m <sup>2</sup> or less
Logistics <ul> <li>1% or more reduction in energy usage (on FY2007 figures)</li> </ul>	Energy usage reduced by 1.3% (on FY2007 figures)

#### Environmental Management

FY2008 Environmental Targets	FY2008 Achievements
<ul> <li>Environmental Management</li> <li>To expand scope of companies subject to environmental initiatives (add seven Group manufacturers outside Japan)</li> <li>Promotion and improvement of environmental efforts by dealers</li> </ul>	<ul> <li>Expansion of scope of companies subject to environmental initiatives (added seven Group manufacturers outside Japan)</li> <li>291 of the sites achieved Step 1 of the guidelines (99.3% certification rate); 269 of the sites achieved Step 2 of the guidelines (91.8% certification rate) as of March 2008</li> </ul>
<ul> <li>Promoting green procurement</li> <li>To promote IMDS use and reduction of regulated substances</li> <li>To promote introduction of environmental management system in more suppliers</li> <li>(ISO 14001 certification rate: 88.3% or higher)</li> </ul>	<ul> <li>Continued sponsoring of explanatory meetings on procurement guidelines (encouraging introduction of an environmental management system, encouraging adoption of green procurement, request to ensure firm establishment of IMDS)</li> <li>Promoted introduction of environmental management system by suppliers (ISO 14001 certification rate: 90.9%)</li> </ul>
Social Report	

# FY2008 Environmental Targets FY2008 Achievements Promotion of social contribution activities and environmental communication • Publication of Environmental & Social Report 2008 in November 2008. • Publication of environmental and social reports • Publication of environmental and social reports • Participation in events and exhibitions • Protice promotion of social contribution activities • Other (promotion of eco-driving and safe driving) • Staff planted 1,000 trees as part of an afforestation effort on Mount Fuji. (June 2008) • Held fuel-efficiency and safe driving seminars in collaboration with Japanese and overseas sales companies.

Self-evaluation	FY2009 Environmental Targets	Mid- and Long-term Targets	Related pages
0	<ul> <li>Continuous development of fuel efficiency technology</li> </ul>	<ul> <li>Meeting fuel efficiency/CO<sub>2</sub> regulations in different countries and regions</li> <li>Development of leading fuel efficiency enhancement technology (top- level fuel efficiency)</li> </ul>	P23, P25
0	Early market launch of low-emission vehicles	<ul> <li>Development of next-generation after-treatment devices</li> </ul>	P23, P25
0	Development of low-noise technology and deployment in products	<ul> <li>Development of low-noise diesel-powered vehicles</li> </ul>	P28
0	Research and development of alternative-fuel and electric vehicles with superior environmental performance	<ul> <li>Research and development of alternative-fuel and electric vehicles with superior environmental performance</li> </ul>	P25
0	<ul> <li>Respond to domestic automobile recycling law</li> <li>Smooth operation of free-of-charge end-of-life vehicle collection system in the EU</li> <li>Development of new components (that are recyclable)</li> <li>Expand usage of recycled materials</li> <li>Deliberation into waste bumper collection method for recycling purposes</li> </ul>		P30~31
0	<ul> <li>Prohibit use of heavy metals (lead, mercury, cadmium, hexavalent chromium) in new vehicles (except certain applications)</li> <li>Expand scope of control over environmentally hazardous substances</li> </ul>		P28~29
0	Maintain low level of refrigerants for current cooling systems	Switchover to fluorocarbon-free air conditioners	P28
	Develop low-VOC vehicles	Increase in the number of low-VOC vehicles	P28~29

Self-evaluation	FY2009 Environmental Targets	Mid- and Long-term Targets	Related pages
0	<ul> <li>CO<sub>2</sub> emissions: 157,026 tons or less</li> <li>Basic unit for energy: Reduce by 1% or more per year</li> </ul>	<ul> <li>CO<sub>2</sub> emissions reduction targets Isuzu Motors Ltd. (non-consolidated): Decrease by 50% or more from the FY1990 level by FY2010 Isuzu domestic group companies: Decrease of units by 6% from the FY2004 level by FY2010</li> <li>Formulation of a medium-/long-term plan for global CO<sub>2</sub> reduction</li> </ul>	P19, P26
0	Landfill waste (non-consolidated): 12 tons or less/year (6 tons or less per plant per year)	<ul> <li>Landfill waste (non-consolidated): To maintain one ton or less per plant per month and 24 tons or less per year by FY2010</li> <li>Landfill waste (domestic group companies): Decrease by 50% from the FY2004 level by FY2010</li> </ul>	P19, P32
0	VOC emissions in the painting process: 20.7 g/m <sup>2</sup> or less	<ul> <li>VOC emissions in the painting process: 19.2 g/m<sup>2</sup> or less by FY2010</li> <li>Reduction in PRTR substances emissions Domestic group companies: Decrease by 30% from the FY2003 level by FY2010</li> </ul>	P19, P29
0	• 1% or greater reduction in energy usage (on FY2008 figures)	<ul> <li>6% or greater reduction in energy usage (for the four-year period 2006 - 2010)</li> </ul>	P27

Self-evaluation	FY2009 Environmental Targets	Mid- and Long-term Targets	Related pages
0	<ul> <li>Expansion of environmental information system (establish data collection system)</li> <li>Maintain and improve guideline standard levels</li> </ul>	<ul> <li>To promote Isuzu Group's consolidated environmental management</li> <li>To achieve the Group's long-term goals</li> </ul>	P16~20
0	<ul> <li>Use of IMDS and promoting reduction of regulated substances</li> <li>To promote introduction of environmental management system in more suppliers (ISO 14001 certification rate: 94.6% or higher)</li> </ul>	<ul> <li>To promote a reduction in the use of environmentally hazardous substances</li> <li>To promote introduction of environmental management system in more suppliers</li> </ul>	P39

Self-evaluation	FY2009 Environmental Targets	Mid- and Long-term Targets	Related pages
	<ul> <li>Publication of environmental and social reports</li> <li>Active promotion of social contribution activities</li> <li>Promotion of eco-driving and safe driving</li> </ul>	Active promotion of social contribution activities and environmental communication	P35~37

(NB) The " $\bigcirc$ " mark represents achievement of the target based on self-evaluation. The " $\bigcirc$ " mark represents the need for continued efforts in FY2009.



## **Environmental Policies in Business Activities**

Isuzu has established clear environmental policies in the Isuzu Charter on the Global Environment and promotes these policies on a group-wide basis.

#### Manufacturing Environmentally Friendly Products

#### Fundamental Development Concept: SEE Technologies

Pursuit of people's trust underlies product development at Isuzu. As a matter of principle, the vehicles we manufacture must be worthy of the trust of all customers and stakeholders.

This philosophy guides us in perfecting technology applied for Safety, Economy, and the Environment, which form the acronym SEE and represent our fundamental development concepts.

In this way, our development philosophy and basic approach inspire us to develop technologies and create new value for society that combines lower environmental impact with greater safety and economy.

#### ISUZU



#### Eight Major Tasks

We have identified the following eight priority tasks in engineering environmentally friendly vehicles to develop technologies that minimize environmental impact throughout vehicle life cycles.

- Preventing global warming
   Using limited
- resources efficiently Preventing air
- pollution Quieter environments where vehicles
- are used Safer environments where vehicles are used
- Comfortable vehicle cabins

- Improve fuel efficiency and reduce CO<sub>2</sub> emissions
   Strive for cleaner vehicle exhaust
   Develop clean-energy
  - vehicles
  - 4 Reduce vehicle noise
     5 Reduce environmentally hazardous substances
    - 6 Improve recyclability
  - Use low-GWP refrigerants\*
     Reduce VOCs in vehicle cabins
- \* Use of low-GWP refrigerants: Although HFC134a refrigerant is used as a substitute for ozone-depleting CFCs, it has significant global warming potential (GWP). Isuzu therefore seeks to reduce usage by 20% relative to 1995 levels. Having already reduced usage by an average of 44% per vehicle, we have also introduced systems with less leakage. We are currently promoting development of air conditioners using low-GWP refrigerants.

#### For Environmentally Friendly Plants, Receptive to Our Communities

Preventing global warming, lowering CO<sub>2</sub> emissions

Promoting recycling-oriented society, reducing waste

Society with no pollution, reducing environmentally hazardous substances

Taking initiative in environmental management, complying with environmental regulations

#### Building Environmentally Friendly Plants

The manufacturing process has a broad environmental impact, affecting both local communities and the global environment. Under a policy of thinking globally and acting locally, therefore, the Plant Environmental Committee leads four key efforts to establish ideal production sites. Working with group companies at home and abroad, we also ensure that plants are receptive to our local communities.



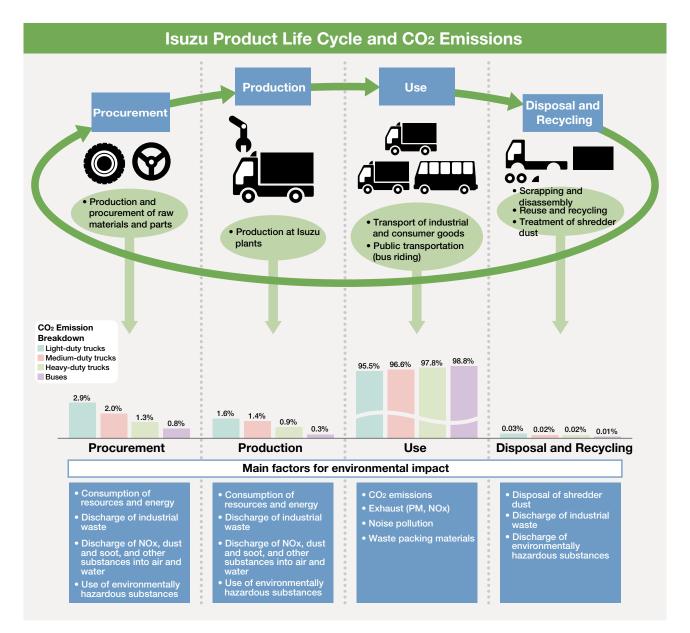
# **Climate Change Efforts**

Taking on climate change, Isuzu conducts vehicle life-cycle assessment, applying measured and simulated data to understand the environmental impact of vehicles, from materials procurement to disposal and recycling.

#### Overview of Isuzu Climate Change Efforts

To reduce the environmental impact of vehicles, Isuzu is fully committed to lowering emissions of  $CO_2$  and other environmentally hazardous substances over the course of vehicle life cycles. We have identified key issues by studying life-cycle assessment (LCA) methods. The environmental impact throughout a vehicle life cycle mainly occurs in use when more than 90% of the life cycle has expired. Environmentally hazardous substances primarily consist of exhaust gases, much of which is  $CO_2$ . The rest is made up of relatively small quantities of CO, PM, NOx, HC and other substances. For this reason, Isuzu works diligently to apply measured data and simulations to improve fuel efficiency (which has the effect of lowering  $CO_2$  emissions) and reduce emissions of exhaust such as CO, PM, NOx and HC. Meanwhile, we facilitate recycling by applying DFE\* principles to design vehicles that are easier to disassemble and sort into reusable materials after use.

\* DFE: Design For Environment



#### Climate Change Efforts on the Product Level

Isuzu works to support the following measures in the "List of Measures and Policies Concerning Energy-originated Carbon Dioxide" in the Kyoto Protocol Target Achievement Plan.

- Promote use of public transportation: Isuzu provides buses that support barrier-free use, expanded services, and higher levels of quality
- Promote use of environmentally friendly vehicles: Aggressive expansion of "idling stop" vehicles and Mimamori-kun Online Service
- More efficient transport by truck: Isuzu provides larger vehicles and vehicles compatible with trailers
- Improve automobile fuel efficiency through the Top Runner Standard: Expanded line of vehicles meeting fuel efficiency standards for heavy-duty vehicles
- Promote popularization of clean-energy vehicles: Isuzu provides CNG and hybrid vehicles

#### Meeting FY2015 Fuel Efficiency Standards

Curbing global warming through lower  $CO_2$  emissions (by conserving fuel) is mandated by the Japanese government. Accordingly, fuel efficiency standard for heavy-duty vehicles (vehicles with gross vehicle weight of over 3.5 tons) came into effect on April 1, 2006 with the amendment to the Act on the Rational Use of Energy and automakers are since required to disclose details regarding compliance to this standard in their catalogues. Furthermore, since fiscal 2015, automakers are required to ensure that the average fuel consumption (simulated for respective categories) of diesel heavy-duty vehicles shipped to the Japanese market every fiscal year meets target standard values (FY2015 fuel efficiency standards).

Incidentally, this standard is the world's first fuel efficiency standard for diesel heavy-duty vehicles and has not yet come into force in Europe or the US where it is still in the exploratory stage.

Isuzu has met these standards while also meeting new long-term emissions regulations by equipping trucks with D-CORE engines and "smoother" transmissions, and through other advances. ELF light-duty trucks,<sup>\*1</sup> FORWARD mediumduty trucks,<sup>\*2</sup> GIGA heavy-duty trucks,<sup>\*3</sup> and ERGA heavyduty route buses<sup>\*4</sup> already meet FY2015 fuel efficiency standards.

- \*1: 1.5-ton, 2-ton, 3-ton (narrow) and 4-ton and above (wide) loads (excluding some models)
- \*2: Vehicles with a GVW of 8 tons, equipped with a 4HK1-TC engine (excluding low-floor 4-wheeldrive models), and those with a GVW of 11 tons (excluding low-floor 4-wheeldrive models)
- \*3: Vehicles with a GVW of 20 tons, equipped with +6UZ1-TCS+MT, and those with a GVW of more than 20 tons equipped with +6UZ1-TCS and Smoother G
- \*4: MT vehicles with a GVW of more than 14 tons



燃費基準達成

FORWARD and 4HK1 engine

新長期規制適合



GIGA and 6UZ1 engine



ERGA and 6HK1 engine

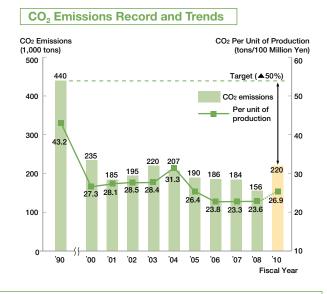
#### Climate Change Efforts at Plants

As a target to meet by fiscal 2010, the manufacturing division at Isuzu will halve  $CO_2$  emissions relative to FY1990 levels. In fiscal 2008,  $CO_2$  emissions totaled 156,000 tons, or 23.6 tons/100 million yen units.

One significant initiative was reducing  $CO_2$  emissions through fuel-switching and adoption of natural gas (at the Tochigi plant), and replacing oil-burning unit heaters with far-infrared heaters powered by natural gas. Additionally, we have introduced cogeneration and highly efficient multi-can boilers, besides equipping accumulators (pressure reservoirs) with general-purpose hydraulic units. Patrols by our Energy Conservation Committee help save energy, as do the ecostop and idling-stop practices we promote. Painting booth relocation and consolidation has also proven effective. We will continue to study fuel switching and adoption of natural gas, process-specific approaches, and energy that supports natural recycling mechanisms as we plan renewed efforts by the Energy Conservation Committee and other initiatives.

#### Promotion of Energy Conservation Committee Activities

The Energy Conservation Committee in our plant division, comprising members of Isuzu's manufacturing, technical and engineering departments as well as its affiliate companies, implement meticulous energy-saving activities. In particular, patrols are made by the committee not only during operating hours but also when the factories are shut down between daytime and nighttime shifts and during holidays to make sure that the lights have been turned off, to minimize leakage of conditioned air and to monitor environmental devices to raise awareness among individual staff members and enhance energy conservation activity levels.



#### Energy-Switching Plan and Conversion to Natural Gas

To reduce  $CO_2$  emissions, the Tochigi plant is gearing up to switch to natural gas for power.\* We are phasing out fossil fuels (Class A heavy oil, kerosene, and liquefied petroleum gas (LPG)) in favor of natural gas



Liquefied natural gas (LNG) plant

(specifically, LNG) with lower  $CO_2$  emissions. Switching to high-efficiency boilers in steam equipment is another initiative of ours. Combined, these changes will reduce annual  $CO_2$  emissions by approximately 4,000 tons.

\* Construction began in fiscal 2008 and is scheduled to end in fiscal 2009. A specialized energy services company (ESCO) has been enlisted for the series of projects.



Small high-efficiency boilers

#### Climate Change Efforts in Distribution

♦ Environmentally Sound Approaches in Distribution Isuzu reviews freight shipping methods to improve transport efficiency and reduce energy consumption. Additionally, we promote widespread adoption of Mimamori-kun online services and CNG vehicles as part of our commitment to environmental conservation.

#### **Reduction Targets in Energy Consumption**

- (1) By FY2010: Reduce energy consumption by 6% or more over FY2006
- (2) FY2008–2009 target for energy-saving activities: Reduce consumption by 1% or more over the previous year

#### Meeting Our Reduction Targets

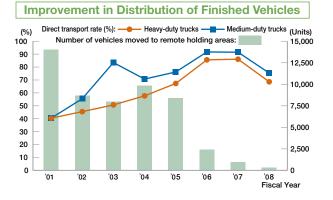
In fiscal 2008, we made good progress in our plans. We reduced energy consumption by 1.3% over the previous year.

#### <Main Activities>

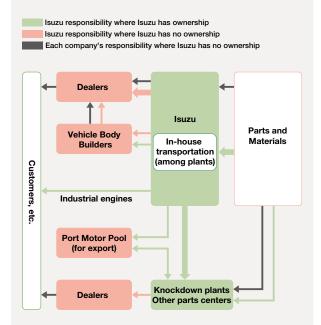
Isuzu sought to achieve greater transport efficiency and promote eco-driving in order to promote energy-saving activities in its domestic distribution.

#### 1. Efforts for greater transport efficiency

- 1) Use of larger delivery vehicles: Expansion of inland vanning\*
- Improvement of delivery efficiency: Reduction in number of truck services through improvement in delivery efficiency by switching to a system of allocating vehicles according to cargo volume
- 2. Establishment of Cooperative Framework with Partner Delivery Companies
  - 1) Fuel-efficient driving seminars: Hosted by Isuzu LINEX for partner delivery companies
  - Recommending partner delivery companies to use Mimamori-kun online services to promote eco-driving.



#### Scope of Isuzu Responsibility in Distribution



#### Quantified Results Under Amended Energy Saving Law (Transport Volume/Energy)

	Transport Category	First Half of FY2008	Second Half of FY2008	FY2008 Total
	Vehicles (products)	67,258 45,172		112,430
Transport Volume (1,000 ton-kilometers)	Procurement for production	109,064	68,838	177,902
t Volu kilom	Parts supply	18,857	18,145	37,002
sport Volume (1 ton-kilometers)	Kit parts and components	7,988	3,900	11,888
,000	Other	1,530	1,506	3,036
	Subtotal	204,697	137,561	342,258
	Vehicles (products)	94,858	51,744	146,602
m	Procurement for production	177,851	118,895	296,746
Energy (GJ	Parts supply	28,985	28,124	57,109
(GJ)	Kit parts and components	15,051	7,029	22,080
	Other	5,385	5,342	10,727
	Subtotal	322,130	211,134	533,264
	CO <sub>2</sub> (t)	22,109	14,491	36,600

\* Measurement: Fuel Efficiency Method

\* Inland vanning: Improving distribution efficiency by using larger transport vehicles on routes between plants and ports and by vanning (loading knockdown cases with parts into freight containers) at packing plants in and around inland areas

### Reduction of Environmentally Hazardous Substances To promote the reduction of environmentally hazardous substances, Isuzu

To promote the reduction of environmentally hazardous substances, Isuzu complies with emissions laws and other relevant regulations while developing and popularizing products with lower amounts of these substances.

#### Overview of Reduction of Environmentally Hazardous Substances

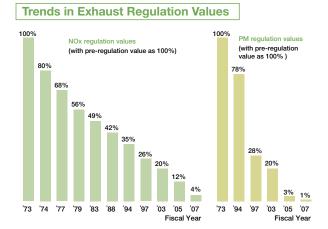
Reducing environmentally hazardous substances in production processes is just the start at Isuzu. We also take the initiative in reducing potentially hazardous substances in products. In fiscal 2009, we will continue to establish systems and make improvements to comply with laws such as the EU directive on recycling of end-of-life vehicles (EU-ELV) and REACH regulations in Europe. With respect to the EU-ELV directive, we have already undergone a preliminary review, which is a common requirement for vehicle certification, and have acquired a certificate of conformance as a company. We have also checked with our clients with regards preliminary registration for the REACH regulations. We are gearing up to establish new systems in response to further anticipated additions to the list of Substances of Very High Concern (SVHC).

#### Reduction of Environmentally Hazardous Substances in Products

#### Regulatory Compliance

Besides the EU-ELV directive and the REACH regulations, Isuzu also has voluntary targets which it has established in an effort to actively reduce the burden on the environment. Mercury, cadmium and lead have been eliminated from all models except in exemption applications, and we are well on our way to completely eliminating hexavalent chromium. In future, we intend to drive forward with initiatives to reduce and eliminate environmentally hazardous substances from exemption models too and faithfully comply with rules on regulated substances which are expected to increase in number.

#### Reducing Environmental Impact With Next-Generation Clean Technology: I-CAS



I-CAS is Isuzu's next-generation clean technology, incorporating the most advanced technologies to meet a wide range of environmental needs in trucks. Three key next-generation technologies are combined: combustion optimization technology, exhaust after-treatment technology, and electronic control technology. As a result, the overall environmental impact of vehicles is reduced.

### Other Ways Isuzu Reduces Environmental Impact Reduction of vehicle noise

Isuzu works not only to comply with the world's strictest noise regulations, but also to reduce noise during idling and city driving. We are also improving the nature of vehicle noise itself. Efforts are focused on reducing engine and drive-train noise, studying optimal sound-damping structures through noise transmission analysis, and R&D on high-performance sound-absorbing and damping materials. This research led to a 2 dB reduction compared with previous models in the idling noise of ELF light-duty trucks released in December 2006.

• Reduction of refrigerants in air conditioners

HFC134a is a non-CFC refrigerant, but because it is a greenhouse gas, we targeted a 20% reduction from 1995 levels. Currently, we have succeeded in reducing refrigerants by an average of 44% per vehicle. We are also phasing in low-GWP refrigerants.

• Reduction of VOCs in vehicle cabins

Isuzu takes measures to cut VOCs<sup>\*1</sup> in vehicle cabins, in line with JAMA voluntary reduction policies and targeting 13 substances designated as hazardous by the Ministry of Health, Labor and Welfare. Light-duty ELF trucks, mediumduty FORWARD trucks, and heavy-duty ERGA<sup>\*2</sup> route buses now meet these guidelines.

\*1 VOC: Volatile organic compound, such as formaldehyde or toluene \*2 ERGA: Measurement assumes use of ventilation fans

#### Reduction of Environmentally Hazardous Substances at Plants

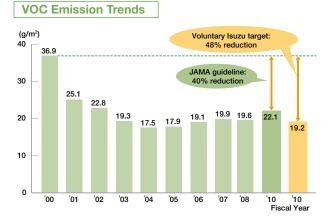
#### Reduction of Controlled Substances at Plants

Reducing volatile organic compounds

Emission of VOCs,\* which are a factor in photochemical oxidants and smog, was restricted in the amended Air Pollution Control Law of 2006. Anticipating regulatory restrictions, Isuzu took the initiative at an early stage to reduce organic solvents used in painting. The Isuzu reduction target of 48% (19.2 g/m<sup>2</sup>, fiscal 2010) surpasses the 40% target established by JAMA. We have made gains by cutting back on paint solvents, recovering thinner, utilizing painting robots, and introducing a drying furnace with exhaust combustion equipment. Despite our somewhat higher emissions in fiscal

2008 from a model change, we will continue to work toward lower VOC emissions.

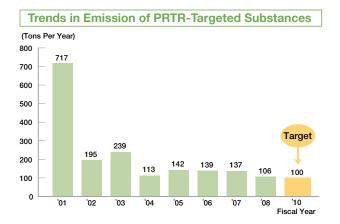
\* VOC: Volatile organic compounds (mainly organic solvents)



 Chemical substance management and response to the PRTR Law

Supplementing official regulations, Isuzu has established an internal management rule for potentially harmful chemicals that classifies substances as prohibited, conditionally permitted, and permitted (but requiring caution) for appropriate management and reduction. In response to the PRTR Law\*, we have designed a chemical substance management system that links purchase management information with a PRTR system. These efforts to understand, manage, and reduce targeted substances have enabled us to reduce emissions in fiscal 2008 by 21% over the previous year. We will continue with our efforts to comply with amendments to the PRTR Law and promote improved management at plants as we pursue further reductions.

\* PRTR (Pollutant Release and Transfer Register) Law: Law to promote an understanding of the amount of particular chemical substances released to the environment, as well as improved management of these substances



#### Prevention of Air and Water Pollution, Regulatory Compliance

Isuzu regards the prevention of air and water pollution as a cornerstone of environmental conservation. Our own standards are stricter than official pollution regulations, and we apply these standards to monitor discharge and emissions constantly. Our Plant Environmental Committee is kept informed of the status of management and regulatory compliance, enabling appropriate action and administration within the framework of our environmental management system.

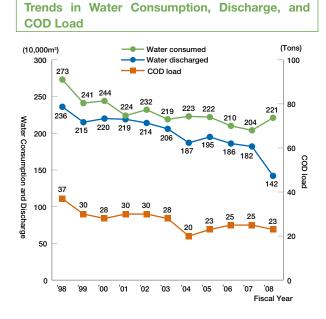
· Preventing dioxin emissions

For safety, the Tochigi Plant has suspended incinerator operations since 2002, and waste disposal has been contracted to an outside firm. At Fujisawa Plant too, incinerator operations was suspended in fiscal 2008 while also instigating efforts to reduce waste and facilitate recycling through more meticulous sorting. We will continue with our commitment to waste reduction so as to cut back on contracted waste disposal volumes.

· Prevention of soil and groundwater contamination

Isuzu has terminated the use of three chlorinated organic solvents\* that were formerly used. We have conducted independent studies on the effect of these solvents on soil and groundwater at plants and offices since 1996 to confirm that no contamination spreads outside from affected areas. We have also taken steps to detoxify affected areas, and we report the results to the government.

 Three substances: trichloroethylene, 1-1-1 trichloroethane, and dichloromethane





# **Recycling Programs**

To contribute to a recycling-oriented society, Isuzu recycles resources and reduces environmentally hazardous substances in upholding "4R"\* practices as much as possible, throughout all stages of vehicle life-cycles from initial R&D to final disposal. \* Four Rs: Refuse to use environmentally hazardous substances, Reduce existing use of these substances, Reuse parts and materials, and Recycle used products

#### **Overview of Recycling Programs**

#### Recycling Overview

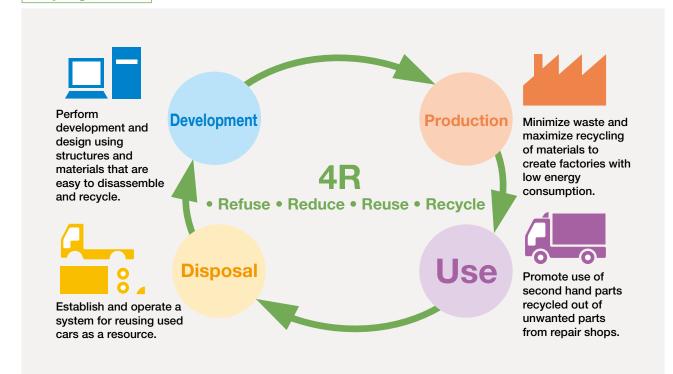
**Recycling Overview** 

With a recycling-oriented society in mind, Isuzu upholds 4R practices throughout product life-cycles, from product planning and research to disposal, as we increase recycling rates, use resources and energy effectively, and reduce our environmental impact.

Seeking a higher rate of recycling for scrap vehicles, we

pursue higher recycling targets than the legal standards established in the Automobile Recycling Law.

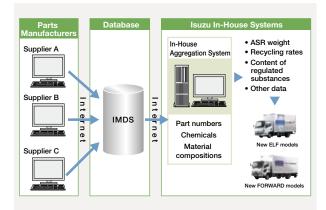
For ASR (shredder dust), we attained recycling rate of 75.7% in fiscal 2008, which represents an early success in surpassing the legal standard for fiscal 2015 (70%). For airbags as well, our recycling rate of 94.9% surpasses the legal standard of 85%. We will maintain and increase recycling rates surpassing current legal standards through effective recycling programs.



#### Applying IMDS Knowledge

To reduce our products' environmental impact and increase recycling rates, Isuzu collects and manages information about the composition of materials in our products, as well as data for chemical substances they contain. The International Material Data System (IMDS) offers information about the material composition and chemical substance content of automobile parts, as collected from parts manufacturers. We apply this knowledge in calculation of shredder dust weight, and the information improves calculation accuracy when determining recycling fees for new ELF and FORWARD models, for example. Careful chemical substance management at Isuzu also supports compliance with the EU-ELV directive and helps us maintain and improve current recycling rates.

#### Schematic Diagram of IMDS



#### Product Recycling: Enhancing Recyclability

Resource depletion and rapid filling of landfills makes the transition from today's open-loop, consumption-oriented society to a recycling-oriented society an urgent priority. This transition requires improvement of social recycling systems as a whole, and as a practical consideration, the development of recyclable products and applications that use recycled material will be critical. Isuzu obviously upholds laws and regulations such as the Japanese End-of-Life Vehicle Recycling Law and ELV-related EU directives, but additionally, we aim for higher standards (e.g. improved recyclability) by developing products using more recycled material than before.

Specifically, our efforts in fiscal 2008 are as follows.

- (1) Expand provisions that encourage recycling at all stages of vehicle life-cycles, from planning to disposal of vehicles.
- ② Consistently use remouldable thermoplastics in plastic parts.
- ③ Find ways to incorporate recycled materials in auto parts.

#### Recycling Achievements under Automobile Recycling Law

In accordance with the Automobile Recycling Law (Law Concerning Recycling Measures of End-of-life Vehicles), Isuzu recycles the 3 designated items (ASR\*, airbags and CFCs). Status in fiscal 2008 is as follows: As a result of actively promoting recycling efforts by contracting out the disposal of airbags and CFCs to Japan Auto Recycling Partnership and joining ART\* to process ASR, in fiscal 2008, Isuzu achieved a recycling rate of 75.7% for ASR and 94.9% for airbags.

Total expenses for the 3 items was 312.55 million yen while total deposits received from the fund management corporation was 262.01 million yen, producing a deficit of 50.54 million yen. We will make greater contributions to the environment and to society by continuing to promote efficient recycling initiatives.

Center console box, made with recycled materials

GIGA heavy-duty commercial trucks Recycled content: 50% or more



FORWARD medium-duty commercial trucks Recycled content: 50% or more



ELF light-duty commercial trucks Recycled content: 40% or more

- \*ASR: Automobile Shredder Residue. Residue left over after shredding scrapped cars and collecting metal. Contains plastics, rubber and other burnable items.
- \*ART: The Automobile Shredder Residue Recycling Promotion Team established with the objective of disposing of ASR. Isuzu disposes of ASR appropriately as a member of this team.

#### Complying With Recycling Laws, Regulations, and Voluntary Restraints

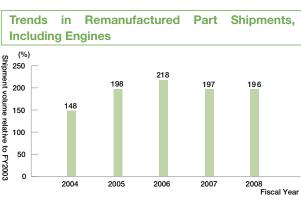
Isuzu underwent and passed the preliminary review for earning recycling certification as a way of complying with ELV-related EU directives. Isuzu is in the process of preparing to undergo assessment for vehicle model-specific recycling certification.

#### Plastics Recycling Technology

Isuzu has developed center console boxes for current-model truck cabins that incorporate plastic bumpers recovered from end-of-life vehicles. At least 40% of these products use material recycled by the market and can be recycled again after vehicle disposal. These products have earned Eco Mark certification from the Japan Environment Association. First introduced in FORWARD trucks in May 2006, the console box was later phased in for GIGA trucks and new ELF trucks. We will continue to develop recycling technology to make the most of limited resources.

#### Remanufacturing

Isuzu dealers are linked to our internal remanufacturing network, enabling us to promote the recycling of ELV components, meet diverse customer needs, and respond promptly to supply requests.



#### Recycling at Plants

Isuzu originally defined "zero emissions" as a 95% reduction (over FY1995 levels) in the amount of industrial waste for landfill disposal by the end of FY2001, an objective we pursued in part through waste reduction. As a result, Isuzu achieved zero emissions in fiscal 2001, with a reduction of 97.6%.

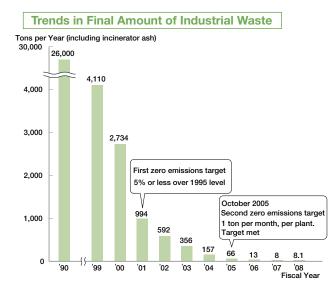
Our next, more ambitious target required each of our two plants to reduce landfill waste to one ton or less per month (or 24 tons or less per year at both plants combined, including incinerator ash) by the end of 2005. We met this target in October 2005.

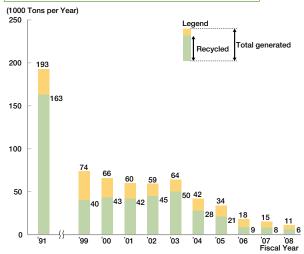
Presently, our target for the final amount of landfill waste has been revised from 24 tons to 12 tons. We continued to recycle incinerator ash in fiscal 2008 and reduced the final amount of industrial waste to 8.1 tons. Furthermore, we have turned off the waste incinerator by enforcing careful sorting and recycling for further reduction of the total amount of waste.

We are also promoting the reduction of related byproducts. After promoting the expansion of zero emissions programs at group companies in Japan and overseas, in fiscal 2008, seven of our companies have succeeded in reducing the ratio of final amount of landfill waste to total amount of waste to less than 1% (4 more than the previous year). We will continue to expand zero emissions activities in the years ahead.

#### Examples of Waste Reduction and Efficient **Resource Use**

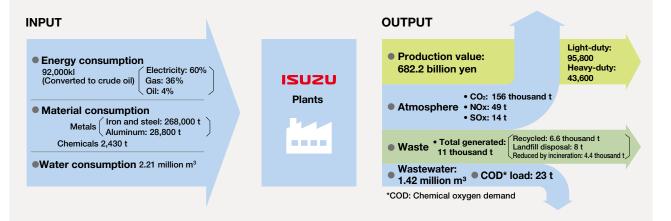
- Careful sorting and collection; recycling after disassembly and scrapping
- · Reduction of the total amount of waste and reduction of related byproducts
- Reduction of regular waste and waste from incineration; use of less wood for packaging
- Recycling of incinerator ash
- · Collaboration with other companies to promote joint environmental declarations with waste operators and zero emissions programs





**Trends in Generated Waste and Recycling** 

#### Material Balance at Production Plants (Input vs. Output Amounts) - FY2008





## Site Data

The following information represents the typical emissions status at the Fujisawa and Tochigi plants, as expressed in primary indicators of air and water quality and the presence of PRTR regulated substances.

#### Fujisawa Plant Address: 8 Tsuchidana, Fujisawa-shi, Kanagawa, Japan

FY2008 Emissions Report for PRTR-Regulated Substances, Fujisawa Plant

	Chemical	Amount	Amount of Emissions				Amount Transferred	
No.		Managed	Atmospheric Emission	Discharge in Public Water	Emission to Soil	Landfill Waste	Total Emissions	Total Transferred
1	Water-soluble compound of zinc	2,700						
16	Diaminoethanol	1,200		16			16	92
30	Bisphenol A epoxy resin	1,200						36
40	Ethylbenzene	16,000	13,000				13,000	7
43	Ethylene glycol	460,000						360
63	Xylene	130,000	64,000				64,000	10
176	Organotin compounds	5,600						220
224	1,3,5-trimethylbenzene	3,800	2,900				2,900	
227	Toluene	31,000	8,200				8,200	
299	Benzene	1,200	3				3	
179	Dioxin		16*				16*	1,100*

#### Air Quality

Item	Facility	Regulatory Value	Actual Measurement Maximum Average	
	Boiler	60**	19	16
	Metal melting furnace	200	50	39
NOx (ppm)	Heat-treating furnace	200	200	147
	Paint drying furnace	230	27	20
	Boiler	0.1	0.0039	0.0034
Dust and soot (g/Nm³)	Metal melting furnace	0.2	0.014	0.01
	Heat-treating furnace	0.2	0.021	0.016
	Paint drying furnace	0.1	0.074	0.012
SOx (Nm <sup>3</sup> /h)	(Regulatory Total)	21.82	0.696	0.485

		-			*mg-TEC	
Water Q	uality		(Disc	harged to H	likichi Rive	
Item		Regulatory Value	Actual Measurement			
ntern			Maximum	Minimum	Average	
pН		5.8-8.6	7.9	7.4	7.68	
COD	mg/l	60	22	9.2	17.18	
BOD	mg/l	60	18	6.4	11.28	
SS	mg/l	90	14	Less than 5.0	6.02	
Oil content	mg/l	5	2.9	Less than 1	1.21	

(Unity ka)

\* The regulatory value used is the more stringent of the Water Pollution Prevention Law and the prefectural regulation.

**Regulatory Value** 

58-86

20

20

40

5

The regulatory value used is the more stringent of the Water Pollution

(Discharged to Nagano River) Actual Measurem

verage

7.2

11.2

6.4

4.0

0.5>

Minimum

7.0

8.6

1.9

2.0

0.5>

kimum

7.5

15.5

15.5

7.0

0.5>

\* The regulatory value used is the more stringent of the Air Pollution

Control Law and the prefectural regulation. \*\*The change in the regulatory value for the boiler is due to a change in fuel type (from heavy fuel oil to natural gas).

• No environmental incidents

Water Quality

Item

mg/l

mg/l

mg/l

mg/l

Prevention Law and the prefectural regulation.

bН

COD

BOD

Oil content

SS

• No environmental complaints

#### Tochigi Plant Address: 2691 Oh-Aza Hakuchu, Ohira-machi, Shimotsuga-gun, Tochigi, Japan

FY2008 Emissions Report for PRTR-Regulated Substances, Tochigi Plant						(Unit: kg)		
No.	Chamical	Amount	Amount Ar		nount of Emissions			Amount Transferred
NO.	Chemical	Managed	Atmospheric	Discharge in	Emission to	Landfill	Total	Total
			Emission	Public Water	Soil	Waste	Emissions	Transferred
40	Ethylbenzene	7,600	7,100				7,100	
43	Ethylene glycol	13,000	270				270	12,000
63	Xylene	12,000	9,100				9,100	
227	Toluene	6,700	3,000				3,000	

#### Air Quality

Item	Facility	Regulatory	Actual Measurement		
		Value	Maximum	Average	
NOx (ppm)	Boiler	250 or lower	92	72	
	Metal melting furnace	180 or lower	65	32	
Dust and	Boiler	0.3 or lower	0.006	0.002	
soot (g/Nm³)	Metal melting furnace	0.25 or lower	0.002	0.002	
SOx (Nm <sup>3</sup> /h)	(Regulatory Total)	17.5	0.89	0.26	

The regulatory value used is the more stringent of the Air Pollution Control Law and the prefectural regulation.

• No environmental incidents

#### • No environmental complaints

Notes

 Period: FY2008 measurement data (April 2008 to March 2009)
 Regulatory values represent the strictest values specified in environmental laws and regulations, ordinances, and pollution prevention agreements. 3) Abbreviations: PRTR: Pollutant Release and Transfer Register Law; COD: chemical oxygen demand; BOD: biochemical oxygen demand; SS: suspended solids in water.

# Isuzu Aims to Become a Company that is Trusted and Respected by Society

Isuzu is committed to engaging in socially responsible business activities, and aims in this way to become a company in which all stakeholders will place their trust and expectations. This includes customers, shareholders, business partners, employees, local communities, and global society. This social report describes Isuzu's relationships with its stakeholders.



P35: Communication with Society



P38: Relationship with Customers



P39: Relationship with Business Partners and Shareholders



P40: Relationship with Employees



# **Communication with Society**

Isuzu works for communication with society while engaging actively in social contribution programs at home and abroad.

#### Social Contribution Programs

#### Social Action Program

Isuzu Heart & Smile Project was established to commemorate the 70th anniversary of the company's founding in April 2007, and we took this occasion to engage in a unique social contribution program of our own in order to repay our debt of gratitude to society. The Isuzu Action Directives call for "sustained efforts from a long-term perspective involving effective utilization of management resources and participation by group employees." With this commitment, Isuzu is engaging in educational assistance for children in developing countries, as well as in environmental protection programs that contribute to the development of sustainable

societies. During fiscal 2008, the second year of this program, we initiated the First Isuzu Mt. Fuji Forestation Project. In Narusawa Village, Yamanashi Prefecture, a



Group photo of Mt. Fuji Forestation Project participants

project is in progress with the participation of the municipal government, enterprises and NGO organizations to rejuvenate defoliated prefectural forests affected by pests and diseases. Isuzu cooperates with this effort by supplying both funding and volunteers for the tree planting activities. In May, 136 of our employees and their family members took part in a planting activity near the 2nd station on Mt. Fuji, planting 1,000 seedlings over an area of 1 hectare.

In November, an educational aid program was launched at

a vocational school for auto mechanics in Tacloban City on the island of Leyte, Philippines. 30 students enrolled for the first class. Besides offering financial support, we will also provide a wide range of advice from an automaker's perspective to help respond to car mechanic needs in the Philippines and expand iob opportunities for underprivileged



Chairman Ida with first class students



Chairman Ida being presented with the Friendship Medal

youths there. Furthermore, the educational assistance program for primary and lower secondary schools in Dien Bien Phu, Vietnam initiated in fiscal 2007 received an award from The People's Aid Coordinating Committee (PACCOM), a subordinate organ of Vietnam's Foreign Ministry, and we were presented with the Friendship Medal in recognition of this achievement at the award ceremony in October. The medal is bestowed on organizations and individuals who have contributed to development and the alleviation of poverty in Vietnam and we were the first business entity/ personnel to receive this honor.

#### Cooperation in Tanabata Light-Down Event

As a way of cooperating with the Cool Earth Day efforts established by the government's Global Warming Prevention Headquarters, Isuzu participated in the Tanabata Light-Down Event held on the eve of July 7, 2008.

The event aims to draw people's attention to energy conservation by calling on illuminated facilities and private homes to simultaneously turn their lights off for 2 hours from 8pm to 10pm. Since we are currently involved in an effort to reduce  $CO_2$  emissions by 1 kg per person per day as part of Team Minus 6% activities, we gave our support for this cause by actively cooperating with the event as a corporate member.

#### Initiatives in Japan

#### CNG Bus Services at Toyako Summit

On request from the Japan Government, Isuzu Motors offered its heavy-duty route bus, ERGA CNG-MPI,\* for service during the Hokkaido Toyako Summit held on July 7 through 9, 2008.

This CNG bus is an alternative-fuel low-pollution vehicle which produces almost no PM emissions and is also low on CO<sub>2</sub> emissions. It attracted much attention during the summit, providing shuttle bus services for government and press personnel to and from the venue and the security checkpoint. Panel exhibits of this bus were displayed at the 2008 Integrated Exhibition of the Environment held in Sapporo in celebration of the summit earlier on in the year for 3 days from June 19, along with the light-duty, ELF CNG-MPI truck. A total of 333 firms and organizations, including

5 automakers from across the country, p a r t i c i p a t e dand exhibited in the event which attracted 83,742 visitors.

Compressed natural gas multi-point injection system



Exhibits at the Hokkaido Integrated Exhibition of the Environment

Participation in Eco-Car World 2008 in Yokohama Eco-Car World 2008 in Yokohama was held at the Red Brick Warehouse Square in Yokohama City in June 2008. This event, hosted by the Ministry of the Environment, the Environmental Restoration and Conservation Agency and the City of Yokohama, introduced eco-cars (low-pollution vehicles) and spearheads promotional and educational activities for

eco-driving. Isuzu exhibited five of its product line including the ELF CNG-MPI truck, the ELF CNG Sagawa Express model and the ELF Hybrid.



Exhibits at Eco-Car World

#### Introducing

**Environmental Technologies at Eco-Products 2008** Eco-Products 2008, one of Japan's largest environmental exhibitions, took place at Tokyo Big Sight in December 2008 and Isuzu's exhibits included the CNG-MPI truck, the latest diesel engine and the Mimamorikun on-line service system. The event, which began with the objective of promoting environmentally-friendly products and realizing an environment-conscious society, marked its 10th anniversary, showcasing various environment initiatives, products, activities and technologies by participating firms under the theme, "We Can Do it! Eco-lifestyle with a 50%  $CO_2$ Reduction". Isuzu's booth featured some fun for young visitors who were invited to play with wooden building blocks made from trees that were culled to strengthen the health of forests. The ELF Design Corner that was set up gave visitors a chance

design their to own truck body graphics usina computerized а system, dynamically presenting the company's commitments to the environment to all age groups.



Children playing with wooden building blocks

#### Opening HaKoBu Community Site

Out of a desire to create more Isuzu admirers and to cherish the invisible bond with our customers, we have recently set up a community site called HaKobu. HaKoBu is intended to be an open, customer-participation style site accepting customer postings and applications at any time after a simple registration procedure. Contents include the "Nadeshiko Driver" featuring interviews on female truck and bus drivers, the "Tsunagi de Kizuna" introducing children's

reports on visits to dealer shops and factories, as well as the "HaKoBu Museum" presenting seasonal photographs and pictures sent in from our customers. Everything from arranging interviews to writing up reports is done by our staff so that they can personally convey Isuzu's appeal. We will continue to expand on its contents so that the site will become even more popular with our customers.

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http://www.i-hakobu.ip/

#### Column

#### Mimamori-kun Wins Minister's Prize for Energy Conservation

In February 2009, the Mimamori-kun online service system developed by Isuzu was awarded the 2008 Energy Conservation Grand Prize from the Minister of Economy, Trade and Industry. Mimamori-kun is an operations management system for supporting safe, fuel-efficient driving that has been modified repeatedly to cater to actual truck delivery needs since its introduction in 2004. It has proved popular with many of our clients. This is the third time that the system has been honored with an award following the 2005 Eco-Products Minister's Prize from the Ministry of Land, Infrastructure, Transport and Tourism, and the Grand Prix and the Minister of Internal Affairs and Communications Prize in MCPC Award 2007.



#### Initiatives in Other Countries

#### Holding Seminars on Fuel-Efficient Driving

Isuzu holds seminars on fuel-efficient driving for dealers and principal users in other countries as a global initiative addressing issues such as environmental preservation and safety. In fiscal year 2008, we held a seminar for bus users in May and a seminar for delivery firms in August in Taiwan, attended by a total of 69 participants.

They were well-received as they helped produce a fuelsaving effect of around 20%, so we plan to arrange for local sales companies to continue to hold these seminars.

In Kenya, we held operating procedures training workshop for sales company staff for the first time in October to help them understand the significance of our seminars. The seminar convened in November for representatives of affiliate dealers and large users also received favorable comments. A seminar was held in August in North America where we have held 4 seminars in the past with some 150

participants. Since a fuel-saving effect of over 30% was reported by most of our customers as a result, we plan to hold these seminars on an ongoing basis as part of our sales promotion activities.



Seminar in North America

#### • Forging Closer Ties through Service Clinics

In order to form ties with new customers and build trust with existing ones, Isuzu has been holding service clinics in which customers are given free vehicle inspections as well as consultation on matters related to maintenance and vehicles. In December 2008, vehicle checkups, free oil and filter replacement on 200 cars, and a 40% discount from normal prices on vehicle parts were offered in Oman. The number of participating vehicles at the clinics is on the rise with 299 vehicles coming in for consultation in 2006 and 381 vehicles in 2008. Since they have proved very effective in improving the popularity of dealers that held clinics and in marketing

promotion, we hope to attract more vehicles by seeking to improve our clinic services.



Service clinic poster

#### Participation in Forest Revitalization Project in the Philippines

Isuzu Philippines Corporation (IPC) has been carrying out various social contribution programs as part of the company foundation anniversary celebrations. Further to our donation of seedlings for planting in Manila, Cebu Island, and Davao in 2007, from 2008 we have decided to participate in the reforestation project in the La Mesa Dam Watershed. This is an environment project headed by the ABS-CBN Foundation, Inc., and IPC will help grow seedlings to plant

over an 11-hectare area for the next 3 years. In August, a commemorative ceremony for the project was held at a park in the La Mesa Dam Watershed and was rounded off with a planting ceremony.



Participants of the reforestation project

#### Family Day in Vietnam

As a symbol of our gratitude to our customers, Isuzu Vietnam Co.,Ltd. (IVC) hosted a family day at its dealers in Ho Chi Minh City in January, in Can Tho in February, and in Hanoi in March 2009.

In addition to providing a buffet-style dinner, singers and magicians were invited for guests to enjoy the show and have fun dancing. The lively attractions on the day included games with IVC's official mascot FORWARD MAN, prize draws and drawing competitions for children. Each year, the event attracts between 300 and 400 participants and has proved very popular. Dealer and IVC employees participate actively in the event to help raise customer satisfaction levels.



Family day event



# **Relationship with Customers**

Isuzu incorporates the results of communication with its customers in developing better products and services.

Daily feedback is shared throughout the entire Isuzu Group.

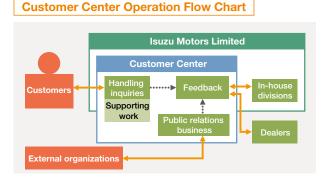
#### Isuzu Customer Center

Isuzu has established a Customer Center to receive customer inquiries and comments about our products. During fiscal year 2008, we received about 17,000 inquiries and comments through our toll-free telephone service and e-mail.

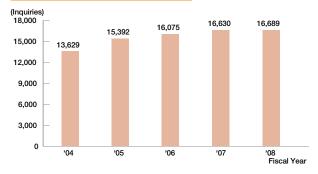
There were a total of about 1,000 inquiries on environmental matters, of which 80% or more were about exhaust emissions regulations.

In particular, there were many inquiries concerning prefectural regulations in Tokyo and Saitama as well as the regulation which came into effect in Osaka Prefecture in January 2009.

In view of the increasing level of social awareness for environment issues, we intend to take each comment from our customers seriously as a guide for our future activities. Many words of encouragement were received as well from loyal users of Isuzu vehicles. Frequently asked questions are posted on our website for more convenient access. Customer inquiries and comments are shared throughout the entire Isuzu Group, and are used as feedback in product development and operating activities. We will continue responding promptly to the feedback we receive from our customers.



#### **Changes in Inquiry Numbers**



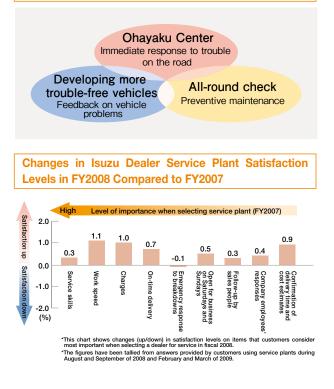
#### Survey of Customer Satisfaction with Isuzu Dealer Service and Zero Road **Trouble Campaign**

To create attractive service plants, we regularly conduct surveys on customer satisfaction with Isuzu dealer service. Some 37,000 customers were asked to take part in the survey in fiscal year 2008, and about 5,800 responses were received.

The results indicated that customers tend to place great importance on efforts to minimize vehicle operation stoppages such as work speed, on-time delivery and emergency response to breakdowns. In response to these customer needs, Isuzu is conducting a Zero Road Trouble Campaign aimed at preventing on-the-road breakdowns which hinder customer vehicle operations. This campaign is focused on three activities: an all-round check of vehicles in which they are inspected mainly for possible breakdown factors when brought into dealership service plants; Ohayaku Center\* rapid-response services in which aroundthe-clock emergency action is taken for breakdowns; and efforts to feed back the causes of road accidents to the development divisions without delay so as to develop more reliable vehicles. Isuzu will continue implementing activities to respond to customer feedback via satisfaction surveys so that more of our customers will be satisfied with the service we provide.

Ohayaku Center: A support center with operators standing by 24 hours a day, 365 days a year, to answer emergency calls about breakdowns or traffic accidents. Daytime calls on weekdays are referred to the nearest dealer

Three Mainstays of Our Zero Road Accident Campaign





Isuzu is working with suppliers and other business partners both inside and outside Japan to address environmental issues, while also strengthening measures to meet shareholder expectations.

#### Relations with Business Partners

#### Basic Philosophy

Isuzu conducts procurement according to three basic policies:

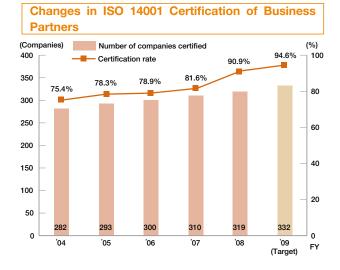
- 1. With quality as a first priority, we seek to create and offer products that satisfy customers.
- We aim to procure domestic or overseas products, under fair competition, if they are satisfactory in quality, pricing and delivery.
- 3. With the benefit of our customer as the top priority, we act for the good of the public and society, with the greatest concern for people's lives and safety, and always with respect for human rights, while working with our business partners to act in accordance with compliance programs.

#### Specific Measures

- Take thoroughgoing measures to collect material data under the management system for component materials and chemical substances.
  - → Act in accordance with laws and regulations in Japan and other countries
- Amend and initiate application of Isuzu's new regulations on chemical substances
- → Reflect additions to the list of prohibited materials.
   Extend application of the environmental management
- system
  - → Business partners acquire ISO 14001 certification or construct environmental management systems equivalent to ISO certification, such as Eco-stage/ Eco-action 21

#### Assessment of Present Status and Outstanding Issues

We will continue to upgrade and implement our management and operational system (Isuzu environmental management system) for environmental impact substances.



#### Relationship with Shareholders

#### Basic Philosophy

We promote the following activities to gain our shareholders' trust and meet their expectations:

- 1. We aim to continuously post profits from appropriate business activities, as well as to achieve long-term growth and raise corporate value.
- We assure management transparency and fulfill accountability through appropriate and timely disclosure of management information.
- 3. We determine profit distribution in light of returning profits to shareholders, strengthening the management base, and preparing for future business operations.

#### Major Activities

Starting from the 2006 regular shareholders meeting, a system to enable shareholders to exercise their voting rights over the Internet was introduced for their greater convenience. We are committed to disclosing corporate information promptly and fairly to our shareholders and investors. For this purpose, we hold regular briefings for analysts and institutional investors, and we post IR<sup>\*1</sup> information on our website. Isuzu has been awarded the prize for the company with the best IR website for five consecutive years. We are also distributing our annual report through the IR Hotline<sup>\*2</sup> in order to make a broader range of Isuzu activities more widely known. In future, we intend to continue upgrading the Isuzu IR website and promote transparent, fair and continuous disclosure of corporate information.

\*1 IR (Investor Relations): Activities to provide information necessary for making investment decisions to investors in a fair and timely manner. \*2 IR Hotline: http://www.irhotline.com/



http://www.isuzu.co.jp/investor/index.html



# **Relationship with Employees**

Employees are Isuzu's most precious asset, and we aim to realize a working environment where they can do their jobs in good health and good spirits.

#### Creating Safe and Sound Workplaces

The Isuzu safety and health concept states that safety is created through the united cooperation of all employees. On this basis, Isuzu is striving to create a safe and lively workplace that is free from accidents. We will continue promoting the creation of a workplace that ensures employee safety by adhering to guidelines, supporting compliance programs, improving facilities, and reinforcing health management. Our ongoing efforts emphasize preventive measures. Our specific themes are the prevention of industrial, traffic, and fire accidents; the improvement of the workplace environment; and the promotion of health. Isuzu has set up a system to address mental health concerns by outsourcing counseling services that employees can use on an individual basis. We plan to deploy a company-wide program for education of managers (supervisors) in mental health issues.

#### Key Issues and Initiatives

Key Issues	Initiatives
Prevention of industrial accidents	<ul> <li>Increase in safety knowledge and awareness</li> <li>Ensure safety during work (Review procedure manuals, instruction in work safety, etc.)</li> <li>Confirm intrinsic safety of production facilities</li> </ul>
Prevention of fire accidents	<ul> <li>Appropriately maintain and control facilities and equipment that use hazardous materials</li> <li>Understand and eliminate factors causing fire accidents</li> </ul>
Prevention of traffic accidents	<ul> <li>Prevent traffic accidents of commuters by car and motorcycle</li> <li>Improve traffic safety awareness campaigns</li> </ul>
Health promotion	<ul> <li>Industrial physicians interview employees with excessive overtime</li> <li>Implement training of mental health administrators</li> </ul>
Improvement of work environment	<ul> <li>Continue performing environmental evaluation during safety assessments</li> <li>Promote creation of comfortable work environment</li> </ul>

#### USE21: A Voluntary Employee Activity

USE21 is a voluntary activity engaged in by non-clerical employees from the engineering division. Members are divided into several focus groups that are actively engaging in programs to achieve workplace safety and comfort by preventing workplace accidents, traffic accidents and fires, educating younger employees, and improving product quality and technical skills. Each group engages in education through lectures and practical training, as well as safety programs. The safety and health group holds first-aid workshops for emergency preparedness; the industrial accident, fire and disaster prevention group carries out workplace safety patrols and gives tours of the Atsugi Disaster Prevention Center (hands-on training); and the traffic safety group holds seminars on how to adjust rear-view mirrors and ensure visibility to show the importance of having them on both sides. They have contributed significantly to the prevention of workplace accidents.

The exchange group is carrying out regular recreational activities to promote exchange and good health among USE21 members. During fiscal year 2007, the use of automated external defibrillators (AED) was added to the content of basic first-aid courses. In fiscal year 2008, the groups have initiated and are continuing to provide support for quality control education to incoming employees.

#### Promoting Total Health

We are promoting mental and physical health among our employees and their families, with a focus on the prevention of lifestyle diseases. Health guidance and ongoing support is provided to those who need to improve their eating and exercise habits. We have also initiated a system that enables employees to receive 24-hour telephone health counseling as well as mental health counseling from outside specialists. In order to aid early detection of illnesses, we encourage medical examinations by providing financial assistance for complete medical checkups and breast cancer examinations etc. In addition, we are conducting campaigns that focus on building health among employees and their families. Many families took part in the Gargling and Washing Hands campaign, as well as the Tooth Brushing campaign. These events not only help to build health, but also promote family communication.

Health Promotion Center Activities	FY2008 Results
Complete medical check-up	4,549 persons
Mental health counseling	30 persons
24-hour telephone health counseling	254 persons
Participants in recreational sports	675 persons
Home visit to the elderly	50 persons
Seminar participants	85 persons
Lifestyle disease prevention, Gargling and Washing Hands campaign, Walking Challenge event etc.	2,129 persons

#### Promoting Employment with an **Emphasis on Diversity**

Isuzu has been engaged in revising the personnel system to accord with the amended laws, and we have been working to put operational updates into effect. We are realizing equality between male and female employees in everything from hiring to compensation. We are actively promoting people with strong motivation and excellent abilities to work in a global society, and we have assigned management and overseas posts to female employees, as well. With a view to supporting child rearing, we have created a childcare leave system that provides longer leave than legally required so that women can have more opportunities to work productively in society. The legally mandated childcare leave is for one year and six months, but Isuzu allows a maximum of two years and six months of absence for child rearing. Isuzu is also promoting the employment of people with disabilities with the aim of realizing a society where all people with and without disabilities can support each other.

Changes in Rate of Employment of Disabled Persons											
(%) → Statutory Employment Rate 2.50 Isuzu Employment Rate Average of Private-Sector Companies											
						2.15					
2.00	1.83	1.85	1.85	1.94	2.04		2.03	1.90	1.82	1.83	1.80
	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
1.50	1.48	1.49	1.49	1.49	1.47	1.48	1.46	1.49	1.52	1.55	1.59
1.00	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007 Fisc	2008 cal year

Changes in Childca	(Unit: Persons)		
	FY2006	FY2007	FY2008
Men	1	0	0
Women	23	22	19
Total	24	22	19

#### Changes in Regular Hiring Intake

Change	s in Re	gular	Hiring I	ntake	(L	(Unit: Persons)		
			FY2006	FY2007	FY2008	FY2009		
Clerical and technical staff	Clerical	Men	21	24	24	34		
		Women	10	5	7	6		
		Total	31	29	31	40		
	Technical	Men	107	90	116	93		
		Women	2	0	3	4		
		Total	109	90	119	97		
	Total	Men	128	114	140	127		
		Women	12	5	10	10		
		Total	140	119	150	137		
Professional staff Wor		Men	260	181	175	146		
		Women	10	6	3	4		
		Total	270	187	178	150		
Regular Hiring Intake Total		Men	388	295	315	273		
		Women	22	11	13	14		
		Total	410	306	328	287		

#### Personnel Development

Isuzu considers it important for the company's employees to make the most of the abilities they possess, and in doing so to achieve results for the company. Recognizing that increasing the individual's abilities is linked to raising collective achievements and thus Isuzu's achievements, we have been pursuing a variety of educational programs for employees. Even though different positions and jobs may require different qualities, we offer support to improve employees' performance through various training activities. The purpose is to have them acquire the knowledge and insight required to survive in this competitive world. The company motivates employees to build their own careers and provides management personnel with opportunities to communicate with their subordinates regarding career building so that they can practice career-oriented management. Isuzu has a system in place to provide follow-up on these efforts, and it is proving useful in fostering people's awareness of their particular roles as well as in invigorating communication. Isuzu also has a "job challenge system" (an in-house freeagent system) to help employees tackle challenging jobs on their own responsibility and achieve self-improvement. Under this system, personnel reassignments can take place at the employee's request. In fiscal year 2009, we will direct our attention on the "Isuzu Mind" and "Communication Skills" parts of the skill map with the key phrase being "Continuity and Depth".

			(Unit: Persons)
	FY2006	FY2007	FY2008
Training by job role	1,031	928	1,125
Career design	66	80	150
Business skills	443	759	490
Human skills	127	174	375
Special training	210	278	193
Language training	119	46	96
Total	1,996	2,265	2,429

### Changes in Number of Persons Receiving Training

#### Skill Map



## Third party opinion

For an unbiased perspective on this report, independent, third-party opinion was obtained. These views will be considered in ongoing efforts by Isuzu toward the creation of a sustainable society.



Jiro Adachi Executive Director, Japan Center for a Sustainable Environment and Society (JACSES) (NGO)

In my third party opinion last year, I encouraged Isuzu to "make significant gains in developing innovative, next-generation vehicles and engines." Reading through the feature article on the ELF model and the section on Environmental Goals and Achievements, I was able to see that steady progress has been made in the development of hybrid buses and electric cars and other active commitments. I also suggested that the company do even more to contribute to communities overseas. In this regard too, I am glad to learn of increased activities as typified by the educational aid program in the Philippines for the ISUZU HEART & SMILE PROJECT.

There were many more notable achievements such as contributions to environmental efforts in distribution through the Mimamori-kun online service, winner of the Energy Conservation Grand Prize from the Minister of Economy, Trade and Industry, and attainment of environmental targets at corporate plants. These achievements are the product of Mr. Hosoi's leadership in continuing to make trucks that are kind to the environment and to society so that Isuzu continues to be the customers' choice, coupled with the ardent efforts of Isuzu's management and staff who have worked hard to meet these requirements.

In the face of growing political concern over climatic changes both domestically and overseas, deterioration in the economy and employment situation in Japan and on a global level, and other changes in social conditions, I would like to make the following recommendations in the hope of seeing a better society that exists in harmony with the environment and further advancement by the company. Firstly, from an environmental perspective, we have recently witnessed the birth of a new government which has hammered out enthusiastic mid-term goals on greenhouse gas emissions and is expected to introduce emissions trading and environment tax systems in Japan. We are on the threshold of an era when we can anticipate that businesses will find it difficult to survive and expand without being environmentally conscious. Companies will come under increasing pressure to excel over other firms in the industry in terms of environmental commitments. My recommendation to Isuzu, therefore, is to consider obtaining further evaluation from specialists and assessment organizations with respect to its achievements as well as short-term and mid to long-term targets for production, plant development and environment management. This will help shed light on Isuzu's strengths and weaknesses in relation to other companies which can then be used to set targets and implement realization schemes. Setting practical targets by incorporating the views of specialists and assessment bodies will serve to enhance the company's transparency and social credibility.

My second recommendation concerns social aspects. I encourage Isuzu to expand its scope of overseas social contribution activities even further to boost confidence abroad. Doing so will undoubtedly generate new customers too. In addition, efforts to maintain and promote employment as a corporate social responsibility have recently come under closer public scrutiny in view of the worsening employment situation. I feel that presenting further details on your perseverance and future goals (plans) in these areas will be important in improving Isuzu's social credibility.



#### **Environmental & Social Report 2009**

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