

ENVIRONMENTAL AND SOCIAL REPORT 2009



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About Environmental and Social Report 2009

1. Editorial Policy

This Environmental and Social Report summarizes the environmental management and preservation activities of the MES group in the 2008 fiscal year with reference to the "Environment Report Guideline" issued by the Ministry of the Environment. This report also gives a considerable portion referring to our corporate governance, social contributions and other social aspects. Latest topics on our products, business operations and services which contribute to the global environmental preservation are also introduced. We expect that many photos and diagrams and attentive design will make this report easier to read and approach.

2. Period Covered

This report covers MES group's environmental activities from April 1, 2008 to March 31, 2009.

3. Scope of Coverage

This report covers the activities of MES and its subsidiary companies. The environmental performance data included in this report covers all works of MES and its subsidiaries in Japan.

Message from the President



As being "Monozukuri Company" with earth-conscious, reliable technologies

and cranes.

Financial crises since last year trigged by the US subprime mortgage crisis, leading to the global financial and economic instability, have given serious impacts on real economy and resulted in the simultaneous recession in the world. However, such crises offer challenge and we make a difference and position ourselves apart from the rest by energy-saving technology and earthconscious products/services to get through such economic hardship and will achieve "100th Anniversary Vision."

While long-term targets for the reduction of greenhouse effect gases were discussed at the G8 Summit in L'Aquila and other international conferences, we, as a member of the society, have been continuously pursuing the development of effective products to reduce CO₂ emission for the prevention of global warming. Recently, we have delivered "the world's largest-class ore carrier" fully loaded with energy saving equipment, and this carrier won the "Ship of the Year" prize awarded by The Japan Society of Naval Architects and Ocean Engineers. Moreover, we have commercialized and proudly added to our product portfolio, "highly-efficient, electric-controlled diesel engine," which attains the highest fuel consumption efficiency, and "Hybrid Transtainer," a container yard transfer crane, which obtains the 50% reduction in fuel.

The field of our business has broadened to the biomass power plants which require no fossil fuel and bio-ethanol production plants using plant-derived fuel. Furthermore, we are currently developing a new type of raw materials for the lithium ion battery to climb out of the dependency on fossil fuels.

With good corporate citizenship in our heart, we are dedicated to our tasks ahead together with stakeholders, employees and local communities and, first and foremost, with our earth-conscious products and service useful for society and people. Your continuous supports will be greatly appreciated.

Y. Katsh

Yasuhiko Katoh, President, Representative Director Mitsui Engineering & Shipbuilding Co., Ltd.

Declaring the corporate philosophy of being a "Monozukuri" company trusted by society and its people and being committed to an achievement of sustainable society, we bring out to the world various environmentrelated products and services, and biomass power plants are just an example of such business of ours. As being a "Monozukuri" company, we are focusing on developing earth-conscious products with higher efficiency and lower energy consumption particularly in our main products: the shipbuilding, diesel engines,

Company Philosophy, Management Policy and Standard of Conduct

On the occasion of the 75th anniversary of the foundation, MES set out a "Company Philosophy". On April 1, 2005, it renewed Company Philosophy and established Management Policy and Standard of Conduct in association with the new Company Philosophy. This is in line with the recent rapidly changing management atmosphere where the demand for Corporate Social Responsibility (CSR) is increasingly required. MES group is big group made of MES and its 121 subsidiaries (83 subsidiary companies for the consolidated account of MES and 38 affiliated companies subject to equity law) and the group is more and more required to have a common Company Philosophy to be shared by every and all such companies. Furthermore, it is very necessary to make the clarification of "Standards of Conduct" in order to change the corporate culture, "Management Policy" showing the direction of management form the organization and human resources to cope with the rapid changing society and "Standards of Conduct" showing what the employees are ought to be. Company Philosophy, Management Policy and Standards of Conduct set out on April 1, 2005 are as follows:

Company Philosophy "To continue working as a company trusted by society and individual through products and services we offer"

Management Policy

- Build further satisfaction for our
- customers • Provide safe and effective workplace
- environment for employees
- Contribute to the development of society
- Pursue a profit for the longevity of the company

Standard of Conduct

- Customers' Viewpoint • Excellence as motive and objective
- Determination of action
- Speed of action
- Leadership in action Work as a team
- Improvement
- Compliance
- Partnership with the local community

100th Anniversary Vision

Taking opportunity of the 90th anniversary of foundation, MES has formulated "100th Anniversary Vision" to continue development for the next ten years and thereafter. Catchphrase of the 100th Anniversary Vision is "Towards the Hopeful Future with the Creditable Technology beyond 100 Years". In this "100th Anniversary Vision", we have indicated what we ought to be after ten years. First target is that "We will become a company known to the world with a creditable corporate brand sending environment-friendly products and services New gentle to the earth based on high technological capability". Second **Business** target is that "We will be re-born as a company having strong NGH business portfolio with the growth of new businesses, where people and company continue to progress coping with the High Bio environmental change and contribute to the society and Growth cascade will have the management with emphasis on CSR". New envi. We aim at being such a company that its employfriendly Envi.and products and ees are united to upgrade the mind and energy-saving Inforservices skill, ensure high profit and growth equipment mation and adjust themselves to changes Container communi in the environment, to perform logistics cation Core the corporate social Diese responsibilities by Business Semiconengine growth spiral to Industrial compoductor-related enhance the nents machinery equipment company's Diesel engine creditability Ocean Social Power and comdevelopment infraelectropetitive structure nics edge. Plant Shipbuilding engineering Envi:Envilonmental envi-envilonmentally

Business Fields after 10 years

Corporate Profile and Business Activities

Mitsui Engineering & Shipbuilding Co., Ltd.

Business growth

rate

 Date of Foundation Date of Establishment Capital 	November 14, 1917 July 31, 1937 44,385 million yen					
 Head Office 3-16, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-0027, Japan Phone: 81-3-5202-3147 (Public Relations Dept.) Kasai Center ST Nishikasai Building, 4-6, Nishikasai 8-chome, Edogawa-ku, Tokyo 134-0088, Japan Phone: 81-3-3675-2819 						
 Tamano Works 1-1, Tama 3-chome, Tamano, Okayama 706-8531, Japan Phone: 81-863-23-2010 Chiba Works 						
1, Yawatakaigandori, Ichihara, Chiba 290-8531, Japan Phone: 81-436-41-1112 Oita Works 3, Hiyoshibaru, Oita 870-0395, Japan Phone: 81-97-593-3111						
Consolidated Turn Over according to Business Segment (for the fiscal year of 2008)						
Plant 96.5 Billion Yen 14.0% Machinery 197.0 Billion Yen 28.7%	Others 22.4 Billion Yen 3.3% Ships 310.9 Billion Yen 45.3% Steel Structure 59.9 Billion Yen 8.7%					
Consolidated Turn Over / Ordinary Profit (in 100 million Japanese Yen)						



7.000

Major Subsidiary Companies included in **MES Consolidated Account**

Ships

 MODEC Inc. for design, manufacturing and installation of offshore equipment •Sanzo Enterprise Co., Ltd. for sales and leasing of ships and other equipment

Steel Structure

•Mitsui Zosen Steel Construction Co., Ltd. for assembly and installation of steel structures such as bridge, water gate and others

 Paceco Corp. for maintenance of Paceco crane trademark, development, engineering and sales of Paceco cranes

Machinery

•Burmeister & Wain Scandinavian Contractor A/S for construction of diesel engine power plant on land •Mitsui Meehanite Metal Co., Ltd. for production and sales of cast good

Plant

 Mitsui Zosen Plant Engineering Inc. for planning, design, procurement and installation of chemical, power and environmental plants

Others

•Mitsui Zosen System Research Inc. for development and sales of computer software

(Note) As of March 31, 2009, subsidiary companies of MES for consolidated account are 83 including above 8 major companies, and 38 companies are subject to equity law.

Transition of Employee Numbers

(as of end March)



MES Turn Over / Ordinary Profit on Non-consolidated base (in 100 million Japanese Yen)



Works

Status of Environment in Our Management

MES laid out in 1999 "Environmental Charter" which is composed of "Basic Principles for the Preservation of Global Environment" and "Guidelines for Management of Global Environmental Preservation" in order to rank the environment as an important pillar of its management. In 2002, MES set out "2010 Vision" representing what it ought to be or what it wants to be in 2010. Under a rapid change in management environment represented by the development of emerging nations, rapid increase of oil price etc., MES formulated "100th Anniversary Vision" taking the opportunity of its 90th anniversary of foundation to indicate what MES should be after ten years. In this centenary vision, the main managerial target is that "MES will become a company known to the world with a creditable corporate brand sending environment-friendly products and services gentle to the earth based upon high technological capability". Following products and services are the examples of what MES is offering to the society, by which MES aims "Corporate Management in harmony with Society and Economic Efficiency putting an emphasis on the Environment."



Environment Administration Organization

The environmental administration organization of MES is shown as below. The organization is under the command of the president of MES to secure that MES goes about its business in order to be an environmentally friendly company.

How We Enhance Environmental Management System

Tamano Works of MES acquired authentication of ISO14001 in October 2000, and Chiba and Oita Works of MES acquired it in September 2001. All the works of MES have renewed their authentication of ISO14001 to 2004 version in the fiscal year of 2005. In the 2008 fiscal year, periodical biannual surveillances were conducted by an external certification body in Tamano, Chiba and Oita Works and the satisfactory operating condition of the system was confirmed. Photos show the renewal examination scenes in Tamano, Chiba and Oita Works.

How We Promote Environmental **Preservation**

Considerations to environmental preservation such as energy saving, reduction of CO₂ emission and wastes, or strict control of chemical substances in production activities are particularly important for MES as a manufacturing company. All its works are respectively exerting intensive efforts for these activities.

Energy Saving and Reduction of CO₂ Emission CO2 emissions and total energy and power consumption

by all works in the past five years are shown in the graphs below. Ships and marine diesel engines (core products of MES) have been continuing high level of operation in these

years. Energy saving activities are being promoted and the total energy consumption increased in the 2006 fiscal year but was about the same in the 2007 and 2008 fiscal vears.

We have in-house power generation facilities. Fuel used for these facilities was changed from heavy fuel oil to natural gas in the 2007 fiscal year as a part of activities to promote the CO₂ reduction. These activities were further promoted in the 2008 fiscal year but the CO2 emissions were a little increased

because of the increase of the CO₂ emission factor resulting from the Nuclear Power Plant (NPP) shutdown of electric power companies.

CO2 Emission (unit: 10k ton)

Note 1:

 Calculation of Emission Amount According to the "Guideline for Calculation of Greenhouse Gas emitted by Enterprises" published by the Ministry of Environment

• CO₂ Emission Coefficient for Electric Power The CO₂ emission coefficient for electric power for fiscal years 2008, 2007 and 2006 is in compliance with the "CO2 emission coefficient according to the Electric Enterprises" published by the Ministry of Environment on December 19, 2008, September 27, 2007 and March 23, 2007 respectively. Meanwhile, for fiscal years of 2005 and 2004, the CO2 emissions are calculated in compliance with the "Average emission coefficient in fiscal year 2002 of all power sources at demand terminal by general electric power companies" published by the Federation of Electric Power Companies of Japan (i.e. 0.407kg-CO2/kWh).

Note 2:

CO2 emissions from fuel for the electricity sales are excluded from the 2009 edition

1,600 1,400 1,200 140,000

1,400 1,200 1,000

Total energy consumption (unit: TJ^(*))

* = TJ: Tera Joule (=10¹²J)

Purchased electric power (unit: 1,000 kWh)

Effective Use of Water Resources

Water usage in all works in the past five years is shown in the graph below. We use the civil water (purified water) and intermediate water (industrial water) supply. High level of operations was maintained in the 2008 fiscal year. We made efforts, however, to save water and reduced the water usage by about 1% compared to the previous year.

Water Consumption (unit: 1,000 m³)

Waste Reduction

Illegal dumping of industrial waste is drawing attention as a social problem. MES, as a producer of industrial waste, is doing its utmost to fulfill its obligation. As one of such obligations, MES is making strict Manifesto Management in which MES makes periodical on-site inspection of waste processors as shown in the picture (right). Furthermore, in order to reduce the waste amount, which is essentially important for waster management, MES is making a thorough segregated recovery of waste and recycling. Graphs below show the wastes generated in all works, recycle rate in the past five years and break-down of wastes in the 2008 fiscal year. We strived to reduce the generation of wastes in the 2008 fiscal year but generation of wastes increased by about 7%. Rate of recycle decreased by about 1% to about 91% because some of waste treatment service providers were changed. We will

Proper Control of Specified Chemical Substances (PRTR Substances)

Main specified chemical substances we are using are solvents and pigments contained in paint. Transition of output and travel amount of specified chemical substances in the past five years and breakdown of chemical substances in the 2008 fiscal year

Specified Chemical Substances (amount of emissions + travel amount) (unit: ton)

further attempt to improve the waste reduction and recycle rate. Proper treatment of wastes under strict control will be continued.

Scene of spot inspection in industrial waste disposal service provider

Breakdown of Wastes generated in 2008 Fiscal Year

are shown in the graphs below.

"Air Pollution Control Law" was partially modified in May 2004. We are committed to make a strict control of the substances in line with such modified law and will make a positive use of airtight containers etc., by which we will try to reduce the amount of emission.

Breakdown of Specified Chemical Substances (amount of emissions + travel amount) in 2008 Fiscal Year (unit: ton)

• Environmental Management Activities of Works

Tamano Works is the major production site of MES. General merchant ships, ships of governmental and other public offices, diesel engines, industrial machines and various other machines are manufactured in this Works. With the recent increase of marine transportation, production of marine diesel engines is increasing. Accordingly energy consumption for the operations of plant facilities is increasing and the wastes generated also show a tendency towards an increase. Under these circumstances, aggressive approach is being continued for energy saving and waste reduction to lessen environmental loads resulting from these production activities. Examples are shown below.

• Energy-Saving Activities

We are striving for energy-saving operations of various facilities according to our energy-saving management standards. An example of cranes around the building berth is presented here.

In the shipbuilding assembly, crane capacity was increased to lift larger and heavier blocks, which eventually decreased the crane operating frequencies per ship, contributing to the energy saving.Photo below shows a crane lifting shipbuilding block.

Steel Scrap Reduction Activities

Large quantity of steel materials (steel plates) are purchased for ships from steel manufacturers for cutting and processing.

These plate materials are effectively used in the shipbuilding site as described in the following example. Steel plate purchased from steel manufacturer are cut for block materials in order to minimize end pieces. End pieces generated at this time are

transferred by magchuck and stored in a temporary depo-

Environmental Part

sitory. Small materials pieces are cut out also from these end pieces to minimize scrap amount.

After all possible plates have been cut out, all end pieces are recycled in foundries or steel mills through scrap processors. Photo above shows an example of steel plate cutting site.

PCB Control

Used electrical articles containing PCB are properly stored and controlled in an exclusive- use warehouse of each works according to the Specifically Managed Industrial Waste Storage Standard as specified by the Waste Disposal Act.

Last year, electrical articles containing PCB which had been stored in the former Osaka Works were carried to Japan Environmental Safety Corporation (JESCO) and treated for detoxification.

The photo below shows the carry-out scene.

Electrical articles containing PCB which had been stored and controlled in the head office were carried to Chiba Works at the time of temporary transfer of the head office and have been properly stored and controlled in the warehouse for exclusive use.

Promotion of Environment-Friendly Transportation

We are actively promoting the energy saving efforts in the transportation field as a cargo owner also. Such efforts include enhancing loading ratio, reduction of shipping services by integrating schedule, destinations, etc., or increasing the use of mixed loading services to save energy and reduce CO2. The graph below shows our transportation volume (ton-kilometers), energy consumption and CO2 emissions in the past three years. Transportation volume reduced in 2008 and 2009 in comparison with the previous years and the CO2 emissions reduced accordingly.

CO2 Emissions in Transportation (unit: ton,10k ton-kilometers)

Environmental Administration Data of Subsidiary Companies outside of MES Works Environmental management data of our domestic subsidiaries with factories outside of MES works is shown below. A steel fabrication company has been added since the 2005 fiscal year.

(a) Energy saving and reduction of CO₂ emissions

Energy consumption increased in the 2004 through 2007 fiscal years but decreased a little in the 2008 fiscal year. CO₂ emissions showed almost the same tendency but decreased in 2007 than in the previous year under the influence of the CO₂ emission factor of the electric power companies.

Calculation of Emission Amount: According to the "Guideline of Calculation of Greenhouse Gas emitted by Enterprises" published by the Ministry of Environment.
 CO2 Emission Coefficient for Electric Power: The CO2 emission coefficient for electric power for fiscal years 2006, 2007 and 2008 is in compliance with the "Emission Coefficient according to the Electric Enterprises" published by the Ministry of Environment on March 23, 2007, September 27, 2007 and December 19, 2008 respectively. Meanwhile, for fiscal years of 2004, 2005, the CO2 emissions are calculated in compliance with the "Average emission coefficient in fiscal year 2002 of all power sources at demand terminal by general electric power companies" published by the Federation of Electric Power Companies of Japan (i.e. 0.407kg-CO2/kWh)

Total energy consumption (unit: TJ)

Purchased electric power (unit: 1,000 kWh)

(b) Effective use of water resources

Water consumption decreased in the 2006 fiscal year but increased in the 2007 fiscal year because of the increase of ship repair operations. Efforts were made to save water and the water consumption reduced in the 2008 fiscal year.

Water Consumption (unit:1,000 m³)

(c) Wastes

Wastes increased until the 2007 fiscal year and decreased in the 2008 fiscal year. Our domestic subsidiaries include companies of different categories from MES such as cast and forged steel manufacturing and ship repair. Their wastes are different from those of MES and slag accounts for about 48% (2008 fiscal year). Slag cannot be recycled and the recycle ratio is about 53% (2008 fiscal year).

Wastes Generated and Recycle Rate (unit: ton,%)

Breakdown of Wastes generated in 2008 Fiscal Year

Factories giving Consideration to Environment (New and powerful steel plate cutting factory)

The Fukai steel plate cutting factory in Tamano Works was constructed to cope with the increased in-house work volume and to increase the steel plate cutting capacity (which is the start of the shipbuilding job) enhancing the efficiency of the process, by replacing old facilities and obsolescent buildings. Its operation started in April, 2008. In this factory, distance of material moving was shortened and the

transportation energy was reduced as far as possible giving consideration to the environment. This is a state-ofthe-art factory particularly giving consideration to noise, mine dust and other environmental conditions because private houses are in close proximity to the boundary of the site. Photos below show the inside of the Fukai steel plate cutting factory and steel material carry-in area.

Decreasing of Environmental Load with our Product (Crane)

An image drawing of Supertainer

Manufacturing

Lifting device for general erection

Reduction of iron ores and fossil fuel consumption is essential to reduce CO₂ emissions. In container terminals in the world, however, container cranes are becoming larger, heavier and speeding up to handle larger container vessels and therefore consume more energy than former ones. Under these circumstances, MES have developed Supertainer, the brand-new model of container crane. Supertainer is characterized by two trolleys; one is travers-

ing on the land side and the other is traversing the sea of the girder, and one traverser travelling between them. This arrangement allows the trolleys only to hoist and lower containers and the traverser only to transfer containers. This system enables the reduction of waiting time and improves the operation speed.

With this feature, cargo handling efficiency of Supertainer is about twice that of the conventional 40-ton lifting capacity container crane, and handling time is theoretically halved. Accordingly, energy consumption of container cranes and container vessels is reduced and CO₂ emission can also be reduced.

In developing Supertainer, we have optimized its structure and minimized the weight by applying the latest technical method. As a result the crane gross weight was reduced by 110 tons from the original weight. Possible optimum solutions used to be obtained based on our actual experiences but now more accurate optimum solution can be obtained by computer. This was applied to the development of Supertainer.

Now the optimization method is applied to conventional container cranes as well to optimize the structure, minimize the weight and reduce energy consumption. In the manufacturing process of container cranes and RTGs (Rubber Tired Gantry Cranes) main structures such as legs or girders are assembled the ground to secure the safety and working efficiency. Large upper and lower parts/structures manufactured on the ground are assembled and erected to cranes with lifting device as shown in the above photo. This erection system improves working efficiency and therefore contributes to saving the energy that is consumed for crane manufacture.

By the development of the lifting device to manufacture container cranes efficiently that are becoming larger and the development of new installation methods to cope with the limited space of the delivery site we now unable to construct blocks under various conditions and expand the application range of energy saving technical methods. We are also making efforts to reduce the power consumption and materials used (resource saving) in other manufacturing processes. As for materials, design is devised to use the materials that are cut out from the remainder which used to be scrapped for more effective utilization of materials and other secondary work such as edge preparation et. is reduced.

Transportation

Fifteen RTGs are on a vessel for transportation

Container cranes and RTGs are fully assembled in our factory and transported to a terminal of a client. Usually a large transport vessel is used and the number of shipments is determined by the number of cranes to be delivered. Once we received the order of as many as 30 RTGs and it required five shipments if we applied the usual transportation method (transport in fully assembled conditions). We have studied the methods to minimize the number of shipments and came up with an idea; to install one side of legs to the centre of girders. The number of shipment was reduced only to twice by applying this method. This eventually reduced the fuel required for sea transportation and contributed to CO₂ reduction.

We have set a target to offer products that have less environmental impacts. This is not limited to products itself. Our efforts have been made even in the various processes of crane manufacturing and delivery.

Environmental Part

One of the MES environmental measures, MES eco TT.

Reduction of CO₂ emissions and fuel consumption is a major issue also for container terminals. Specific targets have been set and obliged for CO₂ emission reduction in some US and Japanese container terminals.

RTGs that are widely used in container terminals are equip-ped with diesel generators as their energy source. If we enable to reduce the fuel consumption of the diesel generator, it will contribute to the reduction of CO₂.

We have been developed and offered various RTGs friendly to the environment, which are called MES eco TT. One model of MES eco TT is MES Hybrid equipped with a capacitor (energy storage device) with the Engine Variable Speed Control (EVSC), which is our original technology and variably control the engine rotating speed of the diesel generator reduces the fuel consumption by 50% in comparison with conventional RTGs.

Another model of MES eco TT is electrical RTGs whose power is supplied from shore and equipped with a newly developed device for the lane change drive source. This type of RTGs enables to achieve CO2 zero emission. We also employ an electric spreader and steering system and offer hydraulic-free cranes in order to reduce the environmental damages caused by waste oil treatment. We are planning to evolve in the future electric power supply systems by eliminating cable reel or bus bar and offer all electro-motion type RTG of cordless type, friendly to the environment and high in cargo handling efficiency.

Technologies and Products contributing to Environmental Preservation

MES contributes to the preservation of global environment through its technologies and products related with environment and is ready to do the same in the future. Parts of such contribution are briefly explained hereunder concerning energy saving, clean energy, recycling, waste treatment, etc.

• World's Largest Ore Carrier, Brasil Maru

Brasil Maru is a ship ahead of time which has realized the transportation mode friendly to the global environment by the shuttle navigation between Japan and Brazil with a large capacity of dead-weight tonnage of 320,000 tons, which has no past record in Japan.

CO2, NOx and SOx emission per unit transportation weight was reduced by the very large ship hull volume. Its hull form was developed using the latest computer simulation technique and excellent resistance propulsive performance was realized. In addition, employment of an engine which meets the exhaust gas regulation of the International Marine Organization (IMO) also contributes to reduction of environmental load.

Environmental conservation is taken into account also by early applying the double hull construction of the fuel oil tank as provided by international regulations for prevention of marine pollution well ahead of others.

This ship was selected as a "Ship of the Year 2007" by The Japan Society of Naval Architects and Ocean Engineers. We will continue to develop and build ships friendly to the global environment.

Cathode Material for Next Generation Lithium Ion Battery

We are currently developing a very promising cathode material for next generation Lithium Ion Battery. That is Lithium iron phosphate. We are almost ready to answer the strong anticipation from the related industries by establishing manufacturing facility in our Chiba yard. Lithium iron phosphate has an unique feature of safety and longer life cycle with guick charge/discharge capability which is critical for automotive application.

The additional advantages are ample supply of raw materials and competitive prices compared to other types of battery cathode materials.

The promising market of Lithium iron phosphate includes:

- 1. Automotive application—such as PHEV and EV.
- 2. Energy storage application to enhance solar, wind power generation and other renewable energy usage.

MES is willing to contribute to solve world environmental issues of reducing CO₂ emission by introducing this attractive Lithium iron phosphate to the market.

CSP (Concentrated Solar Power) Generation Svstem

We delivered an experimental beam down type CSP generation facility in Abu-Dhabi, United Arab Emirates (UAE) in October of 2009 for the first time in the world.

This facility is intended to be a demonstration plant for research and development of the beam down type CSP generation which MASDAR, a UAE governmental agency, and Cosmo Ŏil Co., Ltd. determined as the subject of joint research with Tokyo Institute of Technology. After completion, various performance experiments are being carried out to collect valuable data for design of an actual plant and evaluate

the basic performance. We determined to contribute to reduction of emissions of the greenhouse effect gas (GEG) by developing solar power technologies enabling effective utilization of solar energy, one of regenerative energies, with our various engineering skills cultivated over the years.

Ion phosphate lithium

Center reflector tower and surrounding heliostats in experimental facility in Abu-Dhabi

• Facility of Bio Ethanol Production from **High-Yielding Rice**

We are joining in a verification project of a bio-ethanol manufacturing plant using high-yield rice plant which is being led by JA Zen-Noh (Japan Agricultural Cooperative Association) and others. Construction of a plant employing the ethanol continuous fermentation process techniques of Chematur Engineering AB, Sweden, was completed in Corp Chemical Niigata Factory.

Process of this plant is automated allowing continuous ethanol production with low water consumption. As the fermentation residue can be highly concentrated, waste treatment cost is almost not necessary. Instead, feedstuff and fertilizer are produced from the fermentation residue utilizing the byproducts effectively.

Since the facility uses high-yielding rice exclusively grown for bio ethanol instead of usual rice for eating, rice fields, which are difficult to be converted for cultivation of other crops, can effectively be used for production of bio ethanol raw material, which eventually helps conserve rice fields, water and environment of the area in good condition for the future.

Special feature of this process is that the fermentation residue can be highly concentrated to make animal feed easily, which causes no extra expense for liquid waste treatment.

MES is committed to contribute to the society by expanding the applied technology for biomass including bio-ethanol production which will help decrease emission of green house gas and establish resource-recycling society.

Kiln type Pyrolysis Gasification and Ash Melting process "Mitsui Recycling 21"

The kiln type Pyrolysis Gasification and Ash Melting process of MES is a unique waste treatment facility of lower environmental load and high recycling features using municipal solid waste as a source of energy. Wastes are carbonized and pyrolyzed in the pyrolysis drum under deoxidized condition. After the valuable (marketable) metals are recovered, the remaining waste is pyrolyzed to pulverized carbon, which is melted in the high temperature combustion chamber to be utilized as construction material in a form of slag for asphalt pavement. Because the construction site in Hamamatsu is close to the spawning site of loggerhead turtles and established as an annex to an international swimming place, enough consideration is given to the surrounding environment. Our system with a proven record of safe and stable operation was employed through very close scrutiny and is being operated observing self-regulation values heavier than environment standard values required by the prefecture or city.

Distilled Spirit Lees Recycling Plant

This plant recycles the residues out of the distilled Shochu sprit production process into animal feed of high quality. The plant can recycle almost all the effective ingredients into animal feed, fertilizer raw material and fuel by separating, drying, condensing and distilling sprit lees. The spirit lees, which were dumped into the sea before, are now recycled by this plant for various purposes, which contributes a lot to the prevention of sea pollution. MES has established one-line recycle system from the collection of sprit lees to the effective use of recycled products, and is now expanding the sales of the system in earnest.

Environmental Part

Environmental Accounting

Environmental Part

Learn from Customers

The voice of customers is a gold mine. Let's look at, listen to, learn, and evolve from it.

The total amount of investment and expenses made for the preservation of environment is ¥2,840 million as more specifically mentioned in the table below. Costs for preservation of environment are classified according to the "Classification by the Business Activity" as described in the "Environmental Accounting Guideline 2005".

The total investment amount is about ¥450 million, of which ¥400 million is allocated for global environmental preservation including energy saving and another ¥50 million is for research and development. The total expense amount is about ¥2,380 million, of which ¥ 1,690 million is for research/development of environment and energy saving products, ¥270 million is for resource recycling of wastes etc., ¥200 million is for pollution control and ¥130 million for management activities.

Classification of Environment Preservation Cost	Investment Amount	Expense	Main Activities and Performance Results
1. Cost within Business Activities			
a Pollution Control Cost	0.0	195.3	Exhaust Gas and Wastewater Treatment, Dust Control and other Pollution Control
Global Environmental Preservation Cost	50.9	92.4 E	Energy Saving
Resource Recycling Cost	-	265.5 V	Vaste Treatment
2. Cost for Up and Down Stream Activities	-	0.6	100% recycled paper used as copy paper
3. Management Activities Cost	-	132.9	Environmental Management System, Environmental Report and Environmental Education
4. Research and Development Cost	402.9	1,687.1	Development of Various Environment Friendly Products
5. Social Activities Cost	-	3.2	Support for Environmental Preservation
6. Environmental Damage Countermeasure Cost	-	5.8	Envilonmental Damage Countermeasure
Total	453.8	2,382.8	

Environment Preservation Cost (unit: million Yen)

Our Steps in Environmental Activities

Glossary
1. Natural Gas Injection Diesel Engine: The first large size marine diesel engine in the world to burn natural gas instead of conventional heavy oil has been developed by MES.
2. Pyrolysis Gasification and Melting Process of Municipal Waste "R21": The technology developed as the next-generation municipal solid waste incinerator, which reduces the dioxin concentration dramatically and metals can be recovered without oxidation. Furthermore, melted slag after processing can be recycled as the bottoming. This is the first pyrolysis gasification and melting process of municipal waste in Japan to which The Technical Evaluation Certificate was awarded and is nominated as "Mitsui Recycling 21 (R21)".

3. NGH: This is a short for Natural Gas Hydrate, which is the mixture of natural gas and water in a form of sherbet. This is drawing attention as a new clean energy source 4. PCB: This is a short for Poly Chlorinated Biphenyles, of which production and use were prohibited in 1972 because of health disturbances by intake into human body.

Commitment to Enhance Customers' Satisfaction

The corporate philosophy of MES is "To continue working as a company trusted by society and individuals through the products and services we offer." The most important theme of management attitude is "to offer further satisfaction for our customers." Employee's attitude of "Think over yourself at the customers' point of view (consumer orientation)." is considered essential in the employee's code of behavior. We are making efforts to "develop and offer differentiated products and services" from a new viewpoint based on the "customers' voice."

Overview of CS Activities

1. Summary of Activities until 2007 Fiscal Year

In the starting period of our activities for four years from 2004 through 2007 fiscal year, "speeding-up of handling of customer complaints", "customer satisfaction (CS) research" and "periodical customer visits" were three fundamental pillars of activities.

Speeding-up of Handling of Customer's Complaint

To be a company producing things under the trust from customers continuously, we will carry out periodical followups and improvements.

Customers' Satisfaction (CS) Research

Researches were conducted for three years in succession since 2004 for customers (about 700) to which our products were delivered to grasp the "strength, weakness and subjects of future improvement" of our products and services.

Periodical Visits to Customers

Visit to customers enables us to hear customers' real opinions which cannot be obtained by the CS research. According to troubles or demands of customers, we make suggestions for settlement.

2. Enhancement of Customer Orientation The voice of customers is a gold mine. Let's look at, listen to, learn, and evolve from it.

Above slogan was raised to promote improvement and innovation based on the voice of customers.

CS Activity Home Page

Customers' complaints, expectations and compliments are publicized and examples of activities are presented on this home page.

Distribution of CS News by E-mail Enforcement of CS Training Sessions

3. Activities after 2008 Fiscal Year and Policy in 2009 Fiscal Year To respond to customer's troubles or demands flexibly, former uniform activities across the company were converted to company-wide promotion of "activities for each product and each service.' By making these activities daily busi-

ness duties and manifesting, both the customers and MES can progress (cope with changes) and evolve (intensify the strength).

(demands, complaints, troubles)

Social Part

Corporate Governance

Governance

We have a company philosophy "To continue working as a company trusted by society and individuals through products and services we offer". Under this company philosophy, we commit ourselves in our company's management policy to supply products and services harmonizing complex technology brought up in wide range of business and experience fostered through various global business activities to meet the expectations of people and society and enhance public confidence as a "company producing things". Based upon such management policy, we, adopting the management attitudes of "Build further satisfaction for our customers". "Provide safe and effective workplace environment for employees", "Contribute to the development of society" and "Pursue a Profit for the longevity of the company", are exerting our best efforts in order that all stakeholders can appreciate our company as having the value to sustain everlastingly.

Thus, we seek higher enhancement of our corporate value while recognizing the corporate sociality. As the most important issues in our management we rank the establishment and the maintenance of the fair management systems, where decision can be made as quickly as possible to meet the rapid change of management circumstances and where emphasis is put on the interest of share holders.

Internal Control System

We recognize that the purpose of the internal control system is "to ensure the effectiveness and efficiency of the business (achievement of business purpose)", "to ensure the credibility of financial report" and "compliance with rules and regulations" and are strengthening and improving our internal control.

The board of directors resolved the "basic policy for construction of internal control system" in May 2006 and has reviewed it every year. The Internal Control Promotion Committee was established to promote the upgrading, intensification and PDCA (Plan Do Check Action) process circulation, etc.

To accomplish the objectives of the internal control, we have established the business execution system, risk control system, business ethic compliance system and internal control promotion system for the financial report, which systems are checked by the internal audit department for their effectiveness.

1. Business Execution System

As management bodies for execution of business operation according to the basic principles decided by board meeting, we have set out "Management Strategy Conference" for overall strategies and "Management Conference" for individual business activities. Based upon the study in such conferences, according to the role-sharing, quick and agile decision making are pursued. With the Business Execution System, we are trying

to establish our organization in which authority and responsibility are clearly articulated and mutual supervision are functioning effectively.

2. Risk Control System

An integrated risk control system systematically grasps and evaluates various risks related with overall management activities and manages the operations of business within the range of reasonable risk taking limitations under the Enterprise Risk Management Committee.

As for risks in the business operation. "Risk Management Study Committee in Headquarters" is established in each headquarters for voluntary risk assessment by the headquarters, and risk control status of the headguarters is checked by audit-related departments. In case of the occurrence of an emergency, a "Special Risk Management Committee" chaired by a representative director is held for a quick countermeasure action.

3. Business Ethics Compliance System

"Standard of Conduct" is distributed to all officers and employees of MES and group companies and steps are taken to keep everyone well informed of it. The Compliance Committee is an organization to promote and supervise the compliance measures and policies. "Help line" is provided for early finding of problems and the system is prepared so that the Compliance Committee secretary general or lawyer directly accepts consultation from employees or outside.

As for public work business activities, for further ensuring of law abiding behavior, voluntary checking is carried out by each business department, and such voluntary checking is monitored and supervised by "Anti-monopoly Law Observance Committee". In addition, the Compliance Committee supervises the activities of the Anti-monopoly Law Observance Committee.

4. Internal Control Promotion System for **Financial Report**

To secure the credibility of financial reports, fundamental policies for the evaluation of internal control related with the financial reports are decided in the meeting of the board of directors every year. Maintenance and operation of internal control are evaluated through the Internal Control Promotion Committee and corrected where necessary.

Flow Chart of Corporate Governance and Internal Control

Main Activities of Internal Control System in 2008

Under the risk control system, the Enterprise Risk Management Committee deliberates critical management risks and the Audit Department monitors the proper functioning of the Risk Management Study Committee in the Headquarter. Under the internal control promotion system for financial reports, the Internal Control Promotion Committee determined countermeasures for the internal control report system according to the Financial Instrument Exchange Act as the top priority task in the 2008 fiscal year, concentrating on the evaluation of maintenance and operation of the internal control on the financial reports and correction of defectiveness noticed in the course of evaluation.

As to Compliance, E-learning system was introduced from this financial year to better understand applicable laws and regulations for our business. All managerial level employees took the course of Compliance E-learning and, in light of recently increasing insider trading, "Insider E-learning" provided by the Tokyo Stock Exchange as well. Directors and line-managers were asked to submit the written pledge for observance of law as one of the corporate activities taken in October, the month designated by Japan Federation of Economic Organization as the promotion month of corporate ethics. In addition, face-to-face

Social Part

lectures were consecutively provided by the legal department for those employees such as managerial level employees and sales staffs for them to make it clear what kind of activities will be deemed to be illegal in the course of daily business activities, referring to our corporate "Standard of Conduct". We acknowledge the importance of continuous learning and knowledge brushups for structuring compliance in place and are determined to enhance it unyieldingly.

Creation of Lively Workplace

Employee is a valuable asset to the company. We aim to create a lively workplace through personal development, provision of comfortable work environment, increase of job opportunity and other approaches.

• Human Resource Development

We carry out human resource development in comprehensive manners at various hierarchical stages of the company with recognition that "Enhancement of individual employability (the ability to be employed) is an important task of the corporation."

1. Quick Fostering of Young Staff

We have an education plan for white-color workers and engineers (graduates of universities and colleges) "to foster them full-fledged in 5 years after entrance" which includes OJT in the workshop, Freshman's Training (Introductory Seminar, Inter-mediate Follow-Up Seminar and Final Follow-Up Seminar), Third Year Seminar and Interviews during Fostering (in second and fourth years).

2. Education of Mid-level Staff

Education of mid-level staff is also important for the corporation besides young employees. We carry out various trainings to foremen and assistant chiefs.

3. Seminars to Managers

It is department managers (general managers, managers, section chiefs) that determine success or failure of the human resource development. Various trainings for managers are made to enhance the management capability including the human development capability of the managers.

4. Transfer of Skill and Technique

It is essential for business operation of the corporation to transfer professional skill and technique owned by veterans of 50's to mid-level staffs and young staffs. We have established "Technological Transfer Center" in our works where the skill masters transfer their high professional skill and technique to their juniors.

Human Right Enlightenment

Every worker in the workplace is an indispensable existence in the corporate activity. Ability of worker will be exercised to the full extent and his working life will be worthwhile when human right is respected in the workplace. Such will eventually lead to the improvement of productivity. We have formulated "Basic Principles of Human Right Enlightenment" and are making various enlightenment activities including human right enlightenment seminar etc. to achieve impartial working environment with no discrimination.

MES Basic Principles of Human Right Enlightenment

Under the concept of respect for human rights, Mitsui Engineering & Shipbuilding Co., Ltd., as a member of enterprises having social responsibility, places the solution of human right infringement the most important issue and exerts its best efforts to create a corporate atmosphere where there is no discrimination in terms of sex, race and origin through its daily business activities.

• Reemployment (Senior Expert System)

Reemployment system was introduced in the 2002 fiscal year for employees retired reaching the age limit. This system was repeatedly improved by clarifying the employment standard, raising the wage level, introducing diversified service form, etc. and was renamed as "Senior Expert System".

This reemployment system allows the retired persons to stabilize their living while making them use their acquired knowledge and technical expertise. The system also allows the company to utilize high level work force of the retired persons continuously. This reemployment, therefore, is quite beneficial to both company and the retired persons. About 80% of the retired persons are now reemployed in many workplaces of the company.

• Balancing Work and Family Life

- 1. Social Advancement of Women and Aging of Population Corresponding to Social Advancement of Women and aging of population, following favorable treatment systems was established for maternity protection and balancing the work, parenting and nurcing.
- Allow expectant and nurcing mothers to take time to go to hospitals
- •Leave before and after childbirth, maternity leave
- Childcare leave
- Family care leave (when the children are sick or iujured) • Shortening of working hours and exemption from over-
- time work to care for children
- Family care leave
- 2. Variety of Working Styles, Vacations and Paid Leave System

To use limited time effectively and realize well-disciplined working hours, following systems and favorable treatments have been provided:

- Flexible working hour system (only for office-related and technical workers)
- Refreshing leave
- Flex summer holiday (only for head office)
- Memorial leave
- Half-day leave
- Annual paid-leave saving (annual paid-leave to expire
- is saved and used for leave for injury/disease)

• The BPS Activity

BPS stands for Best Practice Sharing. These activities are intended to share the best methods to learn from other companies, other operation departments, other associations, customers or rivals.

This is a company-wide commitment since 1999 aiming at training of employees and building up the foundation of improvements in each workplace. As shown in the figure below, the BPS activities are intended to enhance the improving ability as an advanced business person by overcoming operational problems, using the way of improving the awareness of issues, ensuring the "actual site, actual article and reality" approch, intensifying the improving

mind and learning the skill like "why method" required for the improvement.

The employability of the employees will be enhanced if the improving ability is intencified, and the employees having the employability will be the invaluable human resource required for our company and society.

In the BPS activities in each workshop, intensive discussion is carried out on the subjects for improvement. Real communication is achieved on equal level of all employees regardless of position. As the outcome of the activities, working hours can be shortened and the working environment can also be improved.

Safety and Health in the Workplace

Safety and Sanitation are the Base for **Corporate Management**

With the recognition that "Ensuring safety and sanitation based on the respect for human dignity is the base for corporate management.", we publicized the "Principles for Management of Safety and Sanitation" and promoting safety and sanitation management with the following 2 basic ideas:

- 1. "No Accident" target is achieved by observance of internal rules and regulations and by efforts for better safety and sanitation by all the employees of the company.
- 2. We must realize the comfortable and worthwhile working environment.

• How We Tackle the Prevention of Labor Accident

1. Team-Safety Movement

"Team safety movement" for health and safety activities in the promotion unit of "workplace teams" has been continued since 2003 based on the spirit of "joint promotion and joint liability." Activities for this movement are conducted in teams and have been stepped up to a movement to enhance the sensibility to danger of each member of teams and ability to foresee the danger (KY ability) giving consideration to increase of one-man work and young inexperienced people. These activities are integrated with the health and safety activities of the organization.

2. Decrease of Labor Accident by Risk Assessment Based upon Occupational Safety & Health Management System, we assess the high risk work by risk assessment method, by which we exert our best to minimize the labor accident.

Accident Frequency Rate

Accident Frequency Rate

Notes:

- 1. Accident frequency rate = (Number of deaths and injuries requiring an absence of 1 day or more in occupational accidents)/(Aggregate number of work-hours) \times 1,000,000
- 2. Accident frequency rate of manufacturing industry is extracted from Japan Industrial Safety and Health Association.

3. Education to Enhance Sensitivity to Danger To cope with the retirement of skilled experts and increase of younger staff and subcontracting company workers, a safety training center was established in April 2007 in Tamano Works where trainees can experience 21 types of dangers, as a part of enhancement of safety education. Similar facilities were established in Oita and Chiba Works in 2008 to carry out and promote the danger experience education of employees and improve their sensitivity to danger.

• Support to Health Promotion

- 1. For promotion of health and to prevent disease of the employees, we carry out regular check-up of employees at the health management center in each works and make medical advices based upon such check-up. We also support health promotion of employees in various ways including publishing of "Health News" by industrial doctors etc.
- 2. "KENKO Attack" campaign has been carried out as a company-wide movement aiming at taking preventive measures against life-style related diseases of employees. Specific health guidance is given to owners of meta-bolic syndrome, thus health-support of employees is carried out.

3. Mental health lecture classes are opened and mental health news are issued to promote mental health of employees. Twenty-four-hour telephone consultation service is opened for counseling by a vocational counselor and mental health measures such as return-towork support program are promoted. Self stress check carried out by each employee encourages awareness of mental health care and health risk by stress in each workshop is checked as an index for workshop environment improvement.

• Countermeasures against Pandemic Influenza

In order to cope with Pandemic Influenza, "MES Guidelines for the Prevention and Control of Pandemic Influenza" was formulated based on the "Guidelines for the Prevention and Control of Pandemic Influenza" issued by the government. In-house countermeasure simulation and training are carried out and briefing sessions on countermeasures are held for each works to enlighten and educate employees.

Activities for Contribution to Community and Education

• Tour to Observe New Shipbuilding in Chiba Works

On January 25, 2009 (Sunday), a tour to observe new shipbuilding was conducted in the shipbuilding factory for primary school to high school students and their attendants.

This event was held jointly with the ship owner for the purpose that ordinary persons may know the shipbuilding and marine transportation industries.

The ship was a bulk carrier of 177,000 DWT type (Cape size type) delivered on the 30th of the same month. Its overall length is about 300 meters and the width is about 45 meters.

About 150 visitors were divided into four groups and observed the deck and steering house of the ship. By watching closely, they actually realized the size of the ship and the height of about 50m from the ship's bottom to the steering room which cannot be usually possible, asking questions with much interest. Photo shows the scene of the visit.

• Exhibition in Environment and Bio-related Technology Show, "New Eco Messe in Okayama" On September 30, 2008 (Tuesday), "New Eco Messe in Okayama" was held in Okayama City. People engaged in the 3R (Reduce, Reuse and Recycle) movement, bio-mass or other new techniques met together including overseas companies for presentation and exhibition of posters and products. MES established a plant to verify the "bio-ethanol manufacturing with wood-base materials". "Shochu distillery by-products recycle facilities" was also established to reduce environmental load by condensing and drying the Shochu distillery by-products discharged in the course of production of Shochu and reusing it as the raw material of feedstuff. Bio-mass power generation facilities with the Japanese largest class power generation capacity using wood chips obtained out of building scrap wood or waste plastic solid fuel (RPF) are contributing to the reduction of CO2 emissions of 350,000 tons a year in Chiba Works (Ichihara City, Chiba). To make these MES commitment known well, Okayama Branch Office and Tamano Works exhibited jointly. Photo shows the booth and the attendants of MES explaining to visitors.

• 32nd Yawata Seaside Festival

On May 25, 2008 (Sunday), "32nd Yawata Seaside Festival" was held in the Yawata play field park (5 minutes on foot from the west entrance of Yawata station) in Ichihara City. Executive committee for this festival was organized by the local town council, companies in the Yawata seaside area and others and the festival is held on the fourth Sunday in Mav everv vear.

This festival has become a tradition of Ichihara City. We participated in the festival as the executive office of the committee and opened a branch shop and sold Frankfurt sausage.

On that day, weather was bad in the early morning and we were worried that the festival might not be able to be opened. However, the weather cleared up around at noon and was rather hot. Many people attended and the festival was highly heated up.

Our brass band, SWING VESSELS, played at the last of the stage program and closed the performance of the festival. Photo shows our refreshment booth in the Yawata seaside festival.

 Workshop for In-House Auditor In-house auditors are indispensable for the maintenance and improvement of environmental management systems. Each works fosters in-house auditors and periodically provides training to them to fulfilling vacant positions due to retirement, personnel transfer, etc. In 2008 seminar, new in-house auditors were registered as was the case in the past. Presently, the numbers of in-house auditors after balancing with personal change such as retire and/or transfer are 154 persons. The photo shows the scene of workshop for in-house auditors in Tamano Works. The table (right) shows the transition of numbers of in-house auditors.

On December 7, 2008, MES Tohoku Branch Office carried out a cleanup event in the Matsushima sightseeing pier and parks around it jointly with Mitsui Zosen Steel Construction Co., Ltd. and DPS Bridge Works Co., Ltd. of the Mitsui Shipbuilding group. This event was conducted out of the volunteer mind to be beneficial to the community and 17 members participated including their families. When they were clearing away after the festival, announcement to tell the start of boarding acceptance for the first ship was heard and the hustle and bustle of a holiday was started. Tourists who visited beautiful Matsushima, which is one of the Japanese three most famous views, and local people were well pleased. Photo is a cleaning scene.

• Together with Local Communities

In Ichihara City where MES Chiba Works is located, our subsidiary Sanzo Kosan Co., Ltd. has been carrying on business activities about half a century together with MES. This company was established as an outsourcing company of the parent company. Its business span ranges widely including a dispensing pharmacy opened in the city. The sports business department has opened soccer, tennis and handball schools using the welfare facilities of MES. The Mitsui Chiba soccer club has grown to a strong team comparable to junior teams of a professional team in the city. Now there are 280 members from kindergarten children to junior high school students. This business is contributing to growth of sound youth in the community through soccer with the purpose that children strengthen their mind and body and improve the skill while enjoying soccer through the training matching the individuality and bodily power of each child.

Community Service Activities of Our Tohoku Branch Office

Transition of Numbers of In-House Auditors

Environmental & Safety Control Department This Environmental and Social Report appears on our website: http://www.mes.co.jp/

For further information please contact: MITSUI ENGINEERING & SHIPBUILDING CO., LTD. 3-16, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-0027, Japan *Environmental & Safety Control Department: 81-3-5202-3198* or Public Relations Department: 81-3-5202-3147