



## ENVIRONMENTAL REPORT

2020

**Logisnext**

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## ENVIRONMENTAL REPORT

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**mitsubishi logisnext co., ltd.**

Head Office and Kyoto Plant, Shiga Plant, Azuchi Plant

## Message from the President

### On the Publication of the 2020 Environmental Report



久保 隆

Takashi Kubo  
President and CEO

Recently, the COVID-19 pandemic has been having a serious impact on corporate performance while contributing to growing uncertainty about the future of the economy. At the same time, however, the requirements of the current era are compelling businesses to pursue their operations from the perspective of the UN's sustainable development goals, or SDGs. Initiatives for reducing environmental impact have become indispensable for those who are committed to meeting their corporate social responsibility and contributing to the emergence of a sustainable society.

Our management policy has always incorporated an environmental theme. It emphasizes that we will continue to protect the global environment and contribute to the ongoing development of local communities.

In fiscal 2019, in keeping with our own medium-term management plan, we have entered into an Expansion and Development Phase and have undertaken improvements to various initiatives in the interests of overall optimization. These include quality improvements, reduction of labor hours, and an increased customer focus.

Moreover, as a result of our efforts to eliminate waste and inefficiencies within the company, we were able to improve our energy efficiency and thus reduce our environmental impact.

Going forward, we intend to implement additional concrete initiatives through business operations that emphasize safety, quality, and the environment in order to meet the goals set forth in the SDGs.

This *Environmental Report 2020*, published for the benefit of our customers and all who support our Group, presents easy-to-understand information about our environmental initiatives in fiscal 2019 and is mainly focused on the operations and achievements of our Head Office and Kyoto Plant, Shiga Plant, and Azuchi Plant.

### Outline of the Head Office and Kyoto Plant, Shiga Plant, and Azuchi Plant

#### Head Office and Kyoto Plant

Location: 1-1, 2-chome, Higashikotari,  
Nagaokakyo-shi, Kyoto, Japan  
Start of operation: 1940  
Employees: Approx. 920  
(including partner companies)  
Site area: 44,509 m<sup>2</sup>



#### Shiga Plant

Location: 578 Chokoji-cho,  
Omihachiman-shi, Shiga, Japan  
Start of operation: 1970  
Employees: Approx. 1000  
(including partner companies)  
Site area: 228,000 m<sup>2</sup>



#### Azuchi Plant

Location: 8-1 Nishioiso, Azuchi-cho,  
Omihachiman-shi, Shiga, Japan  
Start of operation: 1991  
Employees: Approx. 320  
(including partner companies)  
Site area: 68,794 m<sup>2</sup>



## Environmental Policies and Organizational Structure

### Environmental Policies

#### Environmental Policy

We are committed to protecting the global environment from an international perspective and contributing to the ongoing development of local communities.

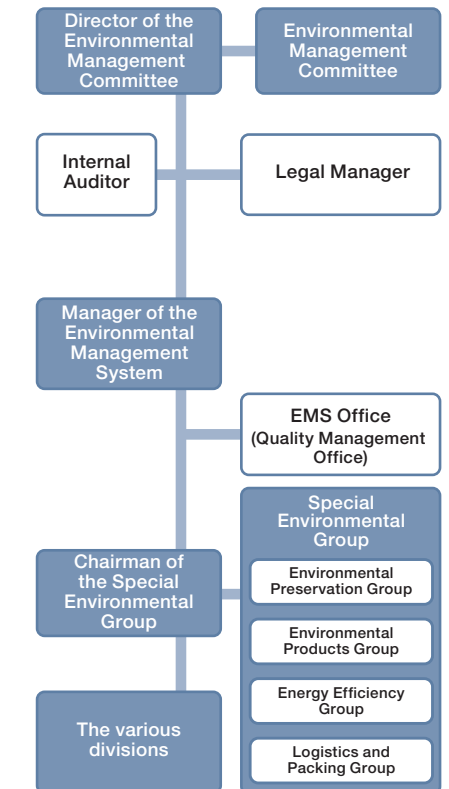
#### Environmental Action Guidelines

Mitsubishi Logisnext Co., Ltd. and its affiliates are committed to proactively implementing the following environmental policies through our business operations, which encompass the development, manufacture, sales, and servicing of forklifts and other industrial vehicles, distribution systems, and logistics products. In keeping with our environmental philosophy, we aim to reduce our environmental impact and improve society on a sustainable basis through our business operations.

1. We recognize that preserving the environment and maintaining harmony with the global ecosystem are among the most important management issues, and we shall continue to systematically promote environmental initiatives through our business operations.
2. Under our environmental management system, we shall strive to control environmental pollution and promote environmental preservation activities by accurately monitoring the environment impact of our business operations.
3. We shall strictly comply with all environmental laws, regulations, and ordinances as well as all agreements and other requirements to which we are party; adopt voluntary standards; and takes steps to preserve the environment.
4. In acknowledging the environmental impact of our business operations, we shall adopt the following important initiatives.
  - (1) We shall manufacture eco-friendly products.
  - (2) We shall reduce, recycle, and properly dispose of all industrial waste resulting from our business operations.
  - (3) We shall become more efficient and reduce our consumption of raw materials, fuel, and energy, and we shall promote environmental preservation in our manufacturing activities.
  - (4) We shall improve the transportation efficiency of our product and parts distribution, reduce the use of packing materials, and decrease our environmental load.
5. We shall implement in-house training sessions and awareness campaigns to inform all our employees and trading partners of our environmental policies and shall disclose them to the public.

In order to implement the above environmental policies, we shall establish environmental goals and targets within our technical and economic scope and periodically review our progress. We shall remain committed to continuously improving our environmental management system and environmental performance.

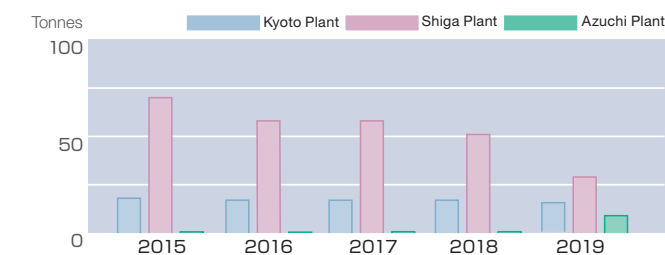
### Organizational Structure



## Environmental Initiatives

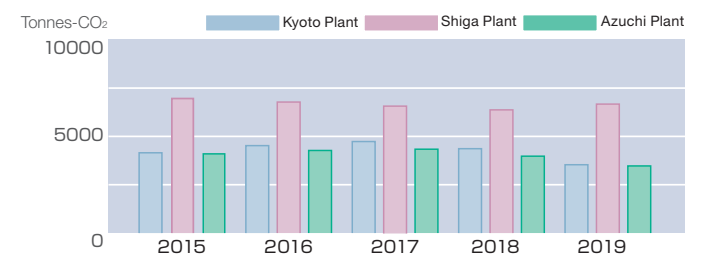
### Burnable Waste (domestic solid waste) Generated

We have reduced the amount of burnable waste generated by continuing our regular patrols and by seeking the cooperation of employees in our various workplaces. While our Kyoto Plant has hit a ceiling in this area, we were able to reduce significantly the amount of burnable waste generated at our Shiga Plant by reviewing our sorting standards. At our Azuchi Plant, on the other hand, the amount of burnable waste has increased.



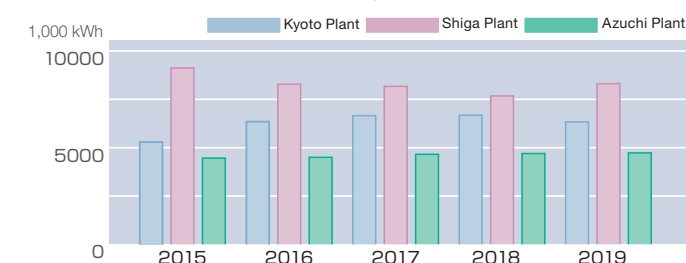
### CO<sub>2</sub> Emissions

Following the transfer of production of some models from our Kyoto and Azuchi Plants to the Shiga Plant, emissions decreased at the Kyoto and Azuchi Plants and increased at the Shiga Plant.



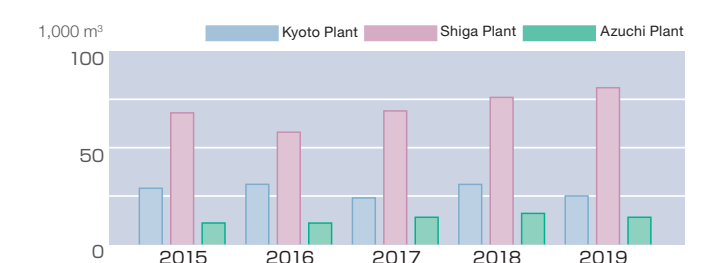
### Electricity Consumption

Electricity consumption decreased at the Kyoto Plant and increased at the Shiga and Azuchi Plants. This can be attributed to two causes: the transfer of production of some models from the Kyoto and Azuchi Plants to the Shiga Plant; and the introduction of air conditioners at the Shiga and Azuchi Plants in an effort to improve the working environment in the summer.



### Water Consumption

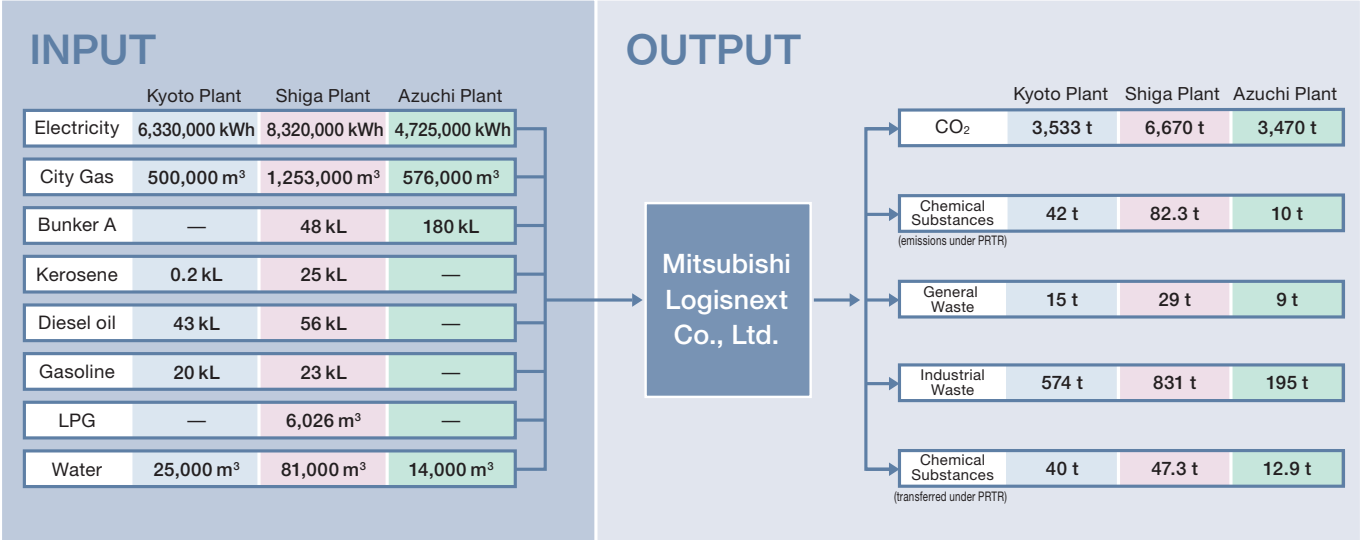
Following the transfer of production of some models from the Kyoto and Azuchi Plants to the Shiga Plant, water consumption decreased at the Kyoto and Azuchi Plants and increased at the Shiga Plant.





Environmental Initiatives

Summary of Environmental Impact (Fiscal 2019)



Compliance with Laws and Ordinances

Water Quality

At the Shiga and Azuchi Plants, we established wastewater treatment tank facilities that purify sewage and wastewater from factory processes before it is discharged from the plants. This purified water is discharged into tributary waterways of neighboring rivers. At the Kyoto Plant, drainage water is discharged into the drainage system after proper treatment.

Plant	Measured Item	Unit	Regulated Value	Observed Value
Kyoto	pH		5–9	7.6
	Biochemical oxygen demand (BOD)	mg/L	600	83.5
	Suspended solids (SS)	mg/L	600	31
	N-hexane extracts	mg/L	5	Less than 2.0
	Zinc	mg/L	2	Less than 0.2
Shiga	pH		6.5–8.0	6.9
	Biochemical oxygen demand (BOD)	mg/L	30	2.0
	Chemical oxygen demand (COD)	mg/L	30	4.4
	Suspended solids (SS)	mg/L	70	Less than 0.5
	Nitrogen	mg/L	12	2.2
	Phosphorus	mg/L	1.2	0.1
Azuchi	N-hexane extracts	mg/L	3.0	Less than 0.5
	pH		6–8.5	7.2
	Biochemical oxygen demand (BOD)	mg/L	40	21
	Chemical oxygen demand (COD)	mg/L	40	12.2
	Suspended solids (SS)	mg/L	90	0.8
	Nitrogen	mg/L	12	0.6
	Phosphorus	mg/L	1	Less than 0.1

Measurement dates: February 3, 2020 (Kyoto Plant); March 3, 2020 (Shiga Plant); February 11, 2020 (Azuchi Plant)

Odor

We undertake periodic odor measurements at the site boundary.

Plant	Measured Item	Unit	Regulated Value	Observed Value
Kyoto	Toluene	ppm	10	Less than 0.5
	Xylene	ppm	1	Less than 0.5
Shiga	Toluene	ppm	10	Less than 1
	Xylene	ppm	1	Less than 0.1
Azuchi	Toluene	ppm	10	Less than 1
	Xylene	ppm	1	Less than 0.1

Measurement dates: September 18, 2019 (Kyoto Plant); July 10, 2019 (Shiga Plant); November 7, 2019 (Azuchi Plant)

Noise

We undertake periodic noise measurements at the site boundary.

Plant	Measured Item	Unit	Regulated Value	Observed Value
Kyoto	Noise	8:00–18:00	dB	70
		18:00–22:00	dB	60
Shiga	Noise	8:00–18:00	dB	65
		18:00–22:00	dB	60
Azuchi	Noise	8:00–18:00	dB	70
		18:00–22:00	dB	70

Measurement dates: March 9, 2020 (Kyoto Plant); January 21, 2020 (Shiga Plant); November 7, 2019 (Azuchi Plant)

Atmosphere

We periodically undertake measurement of the concentrations of particulates in the atmosphere around warm air heating units. We also measure for hazardous substances as stipulated under local ordinances.

Plant	Measured Item	Unit	Regulated Value	Observed Value
Kyoto	Warm air heating unit (city gas)	Particulate	g/m³N	0.10
		NOx	ppm	150
Shiga	Cogeneration power generation equipment	Particulate	g/m³N	—
		SOx	m³N/h	—
		NOx	volppm	600
	Air conditioning equipment	Particulate	g/m³N	—
		SOx	m³N/h	—
		NOx	ppm	150
Azuchi	Warm air heating unit (fuel oil)	Particulate	g/m³N	0.20
		SOx	m³N/h	1.2
		NOx	ppm	180

Measurement dates: January 9, 2020 (Kyoto Plant); March 11, 2020 and July 12, 2019 (Shiga Plant); February 5 and 7, 2020 (Azuchi Plant)

Targets and Results

Group	Fiscal 2019 Target	Fiscal 2019 Target (Qualitative/KPI)	Fiscal 2019 Results	Evaluation	Future Objectives
All Companies	To expand certifications through ISO audits	To acquire certification in September without any notices of nonconformities	Despite some notices of nonconformities, the expanded certification was approved by the certification body in September as scheduled. The nonconformities were resolved through corrective actions undertaken by the end of October, and the effectiveness of these corrective actions was confirmed on November 6.	×	Completed
	To enhance the environmental initiatives of the various members of the ML Group	To comply with laws or regulations and avoid receiving improvement guidance from competent authorities	No projects were issued improvement guidance notices. However, notification of an omission was issued for a specific facility; this was reported to the competent authorities.	○	
Environmental Preservation Group	To reduce waste emissions intensity (excluding valuable resources and waste paper) by 2% relative to fiscal 2017 levels at the Kyoto, Shiga, and Azuchi Plants	To reduce waste emissions intensity (excluding valuable resources and waste paper) by 2% relative to fiscal 2017 levels	Deteriorated by 9% relative to fiscal 2017 levels.	×	We will continue to promote patrols to raise awareness regarding waste sorting and continue to transform waste into valuable resources.
	To achieve a recycling rate exceeding 97.5% (Kyoto, Shiga, and Azuchi Plants) * The discharge weight is the amount that cannot be recycled.	To achieve a recycling rate exceeding 97.5%	Kyoto Plant 90.9%, Shiga Plant 97.4%, Azuchi Plant 97.4%	×	We will consider ways of improving the recycling rate for wood chips and other materials from the Kyoto Plant.
	To reduce VOC emissions intensity by 2% relative to fiscal 2017 levels at the Kyoto, Shiga and Azuchi Plants	To achieve a 2% improvement rate relative to fiscal 2017 levels	Improved by 11.9% relative to fiscal 2017 levels at all three plants. Revision of the calculation method for the Kyoto and Azuchi Plants had a significant impact, and follow-up is required.	○	
	To proactively participate in community activities	To participate in planned events	We participated in all scheduled events except those that were canceled.	○	
	To ensure the costs of environmental protection are calculated and clearly disseminated in-house	To increase our understanding of environmental accounting and disseminate it in-house	It was not possible to improve the level of understanding within the company.	△	We will continue to raise awareness within the company by holding briefing sessions to expand knowledge of environmental protection costs among those involved in data input for the accounting system.
Environmental Products Group	To improve CO₂ emissions by 5% relative to previous models of development vehicles (model updates/minor changes)	To calculate CO₂ emissions reduction of development vehicles and officially standardize the calculation method	A 5% reduction in emissions was achieved with some models, but not with others. Official standardization of the calculation method has not yet been implemented.	△	In fiscal 2020, we will officially standardize the CO₂ emissions reduction calculation standard.
	To improve CO₂ emissions of logistics solutions development vehicles by 5% relative to previous models	To calculate CO₂ emissions reduction of development vehicles and officially standardize the calculation method	Calculation of emissions reductions in development vehicles in fiscal 2019 has not yet been implemented. Official standardization of the calculation method has not yet been implemented.	×	In fiscal 2020, we will officially standardize the CO₂ emissions reduction calculation standard (with reference to systems, not vehicle bodies).
	To reduce the content of environmentally hazardous substances in products	To identify target parts, determine amounts used, and substitute other parts	Although the target parts have been identified through inspection, the amounts used have not been determined. As for part substitutions, some trivalent plating was undertaken at the Azuchi Plant.	△	A company-wide plan for determining usage and changing parts will be established. The Azuchi Plant will promote trivalent plating of sheet metal and machined parts.
	To enhance REACH compliance and improve support for partner companies	To visualize the implementation rate of the SVHC survey and provide implementation guidance (0 non-responding suppliers) To provide guidance regarding submission of non-use/non-inclusion declarations applicable to banned substances and reflect them in supplier evaluations To provide guidance on acquisition of EMS registration and reflect this in supplier evaluations	SVHC surveys have not yet been submitted by 20 suppliers. 10 suppliers have not yet submitted non-use/non-inclusion declarations. So far, 65 of our top 70 suppliers have acquired EMS registration.	△	We will continue to persuade suppliers who have not yet submitted surveys. Regarding EMS registration, we will continue to request unregistered companies to acquire it.
Energy Efficiency Group	To reduce energy intensity by 2% relative to fiscal 2017 levels	To reduce energy intensity by 2% relative to fiscal 2017 levels To undertake environmental investments To convert the reduction in labor hours into an equivalent reduction in CO₂ emissions	In terms of intensity, the result was 15.4% lower than the Kyoto Plant target, 7.6% lower than the Azuchi Plant target, 0.8% lower than the Shiga Plant target, and 6.2% lower than the target values for all three plants. Of the planned investments, only the thermal barrier coating work on the roof of Building F at the Shiga Plant was postponed until May 2020.	○	We will implement facility improvements (investments) as needed.
	To reduce water intensity by 2% relative to fiscal 2017 levels	To reduce water intensity by 2% relative to fiscal 2017 levels by repairing water leaks	Increased by 4.5% above the Kyoto Plant target value. Increased by 3.4% above the Azuchi Plant target value. Groundwater used at the Shiga Plant.	×	We will continue to consider countermeasures, as repair of leaks is not the deciding factor in reducing water consumption.
Logistics and Packing Group	To reduce pallet waste	To reduce pallet waste at the Shiga Plant by 1% relative to fiscal 2018 levels (8,752 kg max.)	6,930 kg	○	In the future, we plan to monitor the amount of waste per unit of sales.
	To reduce the amounts of packing materials purchased	To reduce the amounts of packing materials purchased to no more than 19.74 kg/million yen	18.36 kg/million yen	○	
	To promote the introduction of returnable containers	To improve the track record of our returnable container return rate (Target return rate: 3.7%)	3.04%	△	We will promote the use of returnable containers among specific suppliers.
	To determine product shipments (by tonne-kilometer) and reduce energy intensity per unit of transportation	To maintain the current tonne-kilometer level per unit shipped	Improved in comparison with the preceding year	○	

# Initiatives of the Special Environmental Group

## Environmental Products Group

### New 1–2 Tonne Counterbalanced Electric Forklift

Our new ECO Mode extends operating time by about 7%.

#### Features

#### 1. ECO Mode (Fig. 1)

Our new and innovative ECO Mode limits the maximum traveling speed and lift speed to minimize power consumption. This contributes to longer operating times while offering environmental advantages. Our standard 1.5-tonne model achieves 10 hours and 40 minutes in P + ECO Mode, compared with only 10 hours of operation in P Mode (with 415 Ah battery, JIVAS F30 pattern). Similarly, it achieves 11 hours and 30 minutes in N + ECO Mode, compared with only 10 hours and 45 minutes in N Mode alone, representing a roughly 7% increase in operating time.

#### 2. Custom Handling (Fig. 2)

As a standard feature, this model offers customizable handling to suit a variety of driver preferences and skill levels. The acceleration, response, lever characteristics, and other parameters can be set as desired to operator preference.

Since the nature of the cargo in a distribution warehouse can change over time, forklift trucks must accommodate a wide variety of tasks, from those requiring an emphasis on speed to those that require more careful handling. In addition, our design goal was to support safer and more reliable cargo handling by ensuring compliance with the particular safety management policies of each logistics site. We first adopted this approach in the Platter reach-type forklift we launched in 2015, which offered a greater variety of settings as well as finer adjustments.

Regarding operation mode settings, while our conventional model offered P(power), N(normal) and E(economy) modes, this model offers P and N Modes as well as our new C(custom) Mode. Seven C Mode settings are available for selecting driving parameters: acceleration, response, accelerator characteristics, braking force, regenerative braking when the accelerator is off, plugging capability, and speed limiter. Four settings are available for lift operation: acceleration, response, lever characteristics, and speed. In addition, four parameters are offered for tilting operation: acceleration, response, lever characteristics, and speed.

It is now possible to register individualized settings for up to 10 operators, from a soft setting for beginners to a responsive setting for experienced operators. These innovations also contribute to improved work efficiency, safer operation, and less stressful driving that is better suited to operator skill level. The soft setting also contributes to greater energy efficiency.

## ALESIS



#### Combining economical operation with earth-friendly features ECO Mode

The ECO Mode feature provides eco-friendly operation and low operating costs, both of which contribute to longer operating times. The reduced power consumption settings make this unit economical to operate and friendly to the environment. Operators can simply choose the setting — P, N, or C Mode — to suit their application.



#### In N + ECO Mode

Operating time  
**11h 30min**

Notes:  
• Values measured according to the F30/2000 Standard (operating rate: 55%, discharge rate 75%) according to JIVAS (Japan Industrial Vehicles Association Standards) with a 1.5-tonne standard vehicle (with 48 V 415 Ah battery capacity).  
• The operating times indicated are presented as a reference only and are subject to vary with particular work situations and work environments.

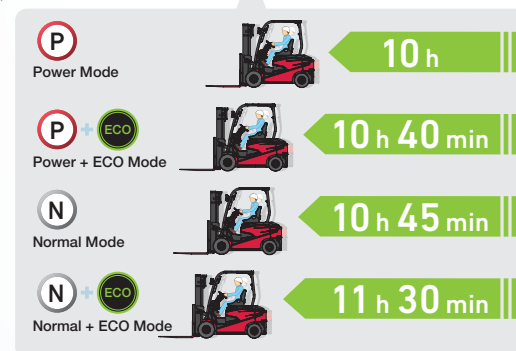


Fig. 1 ECO Mode

### 3.5–5.0 tonne Diesel Engine Forklift

We have reduced the environmental impact by equipping this model with a new turbodiesel engine that complies with the latest domestic diesel emission regulations.\*1

#### Features

#### 1. A new clean turbo-equipped engine for heavy-duty applications

Low soot emissions are achieved with a combustion chamber designed with an optimal shape as a result of combustion analysis. What's more, harmful substances contained in the exhaust gas are reduced through the use of EGR\*2 and DOC\*3.

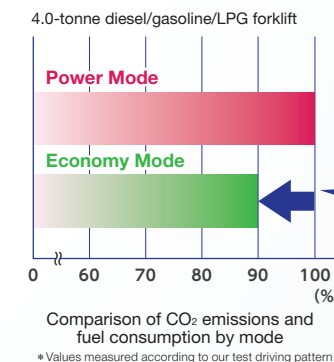
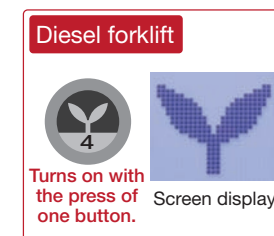
#### 2. Reduced running costs

Low fuel consumption has been achieved through a common rail system for highly efficient fuel combustion. As a result, fuel efficiency is improved compared with the conventional model.\*4  
The system includes an Economy Mode that achieves even lower fuel consumption while maintaining a practical level of power. The result is a reduction of about 10% in terms of CO<sub>2</sub> emissions and fuel consumption compared with Power Mode.\*4

#### 3. A more welcoming work environment

Now with improved sound quality and quieter operation compared with the conventional model.\*4

## FX



About 10% reduction

\*1 Ministry of the Environment Emission Standards for Diesel Special/Nonroad Vehicles, 2014  
\*2 Exhaust Gas Recirculation  
\*3 Diesel Oxidation Catalyst  
\*4 Results obtained with our test pattern

### Laser-guided Unmanned Forklift Trucks

#### Contributing to the environment

Unlike the magnetic induction method used with conventional unmanned forklift trucks, the laser-guided method requires no modifications to the floor. This approach reduces the amount of water consumed during construction and the amount of concrete waste that must be discarded.

In 2019, deliveries of laser-guided unmanned forklift trucks increased significantly, reducing the consumption of water generated by cutting work by about 2,800 liters (2,800 kg) and floor concrete waste by about 400 kg, for a total reduction of about 3,200 kg.



Laser-guided unmanned forklift trucks

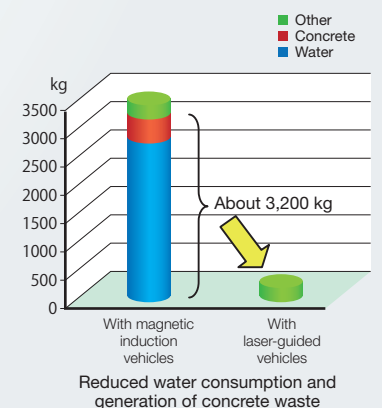
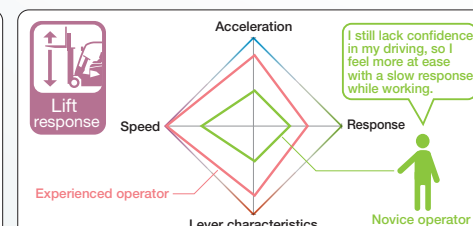
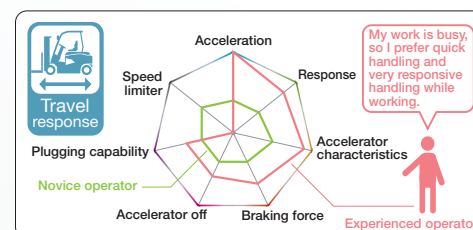
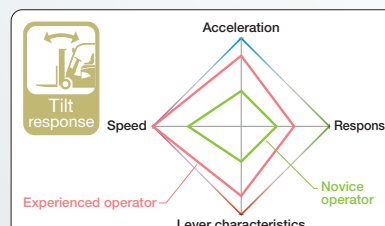


Fig. 2 Custom Handling

The operator can register 10 different settings after adjusting the parameters of travel, lift, and tilt operations.



Note: All parameters in the graphs are presented as reference values only.



# Initiatives of the Special Environmental Group

## Environmental Preservation Group

### “3 R” Initiatives

Each of our departments is working diligently to ensure that equipment that is surplus to company needs is put to effective use. We continue to adhere to the belief that even relatively small efforts can contribute to the emergence of a society committed to recycling, thus reducing the environmental load from waste incineration and landfill disposal by ensuring our planet's limited resources are used effectively.



### The “Zero Waste” Campaign

Out of respect for local residents, we conduct a cleanup campaign around the Kyoto Plant twice a year and around the Azuchi Plant once a year. In fiscal 2019, about 250 people participated at the Kyoto Plant on May 27, while about 130 took part on October 28; at the Azuchi Plant, about 70 took part on May 20. We remain committed to our efforts to maintain a close relationship with local communities.



### Environmental Patrols

For several years now, we have been addressing the issue of waste reduction. Although our various workplaces have achieved progress, room for improvement remains with regard to waste-sorting. As a result, we conduct regular environmental patrols to discuss solutions together with employees at our various workplaces, and examples of successful practices are shared across the company.



## Logistics and Packing Group

### Promoting the Use of Returnable Containers

We consult with suppliers for the purpose of reducing waste when production parts are delivered. Moreover, to reduce the cost of containers, we constantly consider what other materials can be used in returnable boxes and introduce them from time to time.



### Promoting the Reuse of Packing Materials

The buffer material used for delivery of production parts is sorted and stored for reuse in shipments of spare parts.



## Energy Efficiency Group

### Conversion to LED Illumination at Our Plants

We have updated the lighting at our Kyoto Plant with LEDs. As part of this project, we replaced mercury lamps and fluorescent lamps with LED fixtures with high luminous efficiency. A total of 387 lamps were replaced, reducing our CO<sub>2</sub> emissions by 41.6 tonnes/year.



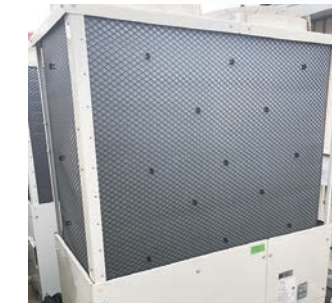
### Reducing Compressed Air Leaks in Our Plants

We replaced the underground air piping at our Shiga D Plant with overhead piping. By reducing underground air leaks, we succeeded in reducing our CO<sub>2</sub> emissions by 63.9 tonnes/year.



### Additional CO<sub>2</sub> Reduction Measures

We replaced three old air conditioners in our Kyoto Plant and 28 ceiling ventilation fans in our Shiga Plant with highly efficient devices, thus reducing CO<sub>2</sub> emissions by 18.5 tonnes/year.



Updated air conditioners



Updated ceiling ventilation fans

### Streamlining Product Shipments

When transporting finished vehicles, we emphasize cargo loading efficiency in order to reduce the fuel consumption of transport trucks and the resulting exhaust emissions.



### Improving the Wood Pallet Collection Rate

In order to reduce the amount of wood pallet waste generated, we place used wood pallets in fixed locations and request that our suppliers retrieve their used pallets whenever they make a delivery.





## 1

## Relationship with the Community

### ① Participating in the Nagaokakyo City's Environmental Fair

According to the Environmental City Declaration of Nagaokakyo, the city's environmental fair is held annually with the aim of raising the environmental awareness of members of the public regarding prevention of global warming. In fiscal 2019, this event was held at the Nagaokakyo City Central Community Hall on November 16.

On the day of the event, various immersive exhibits and exhibition booths were set up to raise awareness of environmental issues. Many agricultural products went on sale at the same time. The company, headquartered in Nagaokakyo, also exhibited at this event and presented information on its environmental initiatives.



### ② Weeding Project in Collaboration with the Community Association

Every year in early July, the local community association located adjacent to the Shiga Plant carries out weeding work along the Sanmei River. The road that follows this river is also a route for commuters traveling to the company from the nearest train station. On July 7, 2019, about 30 individuals from our company, neighboring businesses, and the local community association participated in the project to remove weeds with weed cutters and collected the harvested grass.



### ③ Participating in the Cleaning and Beautification Initiatives of Neighboring Waterways

In June of each year, local community associations in the neighborhood of the Azuchi Plant hold a community beautification campaign known as the Oiso Cleanup Initiative.

In fiscal 2019, we participated in this community cleanup initiative on June 23 arranged by the adjacent community association. On the day, our participants were assigned to waterways neighboring the Azuchi Plant. They worked together with local residents to remove the mud, sand, and waterweeds that had accumulated in the waterways.



### ④ Participation in Reed-Harvesting in Lake Iba-naiko

Our Shiga Plant participates as a partner in the Network to Protect Lake Biwa with Yoshi Reed. In our participation in volunteer nature conservation initiative, we promote the sound development of reeds that help preserve the lake environment, ecosystem and landscape of Lake Biwa. In fiscal 2019, the event was held on December 7 and our participants engaged in the work of cutting reeds with a sickle and bundling them.



## 2

## Environmental Management Systems

### ① Environmental ISO Audits

By conducting internal audits twice yearly and undergoing an annual audit by external auditors from the certification organization, we confirm that ISO standards are used as effective business improvement tools to maintain or continuously improve our environmental management systems.

### ② Internal Auditor Training

In order to upgrade the skills of our internal auditors, we held ISO Internal Auditor Skill Improvement Training Sessions on October 23 and on November 7 and 8. About 90 employees took part in these sessions.

### ③ Emergency Preparedness

Each plant launched an emergency preparedness initiative as a precautionary measure to reduce the likelihood of accidents and emergencies. In preparation for an emergency, we provide periodic emergency response training in the workplaces whose facilities have the potential to greatly impact the environment.



(Shiga Plant)



(Kyoto Plant)



(Azuchi Plant)

## 3

## Environmental Impact Reduction Initiatives

### ① Encouraging Scheduled Light-Dimming

As measures intended to help prevent global warming, we have implemented our Workplace Light-Dimming initiative, which includes lowering air conditioning and shutting down PCs on a company-wide basis according to a regular work schedule set individually by each location. Moreover, initiatives intended to promote work efficiency and encourage the completion of work on schedule have been implemented.

## 4

## Contributing to the Community

### ① Cooperating with Blood Donation Drives

Every year, our Kyoto, Shiga and Azuchi Plants donate blood through blood donation drives initiated in response to requests from the Blood Center of the Japanese Red Cross Society. In fiscal 2019, we welcomed the participation of a total 240 blood donors at the Kyoto Plant in addition to 133 at the Shiga Plant and 63 at the Azuchi Plant. In the future, we intend to continue participating in this endeavor as part of our contribution to the essential health of our communities.



### ② Opening of Regional Social Welfare Facilities

The Kyoto Plant rents out its grounds to various groups on request, including the Otokuni Fire-extinguishing Technique Association as well as the organizers of the Nagaokakyo Garasha Festival and participants in gateball (a type of croquet) competitions. In this way, the Kyoto Plant is helping to revitalize the region.

### ③ Providing Work Experience for Students from Neighboring Junior High Schools

From June 10 to 14 we hosted two junior high school students from schools in the Azuchi Plant neighborhood for work experience. These students were introduced to the Azuchi Plant and were able to deepen their understanding of the operations conducted on the production site.

In addition, on July 4 and 5 and from November 6–8, we hosted four additional junior high school students from each of the two junior high schools near our On-site Training Center. They were able to put their hands on our products while learning about the work of our training center.

We hope these opportunities help these students make important decisions about their future careers and their choice of employer.



### ④ Cooperation with the Hakone Trust

We were a charity sponsor supporting the CAT Ladies Golf Tournament held on August 23–25, 2019, setting up the venue for an “approach shot for charity contest.” The charity funds gathered were donated to the Hakone Town Resource Maintenance Foundation (Hakone Trust) for the protection of the natural environment and cultural assets of Hakone, a town designated as a national park.



### ⑤ Participation in the Hataraku Norimono Collection 2019

We exhibited at Hataraku Norimono (“industrial vehicles”) Collection 2019, an industrial exhibition held at Mitsubishi Minatomirai Industrial Museum from May 29 to July 1. This event is held every year on a different theme. In 2019, the theme covered multiple projects such as model railroads and fire brigade workshops. The exhibits focused on actual examples of vehicles that support industry; safety and security; life and leisure; and community. We provided a forklift truck, a turret truck, and other exhibits that enabled visiting children to deepen their understanding of the purpose and functions of the vehicles that help support their lives.



### ⑥ Participation in Local Disaster Drills

Our On-site Training Center participates in the Sugito Town Community Disaster Response Drill held as part of the town's disaster preparedness initiative. In fiscal 2019, this event was held on November 13 with 123 participants, including the organizing staff. We provided a site for this training to take place and helped raise local awareness among all neighborhood residents regarding the need to improve disaster preparedness. Participants were able to take part in the Earthquake Vehicle Experience, which enabled them to feel the sensations of a quake with a seismic intensity of 7 and really experience the sense of alarm triggered by an earthquake. At the Smoky Building Experience, participants learned about the power of smoke by enduring the suffocating effects of pure white smoke filling an interior space while proceeding toward the exit in a crouching posture. They also took part in fire-fighting practice with fire extinguishers.

