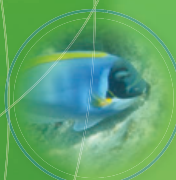




# 2015 FUJIREBIO INC. ENVIRONMENTAL REPORT



# Fujirebio Group contributes to global healthcare.

Since the company's formation, under its management philosophy of contribution to global healthcare, Fujirebio Inc. has supplied innovative products, technologies and information mainly in the area of clinical diagnostics, thus aiming at the realization of being a global life science company with higher corporate values.

Hospitals and medical care facilities worldwide are actively engaged in developing therapeutic drugs to overcome various intractable diseases and at the same time, are still longing for development of clinical diagnostics\* and test equipment for early detection and clinical diagnostics of diseases.

Our key products, which include clinical diagnostic reagents related to AIDS, cancer, hepatitis, influenza and other diseases, are utilized at clinical sites domestically and abroad. In addition, our Lumipulse Series, which incorporates clinical diagnostic reagents and testing instruments, has garnered high ratings as a comprehensive testing system both in and outside of Japan.

Fujirebio Inc. will continue its contribution to worldwide healthcare through the creation of new values with full awareness and responsibility for human life and health.

\*Clinical diagnostics: Clinical diagnostics are testing reagents that are not used directly for the human body but are intended for use in the diagnosis of disease, including determination or detection of substances or biological activities using blood, urine, or other substances taken from the human body as a specimen.

## Corporate Profile (as of April 1, 2015)

**Company name** : **Fujirebio Inc.**  
**Inception** : July 11, 2005 (corporate split)  
**Head office** : Shinjuku Mitsui Building,  
 2-1-1 Nishishinjuku, Shinjuku-ku,  
 Tokyo 163-0410  
 TEL : +81-3-6279-0800  
 FAX : +81-3-6279-0854

**Representative** : President & CEO, Takeshi Koyama  
**Business Activities** : Manufacturing, sale and import/  
 export of clinical diagnostic  
 reagents and assay instruments.

**Paid-in capital** : ¥4,252,902,860

**Plants and Offices** : Shinagawa Office, Hachioji Facility, Obihiro Facility, Ube Facility,  
 Distribution Center, Kuki Distribution Center, Tokyo Branch (in  
 the Shinagawa Office), Capital Region Branch (in the Shinagawa  
 Office), Hokkaido Branch, Tohoku Branch, North-kanto Branch,  
 Wangan Branch, Chubu Branch, Osaka Branch, Chushikoku  
 Branch, Kyushu Branch

**Number of employees** : 627 (as of the end of March 2015)

## Origin of corporate name

The "rebio" part of the corporate name consists of "re" from the word revival and "bio," meaning life. The name is intended to symbolize the wish for restoration of life, which has been our dream and goal since the company's inception.



LUMIPULSE® L2400



LUMIPULSE® G1200



LUMIPULSE® reagents



ESPLINE®  
Influenza diagnostics



IQ200 Sprint / iChem Velocity



LUMIPULSE® G600 II



## Environmental Policy

### 1. Creation of Environmentally-Friendly Products

In an effort to respect the environment in all stages of activity (from product design to disposal),

We endeavor to manufacture products that are environmentally friendly.

### 2. Prevention and Abatement of Pollution

We actively confront the issues of pollution prevention and abatement by implementing thorough safety measures in the management of chemical and microbiological substances.

### 3. Energy Saving, Resource Conservation and Recycling

All of our divisions are committed to waste through the promotion of energy saving, resource conservation and recycling.

### 4. Regulation Compliance

We fully observe and comply with all environmental protection laws, regulations, ordinances and agreements at the national, regional and local levels.

### 5. Review and advancement of Environmental Management System (EMS)

We periodically review environmental objectives and set goals to ensure the continuous advancement of EMS.

### 6. Specifications of Organization and Authority

Our written outline of specifications for organization and authority concerning the EMS constitutes the core around which all members of company base their actions.

We expect our partners to support the terms of this policy.

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### About the Fujirebio 2015 Environmental Report

- Coverage: All business offices of Fujirebio Inc.
- Please note: This environmental report was primarily written based on the 2014 report, including data categories. However, it also includes new topics and articles required to complete the 2015 report.
- Next Issue: October 2016

## Editorial Policy

This report has been issued with the aim to make easily understood the environmental activities we have been conducting in order to further enhance our credibility to both internal and external stakeholders.

We have endeavored to create this 11th report in a manner which helps to give a holistic view of our ongoing environmental protection activities for our employees, people in the community, and our shareholders, in line with the editorial policy from previous issues.

There has been broad globalization trend at our company; more than 40% of our staff now consists of members in our overseas group companies.

This report also introduces a summary of environmental activities undertaken at overseas group companies. A major future theme will be to share (globalize) the environmental activities of all group companies, whether domestic or abroad, to the greatest extent possible while also respecting the unique characteristics of each region.

### In preparing the 2015 Environmental Report, emphasis was placed on the following two points:

#### 1. Coverage

We referred to the Environmental Reporting Guidelines by the Ministry of the Environment in order to aim for systematic information disclosure in drafting our report.

#### 2. An easy-to-understand arrangement

We paid attention to the construction of chapters, sections and layout, and also gave consideration to visual presentation by use of illustrations and photos.

\*Fujirebio's Environmental Report is posted, as an annual report, on our website together with the Japanese version.

## Fujirebio continues to integrate environmental considerations and social responsibilities into all of its sustainable business activities as the driving force behind the Fujirebio Group.



小山剛史

**Takeshi Koyama**

President & CEO

Depletion of energy resources, global warming brought about by climate change, and other environmental issues occurring at a global level have developed into urgent issues that must be dealt with on a global scale. Proactive measures to protect the environment, beginning with the conservation of resources and energy, are now expected of companies as their corporate social responsibility.

As a global life science company, Fujirebio aspires to contribute to society based on our management philosophy that affirms that, "Contributing to Global Healthcare through the Creation of New Values with Respect for Human Life and Commitment to People's Health." As part of our environmental statement aimed toward the realization of our philosophy, we have established the intent to make all possible efforts to protect the environment, and are committed to maintaining good relations with local communities. Since acquiring ISO 14001 certification in 2001, we have continued to proactively engage in activities that reduce burdens imposed on the environment. With regard to reducing energy use, waste, and CO<sub>2</sub> emissions - which one could argue sits at the very foundation of this - we have set 5-year medium-term targets as well as annual targets, and our continued efforts have paid off with increasingly successful results.

As a company involved in the manufacture and sale of medical products, we believe that providing the world with products that are safe, effective and give ample consideration to environment will result in maintaining health and curing disease across an even wider spectrum of people. At Fujirebio Group, each day we strive to turn the idea of earth-friendly manufacturing into reality by carefully evaluating every process in the supply chain, including every stage from product design to raw material procurement, production, and sales.

Our environmental activities run in parallel with our business activities, and play an important role in our activities that focus on finding ways to contribute to society. In our environmental management system, for the past few years each site has conducted discussions to define "environmental activities in line with business activities." The results of these discussions are then reflected in company-wide activity targets and their specific details. A few years ago, we also embarked on external stakeholder activities in addition to our internal environmental activities in a move to gradually expand the scope of our environmental efforts. We fully intend to continue proactively engaging in initiatives that will serve as a driving force behind the CSR efforts of Miraca Holdings.

We intend to communicate our environmental efforts in a direct and transparent manner through this report. We anticipate your thoughts and advice which further develop our EMS and environmental activities.

## Topic 1: Environmental Discussion

### Reviewing environmental impacts directly related to operations

The “Study of business-related environmental aspects” we began in FY2013 now marks its second year. In FY 2014 we studied the environmental impact of business activities that relate to our products and services.

In the 2015 version of ISO 14001 it sets forth that the life cycle of products and services be taken into consideration, and as such the importance of such studies continues to increase. In our previous discussion efforts focused on core business activities. However, as shown in the summary below, environmental aspects pertaining to customers, business partners (i.e. procurement, transport, distributors, disposal), and government organizations were also identified. In addition, we have also identified environmental aspects that affect the entire company in activities that have little relation to our products and services.

Business unit	Upstream	Downstream
Sales	Customer (requests, complaints)	Customer (product use, materials, waste)
Global sales	Overseas distributors, subsidiaries, marketing-related departments	Overseas regulatory authorities, overseas distributors, overseas customers
Production	Procurement of raw materials (production, transport), regulations (government)	Transport contractors, customers, waste management contractors
Supply chain	Product suppliers, packing, production management, customer complaints	Product shipping (domestic and international), sales management
Quality assurance	Product lifecycle, customer complaints	Product lifecycle associated with design changes, complaints handling
Research and development	Raw material procurement, customer needs.	Customer (product use, materials, waste)
	Domestic laws and regulations	Each government agency
Marketing	Customer use-environment	Downstream: Design, development, R&D

Corporate planning (approval requests, internal control), Accounting and finance (slip processing, dissemination of manuals), HR (medical examinations, education and training), General Affairs (vehicle management, facility management, BCP, document management) → Downstream: environmental impact from departments company-wide.

With regard to FY 2015, a detailed action plan will be formulated based on the above review, after which another review will be conducted to consider items that are to be reflected in the overall company's midterm targets from FY 2016. The aim of this process is to select activities that can contribute to protecting the environment.



## Topic 2: Energy-Savings Assessment

The company obtained approval for a subsidized project to assess potential CO<sub>2</sub> reductions and propose measures, and then subsequently carried out the energy-savings assessment at key workplaces. This project is intended to gain insight into effective CO<sub>2</sub> reduction measures based on measuring and assessing factors such as the deterioration and operational status of equipment in the workplace.



Installing measuring equipment



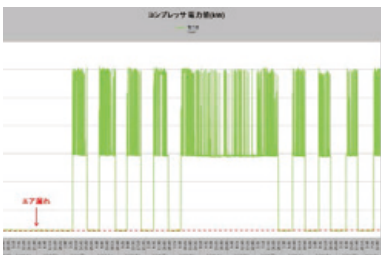
Measuring CO<sub>2</sub> concentrations



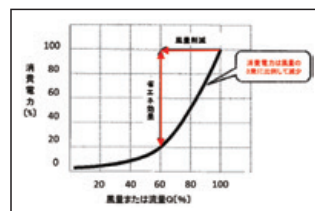
Checking thermal insulation of warehouse ceiling



Checking insulation capacity of steam pipe valves



Checking compressor air leakage



Energy saving example: Air flow was reduced from 100% to 60% by installing an inverter on the pump.



Presently operating at a steady air flow

## Fujirebio's business activities and their impact on the environment

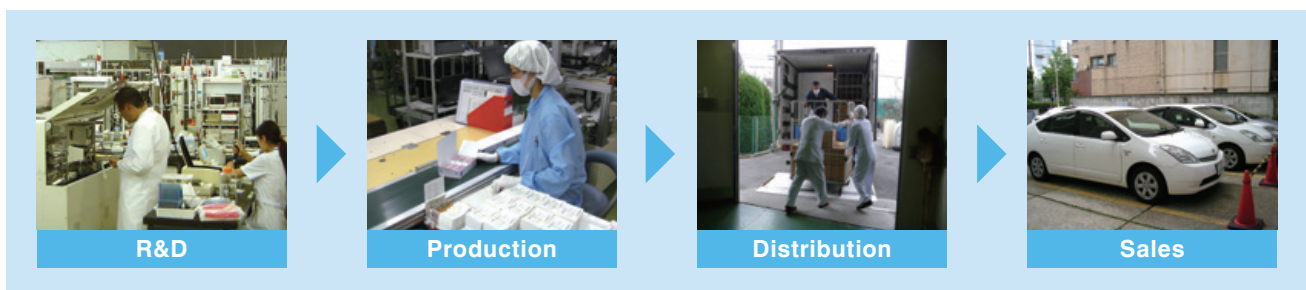
**Fujirebio pursues the creation of a recycling-oriented society by grasping an accurate understanding of environmental impacts caused by our business activities.**

By reducing the use of raw materials, improving productivity, and implementing energy-saving activities, we conduct our business in a manner that reduces emissions that harm our environment. Also, by taking

environmental impact into consideration in every stage from manufacturing to services, and by managing environmental impact with targets for inputs and outputs, we have achieved year by year improvements.

Energy		Water		Containers and packaging	
<b>Electric:</b>	11,871.0 thousand kWh	<b>Surface water:</b>	53.2 thousand m <sup>3</sup>	<b>Glass containers:</b>	29.7 t
<b>City Gas:</b>	326.5 thousand m <sup>3</sup>	<b>Groundwater:</b>	0.0 thousand m <sup>3</sup>	<b>Plastic containers:</b>	169.8 t
<b>LPG: (liquid petroleum gas)</b>	16.8 thousand m <sup>3</sup>			<b>Rubber:</b>	5.5 t
<b>Light diesel oil:</b>	5.6 KL			<b>Metal:</b>	2.6 t
<b>Gasoline:</b>	221.2 KL			<b>Packaging materials (paper):</b>	220.8 t
<b>Kerosene:</b>	100.2 KL				
		Chemical substances			
		<b>PRTR substances:</b>	1.0 t		
		<b>Raw materials and other:</b>	30.1 t		
				Paper	
				<b>Copy paper:</b>	10.6 t

INPUT



OUTPUT

Waste		Air		SS:	
<b>Total output:</b>	304.7 t	<b>CO<sub>2</sub></b>	9,698.4 t	<b>PRTR substances:</b>	0.1 t
<b>Recycled amount:</b>	275.8 t	<b>PRTR substances:</b>	0.1 t		
<b>PRTR substances:</b>	0.6 t				
		Water category			
		<b>Total wastewater:</b>	41.0 thousand m <sup>3</sup>		
		<b>Drainage to public water areas:</b>	8.6 thousand m <sup>3</sup>		
		<b>Drainage to sewage system:</b>	19.7 thousand m <sup>3</sup>		
		<b>BOD:</b>	0.4 t		
		<b>COD:</b>	0.3 t		
				Containers and packaging* (plant waste)	
				<b>Glass containers:</b>	0.0 t
				<b>Plastic containers:</b>	0.0 t
				<b>Rubber:</b>	0.0 t
				<b>Metal:</b>	0.0 t
				<b>Paper:</b>	0.0 t



\*almost all completely recycled

**Environmental management activities**

**All of our sites including our group companies have obtained ISO 14001 Certification.**



**Policy and outline of EMS**

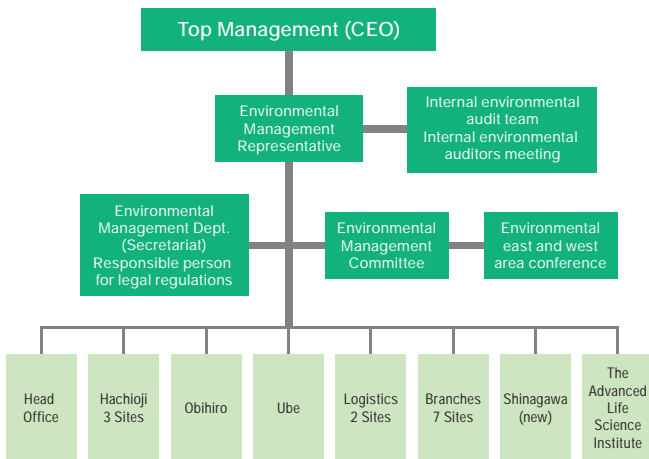
Every year management puts out a “Policy and Outline of the EMS,” which fleshes out the environmental activity items from the “Environmental Policy” that should be focused on in the fiscal year. EMS policy and the matters to be performed for achieving the policy are presented for fiscal 2014. Its contents are incorporated in the “company-wide EMS” including the group companies. EMS will be further developed according to the progress management of policy implementation during period and the output from top management in the quarterly “Environmental Management Review.”

**Environmental management promotion organization**

This organization includes the CEO, Environmental Management Representative, Environmental Management Committee, Environmental East and West Area Conference (broadcasted to all sales branches through a TV conference), and environmental meetings held under each site manager as lower organizations, thereby promoting the infiltration and continuous improvement of EMS. The representatives of group companies also participate in the Environmental Management Committee to construct close communication.

While EMS is applied through corporate-wide environmental documents and site procedures, a feature of our environmental management system is that we pursue originality appropriate for the environmental impact of each site with the site system introduced.

**● Organization of Environmental Management System**



\*TFB was consolidated on April 1, 2014

**Compliance with legal regulations**

The responsible person for environmental legal regulations sends legal amendment information to all the sites as “environmental regulations news” through the network using the legal regulating management tools every month. Each site checks and updates the registered latest legal regulating information bimonthly and evaluates the law-abiding regulation at least twice a year. Evaluation of legal compliance to laws and regulations, including all items of district ordinances, were verified in the review for fiscal 2014. Laws and regulations that were newly revised and enacted are included in these, thus we will further enhance the law-abiding system by implementing even closer communication between sites.

**Internal audit**

In order to ensure the independence and expertise of the audit, we have established an “Internal Audit Office” for the internal environmental audit. The results of each audit are reported to the president every month and an internal environmental auditor meeting is held quarterly by videoconference for reviewing internal audits and continuous training of auditors.

The internal auditors participate in an auditor training course by the outside lecturer once every year to brush up their auditing skills.



Internal auditor training

**Environmental discussion**

Our established custom of holding an Environmental Discussion company-wide each year is one of the distinct characteristics of our company’s EMS. All staff takes part in a thorough discussion based on a theme set by the executive office. The outcome of this is summarized by group to include a ‘Department’, ‘Site Environmental Objective’, and ‘Action’. These are then made into a theme for “Next Fiscal Year’s EMS Policy and Outline” to act as a company-wide goal. We will present a report from each site in the Environmental Discussion special feature of this issue.

Environmental objectives and results for FY 2014/Objectives for FY 2015

We will set specific targets wherever possible and develop earth-conscious business activities

FY 2014 was the second year to implement activities in our three-year midterm target (2013 to 2015), which was newly formulated using FY 2009 as a reference year. Despite difficult conditions under which to reach our annual energy saving and global warming prevention goals, we were still able to achieve our targets in each category. In the waste reduction category, the relocation of two offices (Shinagawa and Chubu offices) caused us to miss our combustible waste reduction goal. Meeting our office paper purchase reductions also proved difficult to achieve this year. Retention of ISO 14001 certification was also approved after undergoing an audit (valid from December 2013 to December 2016).

Item	Environmental Objective	Environmental targets for FY 2014	Assessment	Specific measures for FY 2014	Environmental targets for FY 2015
Energy saving / Prevention of global warming	Reduction of energy consumption	Reduction of 5% compared with FY 2009 (Factory: Floor space)	◎	100.8%	Reduction of 6% on a per basic unit compared with FY 2009
	Reduction of CO <sub>2</sub> emission	Reduction of 5% compared with FY 2009 (Originated in energy use)	◎	101.5%	Reduction of 6% compared with FY 2009
	Reduction of gasoline consumption	Further improvement of gas mileage	○	Eco activities and education record storage & management	Further improvement of gas mileage
Resource conservation / Waste minimization	Reduction of office paper purchases	Reduction of 5% compared with FY 2009	×	94.4%	Reduction of 6% on a per basic unit compared with FY 2009
	Reduction of waste (general waste)	Reduction of 2% compared with FY 2012	×	93.0%	Reduction of 3% compared with FY 2012
	Reduction of waste (industrial waste)	Reduction of 2% compared with FY 2012	◎	111.0%	Reduction of 3% compared with FY 2012
Legal regulations	Strict control for compliance with regulations under environmental legislation	Compliance with the amended Energy Saving Act and the amended Global Warming Solutions Act (Organized its administrative bodies and prepared a report and a plan for FY 2014.)	◎	176 laws and regulations compliance evaluation (including ordinances) at [entire sites] all sites	Compliance with the amended Energy Saving Act and the amended Global Warming Solutions Act (Organized its administrative bodies and prepared a report and a plan for FY 2015.)
		Compliance with amended Tokyo Metropolitan ordinances (Prepared a report for FY 2014 and complied with the mandatory reduction of total volume.)	◎	Preparing data on volume of energy used and CO <sub>2</sub> Emissions. A report on implementation and a plan submitted before the deadline	Compliance with amended Tokyo Metropolitan ordinances (Prepared a report for FY 2015 and complied with the mandatory reduction of total volume.)
Environmental care in products	Coping with environmental aspects of the business	Environmental aspect assessment and plan formulation	○	Environmental impact assessment at the company-wide Environmental Discussion	Environmental aspect assessment and plan formulation
Environmental documentation	Understanding of the environmental documentation management system	Continuation of periodic revision of all environmental documents for single year	◎	Level 1,2 documents (22) have been revised and registered Level 3 documents (149) have been revised and registered	Continuation of periodic revision of all environmental documents for single year
Operation control	Management of industrial waste disposal companies	Continuing implementation of reliability assessment	◎	Storing and managing agreements on observation of laws among 31 contracting companies	Continuing implementation of reliability assessment
	Promotion of eco-officing	Stricter control of eco-officing	◎	Achieving company-wide energy saving target planning	Stricter control of eco-officing
Environmental education	Implementation of the annual environmental education policy and outline	Implementation of FY 2014 environmental education policy and outline	○	Execution of FY 2014 plan by site and department (each site, department educational records, progress table management)	Implementation of FY 2015 environmental education policy and outline
Environmental communication	External communication with industrial waste disposal contractors	Continuation of commitment of compliance with laws to consignees	◎	Reception of responses from 31 industrial waste disposal contractors (Completion of record and registration at every site)	Continuation of commitment of compliance with laws to consignees
	Issuing of the environmental report	Issuance of Environment Report for FY 2014	○	Continually issuing	Issuance of Environment Report for FY 2015
	Improvement of internal communication	Implementation of company-wide environmental discussion and correction in FY 2014	◎	Discuss emergency responses and aspects that could affect the environment. Use this outcome to develop worksite activities.	Implementation of company-wide environmental discussion and correction in FY 2015
ISO environmental management	Responding to ISO 14001 external auditing	Responding to ISO 14001 continual assessment (including related company - Advanced Life Sciences Institute)	◎	Passing ISO 14001 audit to retain certification (including related company - Advanced Life Sciences Institute)	Passed continual assessment of ISO 14001 (including our group company, ALSI)
Internal environmental audit	Reinforcement of internal audit	Implementation of internal audit policy for FY 2014	◎	Completion of audit planning, implementation and review in FY 2014 (ensuring independence by establishing an internal audit office)	Implementation of internal audit policy for FY 2015
Social contribution	Continued issuance of medical science journals	Issuance of the academic journal Medicopia 2014	◎	Issuance of the 56th academic journal Medicopia 2014	Issuance of the academic journal Medicopia 2015
	Holding of educational lecture meetings and symposiums	Successive holding of seminars for FY 2014	◎	Holding of the 35th Medicopia symposium in FY2014	Successive holding of seminars for FY 2015
	Contribution to the blood collection businesses extensively	Continuation of contribution for FY 2014	○	Implementation of contribution items	Continuation of contribution for FY 2015
	Contributing to healthcare in the world	Continuation of cooperation with contribution for FY 2014	◎	Tutoring trainees at Hachioji Facility in 2014	Continuation of cooperation with contribution for FY 2015
	Contribution to the community	Continuation of holding and contribution for FY 2014	◎	Holding of the FY 2014 Summer Festival, cleanup activities, and plan execution at each site	Continuation of holding and contribution for FY 2015

Evaluation criteria: ◎Target achieved ○Target achieved with some improvement required △Efforts have been made but the performance evaluation is poor ×Target not achieved



## Regulatory Initiatives

### (I) Amended Energy Conservation Act: Report on Energy Use per Basic Unit

Fiscal year	2010	2011	2012	2013	2014
Energy use per basic unit	0.0815	0.0803	0.0792	0.0794	0.0789
Versus previous year (%)		98.5%	98.6%	100.3%	99.4%
Evaluation†		Achieved	Achieved	Not achieved	Not achieved

\*Basic unit = energy use (crude oil equivalent in kL) ÷ total floor area of all workplaces

†: Annual average 1% reduction obligation → 2010-2014 reduction rates remained at an annual average of 1.1%.

#### Specified business operator (total of all workplaces) CO<sub>2</sub> emissions by year

Electric, gas, kerosene	2010	2011	2012	2013	2014
Total CO <sub>2</sub> (t) emissions	6,425	6,821	7,373	8,245	9,185

Versus previous year
11.4%

Emissions increased in FY 2014 due to 11% increase in floor area from the addition of a new plant

#### <CO<sub>2</sub> Emission Coefficient by Power Company>

	Hokkaido Electric Power Co.*	Tohoku Electric Power Company Co.	Tokyo Electric Power Co.*	Chubu Electric Power Co.	Kansai Electric Power Co.	Chugoku Electric Power Co.*	Kyushu Electric Power Co.
FY 2013	0.000688	0.000600	0.000525	0.000516	0.000514	0.000738	0.000612
FY 2014	0.000678	0.000591	0.000530	0.000513	0.000522	0.000719	0.000613
Versus previous year	99%	99%	101%	99%	102%	97%	100%

### (II) Tokyo global warming countermeasure compulsory reductions and the emissions trading scheme: Compulsorization of emission reductions at the Hachioji office

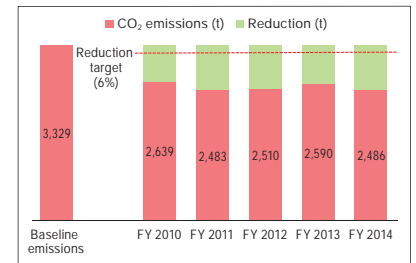
Item	Baseline emissions	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
CO <sub>2</sub> emissions (t)	3,329	2,639	2,483	2,510	2,590	2,486
Versus baseline emission amount		20.7%	25.4%	24.6%	22.2%	25.3%

Target Facility: Hachioji Office

Baseline emissions: Average of emissions between FY 2002 and FY 2004.

Obligatory reduction: Reduction of 6% or more versus CO<sub>2</sub> baseline emissions → 2010 to 2014 greatly surpassed the target at a 20.7%-25.4% reduction.

★Fujirebio has established a carbon emission trading account for the Tokyo Emissions Trading Scheme.



## Environmental Efforts

### Environmental performance – 1

## Expanding low-carbon-producing business activities to eliminate waste of energy and resources.

#### Reduction of CO<sub>2</sub> emission

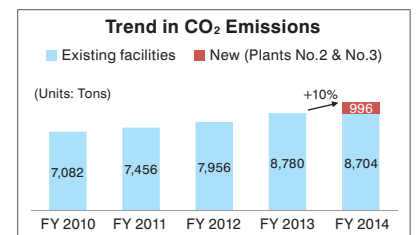
Coinciding with enactment of the Kyoto Protocol, since 2005 we have been measuring and striving to reduce our CO<sub>2</sub> emissions. We steadily reduced emissions up until 2010; however, they have increased some ten plus percentage points since the Great East Japan Earthquake in 2011. This was caused by an increase in the relative proportion of thermal power generated with fossil fuels. As a result CO<sub>2</sub> emissions greatly increased despite no increase in the use of electricity.

The 10% increase compared with FY 2014 was due to the addition of two plants.

In response to this we have directed efforts towards, for instance, improving the fuel consumption of our company vehicles, which are relatively insulated from the influence of weather and energy suppliers.

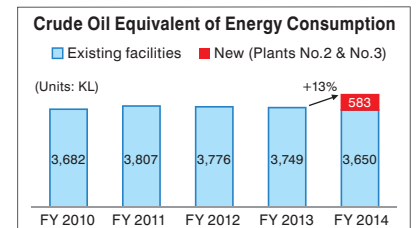
#### Efforts to reduce amounts of energy used

Coinciding with enactment of the Amended Energy Conservation Act, since 2010 we set reduction targets for energy use and have been taking intensive action to meet them. In particular, our Hachioji site, which is a major facility, has been classified as a “type-2 designated energy management factory” in the Amended Energy Conservation Act, and a “large scale establishment” in the Tokyo Metropolitan



Data correction factor	Hokkaido Electric Power Co.*	Tohoku Electric Power Company Co.	Tokyo Electric Power Co.*	Chubu Electric Power Co.	Kansai Electric Power Co.	Chugoku Electric Power Co.*	Kyushu Electric Power Co.
2010	0.433	0.468	0.384	0.474	0.294	0.628	0.369
2014	0.678	0.591	0.53	0.513	0.522	0.719	0.613
	157%	126%	138%	108%	178%	114%	166%

\*: The power company servicing the plant location



Ordinance on Environmental Preservation. We have been engaged in activities that focus on the systematic installation of energy saving equipment together with the strict maintenance of equipment.

We were able to reduce energy usage as result of these efforts, despite relocation and an increased floor area at the Obihiro office in FY 2011, as well as expanded operations (e.g. increase in offices) due to relocating our head office in FY 2012.

In FY 2014, however, the total amount of energy use increased due to the addition of manufacturing facilities - Plants No.2 and No.3.

The entire company made efforts to reduce energy use in FY 2015 as well, and is dedicated to achieving the mandatory energy reduction of 1% or more (per basic unit).

### Comparison of energy sources used

Electricity accounts for the largest portion of energy used with a ratio of 72%. Following electricity is, in order, LP gas, city gas, gasoline, and then kerosene. Another notable characteristic of our energy use was that factory and research sites accounted for 90% of total energy used, which is basically due to the fact that we operate as a manufacturer.

### Trend in amounts of electricity used

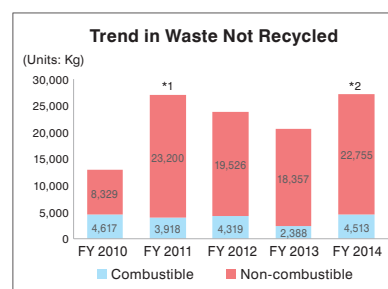
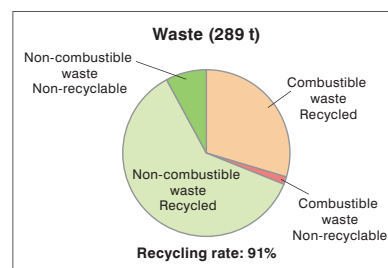
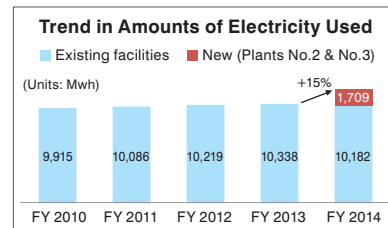
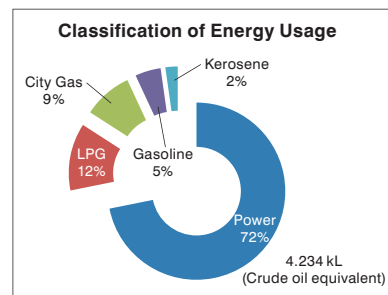
Taking into account our business expansion, we were relatively successful in limiting energy consumption increases. Nevertheless, the addition of two plants in FY 2014 led to an approximate 15% increase in consumption.

### Reduction of waste emissions and promoting its proper disposal

Since 2006 we have been promoting the separation and recycling of trash. By 2007, we achieved 100% recycling rate of combustible waste at our Hachioji site. Next, by 2010 we also became capable of recycling 100% of non-combustible waste at our Ube and Head Office sites. Through continued promotion of recycling efforts we reached a recycling rate of 91% by the year 2014.

However, there was a significant increase in the amount of waste emissions that could not be recycled. This was due to a number of factors that included sludge waste which was generated after treating laboratory animal manure in relation to the Obihiro office transfer in FY 2011, as well as a large quantity of trash generated due to both the relocation of the head office in FY 2012 and the elimination of the Hamacho office in FY 2014.

We intend to continue improving our recycle rate with the goal of zero emissions while committing efforts to reduce overall emissions across all sites.



## Control of chemical substances

Name of substances	Total Handled (kg)	Release			Transfer		Consumption	Removal and Disposal
		Air	Water	Land	Wastes	Sewerage		
1 Acetone	196.0	0.0	0.0	0.0	196.0	0.0	0.0	0.0
2 Formaldehyde	189.3	1.7	0.1	0.0	129.9	0.0	0.0	0.0
3 Sodium azide	124.1	0.0	8.2	0.0	1.8	28.0	86.1	0.0
4 Hydrochloric acid	87.8	0.0	0.0	0.0	1.1	30.2	56.5	0.0
5 Methyl ethyl ketone	78.1	58.1	0.0	0.0	20.0	0.0	0.0	0.0
6 Acetonitrile	76.5	0.0	0.0	0.0	72.7	2.4	0.0	1.4
7 Ethyl sulfate	61.2	0.0	0.0	0.0	60.0	1.2	0.0	0.0
8 Chloroform	27.6	0.0	0.0	0.0	27.6	0.0	0.0	0.0
9 Toluene	25.3	0.0	0.0	0.0	25.3	0.0	0.0	0.0
10 Glutaraldehyde	24.5	0.0	0.0	0.0	0.0	24.5	0.0	0.0

## Environmental Protection Initiatives

### <<Improvement of Fuel Consumption and Mileage Tracking>>

The number of company vehicles we use to conduct sales activities increased from 153 in FY 2010 to 171 in FY 2014.

During this period the number of low-emission hybrid vehicles improved from 65 to 116 vehicles through new vehicle purchases or changeovers. The remaining 55 vehicles are four-wheel drive as they need to be operated in mountainous and snow-covered areas.



FY 2010  
101.6 ha

FY 2014  
77.4 ha

Converting refueling amounts of CO<sub>2</sub> into plantation forests results in a 24.2 ha abatement.



FY 2010  
93,472 trees

FY 2014  
71,208 trees

Converting amounts to a planting area that absorbs a year's growth of a cedar trees results in a reduction equivalent to 22,264 trees worth.



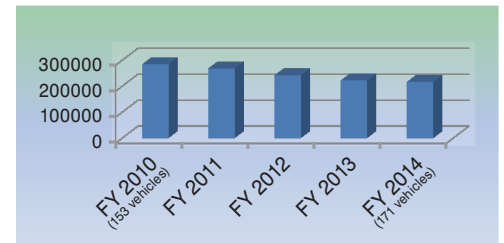
FY 2010  
Equivalent to  
110,113  
2L PET bottles

FY 2014  
Equivalent to  
83,425  
2L PET bottles

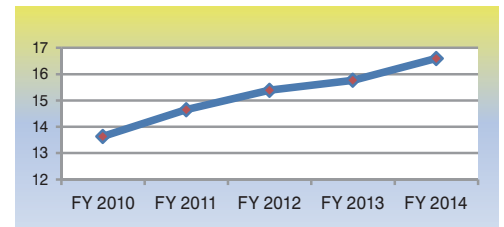
Although the number of vehicles under management increased due to the expansion of our operating area, we have significantly reduced the amount of fossil fuel gasoline used by improving fuel consumption. This has been accomplished through such means as introducing low-emission vehicles and operating vehicles with eco-driving techniques.

Sources: See Summary of Calculation Methods and Emission Factors in the Emission Calculation, Reporting and Public Disclosure system (Ministry of the Environment)  
See Forestry Agency, Japan Forestry Association

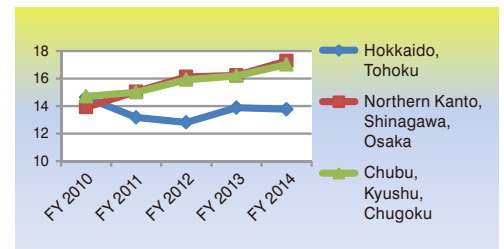
#### Refueling (L)



#### Fuel Consumption (km/L)



#### Regional Difference in Fuel Consumption



\*: Hokkaido has a higher ratio of four-wheel drive vehicles

### FY 2014 - Earned an Award of Excellence in the Eco-Driving Competition!

Promoting eco-driving has the indirect benefits of improved fuel economy - which ties to reduced environmental impact, reduces the cost of processing accident claims, and reduces insurance premiums.

It also has the direct benefit of reducing accidents. 171 cars are used by our sales department. In our initiatives to promote lower fuel consumption, we participated in a foundation-sponsored Eco-Driving Competition, and upon inspection we were awarded an Award of Excellence in the general category of white-plated passenger series vehicles.

**\*We received our excellent certificate at the FY 2015 Eco-Driving Competition**



All sales branch managers and safe driving supervisors



### <<Green Purchasing and Promotion of Green Printing Efforts>>

We use green purchasing to procure consumables used in the office, and green printing whenever generating printing matter.



## Environmental Issue Initiatives (and other efforts to reduce environmental impact)

### <<Reduction of Packaging Sizes and Introduction of Refrigerated Shipping Containers>>

A few years ago we began making our product containers more compact, beginning with domestic-bound and then followed by international-bound packages. We have now completed the switchover of all packaging into a more compact format. As a result of these efforts, not only have we reduced the amount of waste on the customer's end, but have also succeeded in reducing shipping costs.

Due to the nature of pharmaceutical products, many require cold storage. Thus when shipping overseas we used to package product in insulated packaging material with styrene as well as large amounts of ice packs. However, we were able to dramatically reduce the amount of packing material and ice packs discarded on-site by the introduction of refrigerated containers in FY 2014.



## Community Activities

### <<Nationwide Expansion of Our Community Clean Up Activities>>

At each of our business locations nationwide we carry out clean up activities around the buildings, either together with the community or on our own.



Cleaning up around Ube Office



Cleaning up around Head Office (1)



Cleaning up around Head Office (2)



Cleaning day at the Head Office tenant bldg.



Osaka Office staff clean around the station



Sapporo Office staff clean around the station



Snow removal at Obihiro Office



Cleaning up around Obihiro Office

## Building a Relationship with the Community

### <<Annual Summer Festival>>

The Hachioji office has established an annual custom of holding a summer festival, and this year was no exception. An impressive social event was achieved thanks to the approximate 2000 local people who participated in the festival.



### <<Academic and Cultural Exchange with Local Communities>>

"Approached from the perspective that the basic function of business activities is to contribute to society," the Medicopia Educational Symposium, which has been held every January since 1981, and academic book publisher Medicopia continue to deliver this academic and cultural activity that provides people with a wide range of medical knowledge and information.



Medicopia Educational Symposium 2015



## Introduction to New Site Activities

### <<Shinagawa Office>>

The Shinagawa office is a 10 minute walk from the Konan exit of the JR Shinagawa Station in the Rivarge Shinagawa building (floors 13 and 14), which is located between JR and the monorail along Takahama Canal. Relocated from the Hamacho office in November of 2014, this location employs 64 members primarily as DMR (Diagnostics Medical Representative) and TR (Technical Representative) staff in the domestic sales department.

The building is outfitted with a Customer Experience Room (CER) in the Scientific Information Service Department and Training Room in the System Maintenance Service Department, which are used by visitors and internal staff for observation tours as well as to conduct operational and other training.

Since the Shinagawa office is shared by the NA Department, East-Japan Sales Department (Tokyo and metropolitan region branches), System Maintenance Service Department (TR Tokyo Group 1/Group 2G/TR Support), and Sales Support Department (Wholesale Planning and Promotion Group), reduction of gasoline used in company vehicles draws the most attention here.

Currently, DMR and TR staff uses 49 company vehicles. The aggressive switchover to eco-cars is almost complete (40 of 49 vehicles), so we will next focus on promoting eco-driving. For the company vehicles of Metropolitan region branches that conduct business in neighboring prefectures, we have taken measures such as having vehicles parked near the business area to reduce long distance drives.

We anticipate a positive outcome in terms of fuel consumption as the Shinagawa relocation makes it possible to avoid traffic congestion at Hakozaki, which until now has been a difficult struggle.

The office not only holds separate meetings for the Environmental Management Committee once per fiscal quarter, but also discusses environmental issues and activities at monthly meetings in each department.



Customer Experience Room (CER)

### <<Chubu Branch>>

On September 1, 2014, the Chubu branch relocated from a wholesale leased four-story building in Kamiyashiro, Meitoku, Nagoya City (where they were based for over 20 years), to a tenant building near Nagoya station.

This branch currently has 24 resident staff consisting of 12 DMR members, 10 TR members, and 2 clerical/supervising pharmacists, plus an additional 2 members stationed in Hokuriku,

taking in charge of business in a wide territory. The Sales department won the eco-driving award last year. This big branch feels a great sense of responsibility for maintaining the award in the future.

The site has about half the area of the previous office. Trash disposal, separation and other waste-related matters are carried out according to the building's rules, and monitoring and measurement targets have changed significantly this year.

Now that a year has passed since relocation, there is a better appreciation of the importance of community interaction and external communication at the new office.

In April of this year, both the Site Manager and Environmental Activities Manager changed, and the organizational body went through a complete transformation. However, time is set aside in business meetings each month to discuss environmental and quality policies, and they continue to carry out activities to promote a better understanding of progress made. In September was an audit to retain ISO 14001 certification, wherein the branch was rated highly the comment, "All members in the site have a good grasp of environmental initiatives."

In the years to come, we will continue to make concerted efforts to enable Chubu branch to sustain its current favorable environmental protection environmental protection.



Chubu Branch Office

### <<Plants No.2 and No.3>>

On April 1, 2014, Hachioji Plants No.2 and No.3 became new Fujirebio facilities as a result of the acquisition of TFB, Inc. Since the plants were already engaged in environmental activities as one of Fujirebio sites, they are not perceived as new sites and are already committed to even higher goals.

#### Plant No.2 Site

Plant No.2 has adopted Hachioji Logistic Center's environmental activities last year and is currently monitoring various environmental aspects.

The site itself is comprised of two units - the logistics center and the plant. The logistics center in the hands of Supply chain department, while the plant in the hands of Production and administrating departments - and so although the buildings are in close proximity, they do not share the same plot or building. In terms of staff, there are 3 staff members at the logistics center and the 7 staff at Plant No.2. Total combined area of all facilities is 1180m<sup>2</sup>. Of this 1/4 is dedicated to a cold room (freezer), thus the most significant environmental aspect at this location is electric consumption. Because office paper is purchased on a department-by-department basis they must be relied on to manage paper usage. Plant No.2 also strictly adheres to the Radiation Hazard Prevention Act because it handles radioactive material.

In addition, given that neither properties belong to the company; environmental activities are carried out together with the property owner.

### Plant No.3 Site

There are a total of 49 staff members at Plant No.3, comprised of 18 production staff, 23 quality assurance department staff, 7 information systems staff, and 1 person in general affairs. The area of the site 771m<sup>2</sup>, which is the building area of the six-story building.

This fiscal year, the Plant No.3 building became the property of the company. Up to this point, environmental activities were conducted while communicating with SRL Inc., owner of the building. However, now Fujirebio is fully responsible for all activities and engages in reducing energy use on daily basis in collaboration with the general affairs group.

The building structure of Plant No.3 incorporates laminated base-isolating rubber to provide a seismic isolation structure, and

the building is supported by 21 individual rubber members. If an earthquake occurs, the shock is subdued by the system and the building rocks quietly with long, slow movements. Thanks to the seismic isolation structure of the building, there is no need to take extreme earthquake measures.

In the fall, fallen leaves from cherry trees accumulate in front of the entrance. As a part of our environmental activities we collect fallen leaves from around the premises to avoid disturbing or interfering with residents living in the area.



Black section below pillar shows the laminated base-isolating rubber

## Environmental Activities of Overseas Subsidiaries

Fujirebio's aim to be a global company has led it to establish manufacturing and sales bases in the US, Asia and Europe, enabling the company to provide clinical diagnostics to over 100 countries around the world. In its environmental activities Fujirebio, together with its overseas bases, is committed to taking action to conserve the global environment. Although environmental activities have been independently developed by Fujirebio and its overseas bases, the companies promote an open exchange of information on environmental issues and certification audit compliance, and have set up a system of mutual-collaboration. The following introduces a summary of activities conducted at overseas bases.

### Fujirebio Diagnostics, Inc. (FDI)

FDI, our US base, is ISO 14001 certified. FDI deploys its environmental activities under an environmental health and safety management system. Their primary activities are (1) compliance to legal requirements, (2) communication with stakeholders, including employees, (3) continuous improvement, including for environmentally conscious products, and (4) pollution control.  
(Reference: [http://www.fdi.com/about\\_us/environmental.html](http://www.fdi.com/about_us/environmental.html))

### Fujirebio Europe NV (FRE)

FRE, our European base, has begun building an environmental management system. They achieved ISO 14001 certification in 2013. Environmental activities at FRE are deployed under a system that has been integrated with the quality control system, and the company is working towards set goals of compliance with legal requirements and continuous improvement. A major activity at FRE is to perceive energy consumption as an important environmental aspect, and hence the company is currently engaged in a review of air-conditioning equipment. FRE is also looking closely at methods staff uses to commute.  
(Reference: <http://www.fujirebio-europe.com/about-fujirebio-europe/fujirebio-europe-and-iso-14001-standard>)

### Fujirebio Taiwan Inc. (FTI)

FTI, one of Fujirebio's bases in Asia, is responsible for the production of certain Fujirebio products. FTI maintains ISO 9001 and ISO 13485 certification, and has set up a system to ensure it complies with Good Manufacturing Practices (GMP). Although FTI has not acquired ISO 14001 certification, it continuously commits efforts towards fundamental environmental activities, some of which include compliance with local environmental laws and regulations, trash separation, reuse of office paper, and continuous improvement of business efficiency.

### Fujirebio Diagnostics AB

Fujirebio Diagnostics AB is a subsidiary of FDI. Based in Sweden, the company is engaged in the production and sale of clinical diagnostic reagents, reagents used in research, and raw materials. Fujirebio Diagnostics AB carries out environmental activities in accordance with FDI practices.



## Message from the Environmental Manager

I would like to start by mentioning how pleased I am that we could prepare and deliver this environmental report to our valuable stakeholders. Thank you for taking the time to read it.

Two important environment-related events took place in 2015: the COP21 Paris Agreement and ISO 14001 Standards Revision. We intend to carefully observe how the environmental policies by governments at national and local levels will evolve based on the Paris Agreement. The ISO 14001 Standards Revision is the first major revision of the standard since 2004.

Our understanding is that the focus of the ISO 14001 Standards Revision is to boost support in consideration of the value chain, and strengthen the environmental activities that incorporate individual processes in a company's core business. Well ahead of the curve, three years ago our company had already turned its attention towards business activities directly related to environmental issues, and have been advancing efforts to address them. We have also already started collecting and monitoring information on Scope 3\* emissions. We fully intend to further implement and accelerate such activities in the years to come.

We also look forward to continuing to take up the challenge we embarked on last year - to strengthen cooperative ties with SRL, another one of Miraca Group's leading companies. From the perspective of being a part of Miraca Group's CSR efforts, we will continue to engage in consistent and harmonious environmental activities that reflect our common purpose to embody the unique traits of Miraca. We will also endeavor to ensure these efforts link to tangible results via such means as eco-driving efforts, effective use of energy savings assessments, Scope 3 responses, and hands-on tree planting tours.

We intend to continue to promote further enhancement of Miraca Group's environmental activities, as well as our responses to aspects of our business that directly affect the environment. As always, we appreciate and welcome the encouragement we receive from our valued stakeholders. Thank you for your support.



**Akira Suenaga**  
Environmental Manager  
Fujirebio Inc.

\*In addition to Scope 1 emissions (fossil fuels, natural gas, etc.) and Scope 2 emissions (electricity), whose management is already mandatory under the Amended Energy Conservation Act, Scope 3 emissions (purchasing, transport, business trips, commuting, etc.) have also been requested to be managed and disclosed.

### NEW SITE ANNOUNCEMENT

#### Sagamihara Plant established

As a result of Hachioji Plant's plan to expand production line facilities, 2208m<sup>2</sup> of space at Miraca Group's SRL Sagamihara laboratory building was converted to a new site, the Fujirebio Sagamihara Plant, in September of 2015.





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