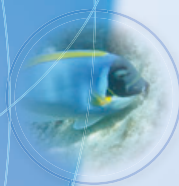




2016 FUJIREBIO INC. ENVIRONMENTAL REPORT



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, 2016)

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, Yoshihiro Ashihara
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, Hachioji Plant No.2, Hachioji Plant No.3, Sagami-hara Plant, Obihiro Facility, Ube Facility, Distribution Center, Kuki Distribution Center, Tokyo Branch (in the Shinagawa Office), Capital Region Branch (in the Shinagawa Office), Kanagawa Branch (in the Shinagawa Office), Hokkaido Branch, Tohoku Branch, North-kanto Branch, Chubu Branch, Osaka Branch, Chushikoku Branch, Kyushu Branch
Number of employees	: 575 (as of the end of March 2016)

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.



iQ200SPRINT/iChemVELOCITY



LUMIPULSE® L2400



LUMIPULSE® reagents



ESPLINE® Influenza diagnostics



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.

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 12th 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.

Although we introduced a report on environmental activities at our overseas group companies in the TOPICS section of our last report, a major theme in the future will be an effort to share (globalize) the environmental activities of all group companies—both domestic and abroad—as much as possible while also respecting the unique characteristics of each region.

Havoc and devastation from abnormal weather, which is said to be caused by global warming, is increasing globally each year.

The demand for industry to be environmentally conscious grows increasingly, and we are committed to expanding our voice and activities in facing the situation, no matter how large or small the effort. Our entire group is committed to making further improvements to reduce environmental impact.

In preparing the 2016 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.

*The Fujirebio Environmental Report is issued as a yearly report which is also made available on our website in Japanese and English versions.

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About the Fujirebio 2016 Environmental Report

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

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



A handwritten signature in black ink, reading 'Ashihara Yoshihiro'.

Yoshihiro Ashihara

President & CEO

Global warming, which has led a number of issues including energy resource depletion and climate change, has grown into an urgent issue that must be dealt with on a global scale in this century. 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 CO₂ 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, 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. In addition to our internal environmental activities, for several years now we have also been carrying out awareness campaigns aimed at external stakeholders 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.

Environmental Discussion

Reviewing environmental impacts directly related to operations

We have continued to implement Environmental Discussion to examine environmental aspects related to our business. We began holding these discussions in 2013, setting the themes shown below. By the time we entered the third year, we were formulating the implementation plan at a company-wide level.

In 2013, we firmly established activities that reduce paper, waste, and electricity as part of our routine work habits, and also focused on as closely examining the environmental aspects of our business activities.

In 2014, we identified the environmental aspects in our upstream/downstream processes (Scope 3 emissions) and conducted an environmental impact assessment.

In 2015, we formulated an action plan for each department and integrated it as a company-wide unified goal for FY 2016 forward. Shown below is an overview of the plan.

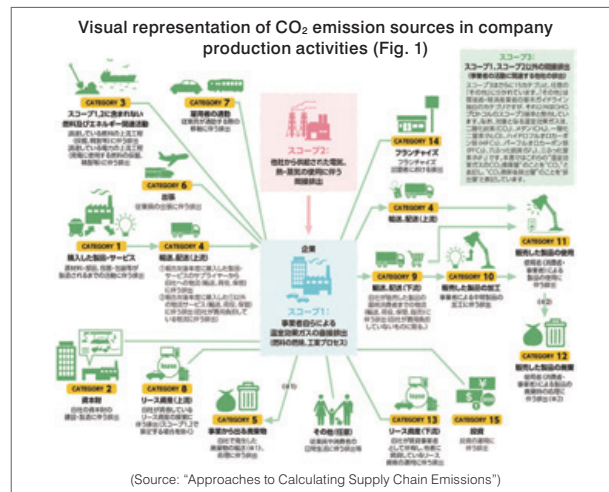
Domestic sales	Spread maintenance awareness; provide appropriate product information; optimize pamphlet distribution; reduce provision of products not for sale; optimize the frequency of staff dispatches due to calls from customers; create troubleshooting FAQs.
Overseas business	Reduce the number of shipments; optimize response time to customer calls; provide appropriate product information; reduce time spent in meetings.
Production	Unify manufacturing processes; produce inserts and labels in-house; reduce excess use of samples; improve replenishment tasks; reduce the production of defective product for CL4 equipment; change gas fuel; migrate to cell culture recombination type manufacturing; improve stacking cases for delivered goods.
Supply chain	Promote green purchasing; reduce phone call times; reduce idling time of deliverers; improve storage procedures in the storehouse.
Quality assurance	Reach out to relevant departments to reduce design changes occurring directly after technology transfer Exchange / replace equipment that uses CFCs. Reconsider the amount of reagent needed to be used in quality testing.
Research and development/ Marketing	Manufacture material in house; optimize cartridge reagent for body fluids labeling; reduce first proofs of revisions for label packaging; improve efficiency of evaluation-side operations; reduce the number of responses and submissions in the application process; reduce waste of expired reagent; improve Prelaunch Packet content.
General Affairs/HR/Accounting and finance/Corporate planning	Improve vehicle management, switch power supplier; improve man-hours; improve SAP work, improve the decision request process; improve the use of file server folders.

In FY 2016 we aim to begin practically applying our ideas and implementing activities that will reduce environmental impact and demonstrate compliance to ISO14001:2015.

Supply Chain (Scope 3)

In order to assess the environmental impact of providing a product or service, or 'life cycle assessment', we have begun monitoring direct greenhouse gas emissions from the company (Scope 1 emissions), indirect greenhouse gas emissions from the generation of purchased energy (Scope 2 emissions), and greenhouse gas emissions from the activities of other companies (Scope 3 emissions) in accordance with the guidelines established for each emission category while bearing in the value chain in mind.

	Scope 1	Scope 2	Scope 3
FY2014	2709.45t-CO ₂	5869.71t-CO ₂	19.2t-CO ₂
FY2015	2715.87t-CO ₂	5756.70t-CO ₂	19.8t-CO ₂



SCOPE 3 Emissions category		Calculated items	Unit	Calculation data	Calculation method	FY2014	FY2015	
Upstream	1	Purchased goods and services	Emissions associated with activities until a raw material, part, finished product, material relating to purchase, etc. is produced.	Amount per unit	Purchase price	CL equipment manufacturing consignment price conversion Producer price base No.267	5,948	6,847.4
				Amount per unit	Purchase price	Drug price amount conversion Producer price base No.126	6,382	6,270.3
	4	Upstream transportation and distribution	Emissions associated with transport of a raw material, part, finished product, material relating to purchase, etc. until it arrives at the company	Truck transport emissions	Packing weight-travel distance	Ton-kilometer method/Transported ton-kilometer × 2.585	1,895.0	1,892.9
	5	Waste generated in operations	Emissions associated with transport and disposal of waste product generated at our company	Unit of weight	Manifest	Unit of weight Incineration: 2.68; Waste-plastic landfill: 0.0851	758.1	197.5
	6	Business travel	Employee domestic and overseas business travel (Overseas includes up to Narita Airport)	Travel-transportation cost	Amount of payment	Travel cost Train: 1.37 CO ₂ -t/million yen (unified)	216.5	211.1
				Travel-transportation cost	Amount of payment	Suburban transportation cost Train: 1.37 CO ₂ -t/million yen (unified)	15.6	16.5
	7	Employee commuting (including with own car)	Emissions associated with employees commuting to the workplace	Transportation allowance	Amount of money	Train: 1.37 CO ₂ -t/million yen Bus: 2.42 CO ₂ -t/million yen Employee's own car: 2.20 CO ₂ -t/million yen	86.3 30.0 17.2	97.2 35.3 16.1
Downstream	9	Downstream transportation and distribution	Emissions associated with transportation of products, storage, handling of retail products	Truck transport emissions	Packing weight-travel distance	Ton-kilometer method/Transported ton-kilometer × 2.585	359.5	365.9
	11	Use of sold products	Emissions associated with the use of products by users (consumers/businesses)	Rated power-operation time	Number of units	CL units sold/rated power/8-hrs of operation/average coefficient of electric company	2,803.29	2,928.8
	13	Downstream leased assets	Emissions associated with operating leased assets	Rated power-operation time	Number of units	CL leased units/rated power/8-hrs of operation/average coefficient of electric company	904.05	891.1
Total						19,199.04	19,770.0	

*Reference: Basic Guidelines on Calculating Greenhouse Gas Emissions Through the Supply Chain (published by MOE/METI)

Environmental management activities

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



Policy and outline of EMS

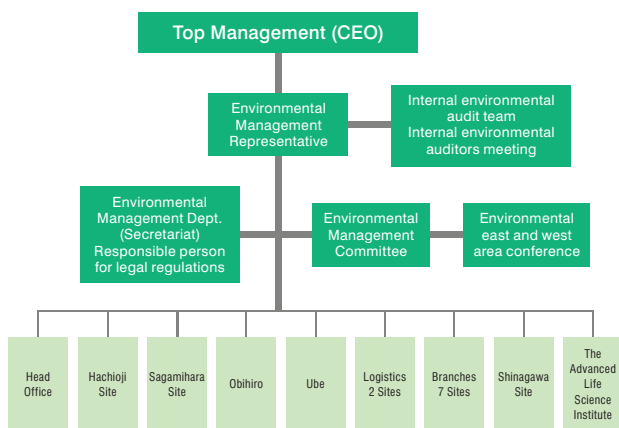
Every year management puts out a “Policy and Outline of the EMS,” which fleshes out the environmental activity items from the “Environmental Policy” that should be focused on in the fiscal year. EMS policy and the matters to be performed for achieving the policy are presented for fiscal 2015. Its contents 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. Representatives from group companies also participate in the Environmental Management Committee and have established close communication with each other.

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.

●Environmental Activities Promotional Structure (EMS Organizational Chart)



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 2015. 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

We have established an Internal Audit Office to ensure in impartiality in internal environmental audits.

In addition to reporting the results of audits to the president every month, internal environmental auditors hold a teleconference meeting each quarter where they review internal audits, present and discuss items identified by auditors, and work towards standardizing the evaluation standards. This provides a valuable opportunity for internal environmental auditors to continue their training.



Internal environmental auditors also participate in full-day auditor training sessions, held once a year, to brush up on their auditing skills.

Environmental discussion

The Environmental Discussion that we hold annually company-wide is an important of our EMS. During these, all employees engage in department-by-department comprehensive discussions based on the theme set by the administrative office. The outcome of this is summarized by group to include a ‘Department’, ‘Site Environmental Objective’, and ‘Action’. Next, these are made into a theme for the “Next Fiscal Year’s EMS Policy and Outline” to serve as a company-wide goal. A report on each site is presented in the Environmental Discussion special feature of this issue.

Environmental Efforts

Environmental objectives and results for FY 2015/Objectives for FY 2016

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

FY 2015 was the third year to implement activities in our three-year medium-term goal (2013 to 2015), which was formulated using FY 2009 as a reference year. Amid 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. Waste countermeasures were an incredible success, as no waste emissions were generated as a result of office closures like in 2014. Office paper reductions at our headquarters contributed to the entire company achieving its goals in reducing purchases of office paper. Retention of ISO 14001 certification was also approved after undergoing an audit (valid from December 2013 to December 2016). We also complied with leakage calculations in the mandatory 2015 amendment of the Freon Control Act. For our 2016 activities, we decided to (1) formulate an implementation plan for environmental aspects related to operations, and (2) adjust our energy use reduction evaluation standards to conform to the written report on the Energy Conservation Act.

Item	Environmental objective	Environmental targets for FY 2015	Assessment	Specific measures for FY 2015	Environmental targets for FY 2016
Energy saving/ Prevention of global warming	Reduction of energy consumption	Reduction of 6% on a per basic unit compared with FY 2009	◎	109.9%	Reduction over the previous year
	Reduction of CO ₂ emission	Reduction of 6% compared with FY 2009	◎	108.9%	Reduction over the previous year
	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 6% on a per basic unit compared with FY 2009	◎	108.8%	Remove from company-wide target and set as goal for only certain worksites
	Reduction of waste (general waste)	Reduction of 3% compared with FY 2012	◎	131.8%	Reduction of 4% compared with FY 2012
	Reduction of waste (industrial waste)	Reduction of 3% compared with FY 2012	◎	180.6%	Reduction of 4% 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 2015.)	◎	175 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 2016.)
		Compliance with amended Tokyo Metropolitan ordinances (Prepared a report for FY 2015 and complied with the mandatory reduction of total volume.)	◎	Preparing data on volume of energy used and CO ₂ Emissions A report on implementation and a plan submitted before the deadline	Compliance with amended Tokyo Metropolitan ordinances (Prepared a report for FY 2016 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	○	Formulation of FY 2016 implementation plan based on company-wide Environmental Discussion	Formulation of FY 2017 implementation plan based on company-wide Environmental Discussion
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 36 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 2015 environmental education policy and outline	○	Execution of FY 2015 plan by site and department (each site, department educational records, progress table management)	Implementation of FY 2016 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 36 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 2015	○	Continually issuing	Issuance of Environment Report for FY 2016
	Improvement of internal communication	Implementation of company-wide environmental discussion and correction in FY 2015	◎	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 2016
ISO environmental management	Responding to ISO 14001 external auditing	Responding to ISO 14001 external auditing (including our group company, ALSI)	◎	Passing ISO 14001 audit to retain certification (including related company - Advanced Life Sciences Institute)	Passed continual assessment of ISO 14001 (including related company - Advanced Life Sciences Institute)
Internal environmental audit	Reinforcement of internal audit	Implementation of internal audit policy for FY 2015	◎	Completion of audit planning, implementation and review in FY 2015 (ensuring independence by establishing an internal audit office)	Implementation of internal audit policy for FY 2016
Social contribution	Continued issuance of medical science journals	Issuance of the academic journal Medicopia 2015	◎	Issuance of the 56th academic journal Medicopia 2015	Issuance of the academic journal Medicopia 2016
	Holding of educational lecture meetings and symposiums	Successive holding of seminars for FY 2015	◎	Holding of the 35th Medicopia symposium in FY2015	Successive holding of seminars for FY 2016
	Contribution to the blood collection businesses extensively	Continuation of contribution for FY 2015	○	Implementation of contribution items	Continuation of contribution for FY 2016
	Contributing to healthcare in the world	Continuation of cooperation with contribution for FY 2015	◎	Tutoring trainees at Hachioji Facility in 2015	Continuation of cooperation with contribution for FY 2016
	Contribution to the community	Continuation of holding and contribution for FY 2015	◎	Holding of the FY 2015 Summer Festival, cleanup activities, and plan execution at each site	Continuation of holding and contribution for FY 2016

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	2011	2012	2013	2014	2015
Energy use per basic	0.0814	0.0802	0.0803	0.0851	0.0889
Versus previous year		98.5%	100.1%	106.0%	104.5%
Evaluation†		Achieved	Not 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

Specified business operator (total of all workplaces) CO₂ emissions by year

Electric, gas, kerosene	2011	2012	2013	2014	2015
Total CO ₂ (t) emissions	6,831	7,398	8,249	9,471	8,987

Versus
-5.1%

<CO₂ 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 2014	0.000678	0.000591	0.000530	0.000513	0.000522	0.000719	0.000613
FY 2015	0.000683	0.000571	0.000505	0.000497	0.000531	0.000706	0.000584
Versus previous year	101%	97%	95%	97%	102%	98%	95%

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

(II) Tokyo global warming countermeasures compulsory reductions and emissions trading scheme (2-term/5-year): Hachioji office performance

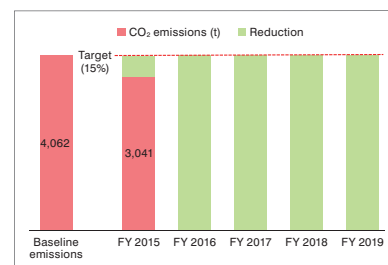
Item	Baseline emissions	2015	2016	2017	2018	2019
CO ₂ emissions (t)	4,062	3,041				
Versus baseline emission amount		25.1%				

Target Facility: Hachioji Office

Baseline emissions: Average emissions from FY 2002 to FY 2004 (using coefficients set in the 2nd planning period)

Compulsory reductions: Reduction of 15% or more versus CO₂ baseline emissions
(5-yr period from 2015 to 2019 average reduction of at least 15%)

Emissions trading scheme: Excess reduction of 2,940 t of CO₂ in 1st planning period.



Nonrenewable Resource Initiatives

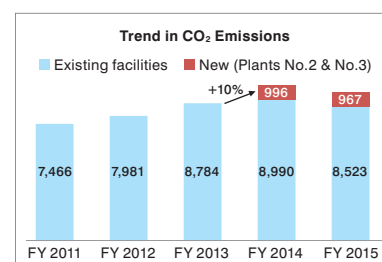
Expanding low-carbon-producing business activities to eliminate waste of energy and resources.

Reduction of CO₂ emission

Fujirebio has been monitoring CO₂ emissions since the Kyoto Protocol*¹ went into effect in 2005. CO₂ emissions gradually decreased until 2010, but have increased dramatically since 2011. This is due to the increasing presence of thermal power generation, which burns fossil fuels and generates massive amounts of CO₂, prompted by the Great East Japan Earthquake of March 2011.

Despite this, Fujirebio has fought against increased CO₂ emissions caused by increases of thermal-generated power and business expansion. We have done this by implementing measures such as improving manufacturing efficiency through production control, improving the fuel efficiency of sales vehicles, and making steady efforts to reduce waste.

*1: Kyoto Protocol of the United Nations Framework Convention on Climate Change

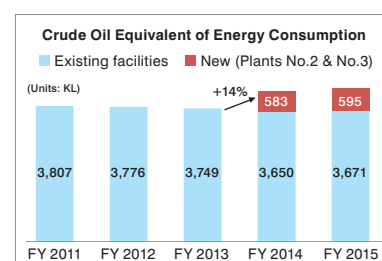


CO ₂ Emission Coefficient (x10 ⁻³)	Hokkaido Electric Power Co.*	Tohoku Electric Power Company Co.	Tokyo Electric Power Co.*	Chubu Electric Power Co.	Kansai Electric Power Co.	Chugoku Electric Power Co.*	Kyushu Electric Power Co.
2011	353	429	375	474	311	728	385
2015	683	571	505	497	531	706	584
	193%	133%	135%	105%	171%	97%	152%

*: The power company servicing the plant location

Efforts to reduce amounts of energy used

In 2010, when the Energy Conservation Act was amended, Fujirebio set numerical targets and began implementing activities to reduce energy use. Of particular note, our Hachioji site, which responsible for key production, was classified as a "Type-2 designated energy management factory" under the Amended Energy Conservation Act and a "large scale establishment" under the Tokyo Metropolitan Ordinance on Environmental Preservation. Accordingly, we strictly manage the operation of its manufacturing facilities and are encouraged to systematically install energy-saving equipment.



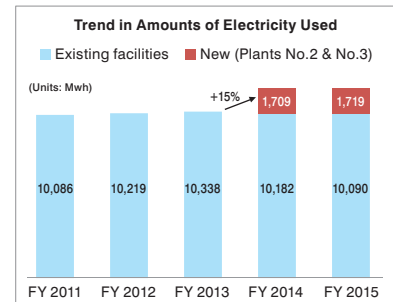
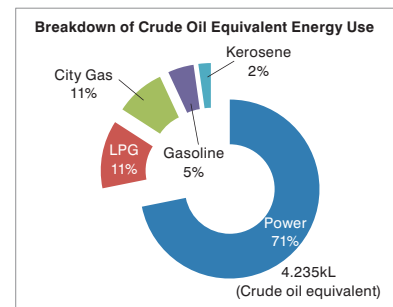
As a result of company-wide efforts, we have been able to reduce energy usage despite the relocation and increase in floor area of the Obihiro office in FY 2011, as well as business expansion (e.g. increase in offices) when we relocated our head office in FY 2012.

Although the total amount of energy use increased by 14% due to the acquisition of a subsidiary company in 2014 (through which we acquired Plant No.2 and Plant No.3, two manufacturing facilities that use large amounts of energy), we successfully curbed emissions to just a slight increase in the following year.

In FY 2016, we will continue to focus efforts on reducing energy use throughout the company, and work towards achieving the mandatory energy reduction of 1% or more (per basic unit)

Comparison of energy sources

Electricity accounts for the largest portion of energy used with a ratio of 71%. 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

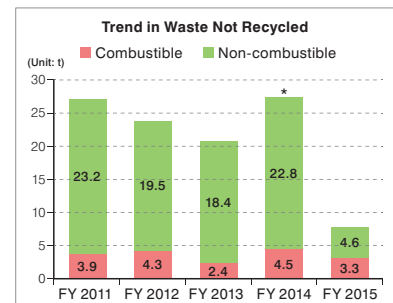
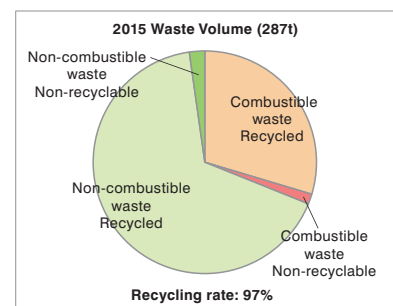
Taking into account our ongoing business expansion, we have been relatively successful in limiting energy consumption increases. Nevertheless, the addition of two plants in FY 2014 led to an approximate 15% increase in consumption.

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 a 100% recycling rate of combustible waste at our Hachioji office. Next in 2010, we achieved 100% recycling of non-combustible waste at our Ube Plant and Head Office (former Hamacho head office). Through continued promotion of recycling efforts we reached a recycling rate of 97% by the year 2015 (6% up compared with the previous year).

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. By FY 2015, however, we were able to dramatically reduce waste due in part to changing our waste disposal contractor.

We intend to continue improving our recycle rate with the goal of zero emissions*2 while also directing efforts towards reducing emissions company-wide.



*: A large amount of waste was generated due to decommissioning the Hamacho office

Name of substances		Total handled (kg)	Release			Transfer		Consumption	Removal and disposal
			Air	Water	Land	Wastes	Sewerage		
1	Acetone	2,701.0	129.4	0.0	0.0	2,571.6	0.0	0.0	0.0
2	Ethyl acetate	223.0	0.0	0.0	0.0	223.0	0.0	0.0	0.0
3	Formaldehyde	151.0	5.4	0.0	0.0	145.5	0.0	0.0	0.0
4	Sodium azide	118.4	0.0	6.8	0.0	0.0	29.5	82.1	0.0
5	Acetonitrile	100.5	0.0	0.0	0.0	100.5	0.0	0.0	0.0
6	Methyl ethyl ketone	81.0	63.0	0.0	0.0	18.0	0.0	0.0	0.0
7	Hydrochloric acid	79.7	0.0	0.0	0.0	4.4	17.3	58.1	0.0
8	Methanol	44.3	0.0	0.0	0.0	44.3	0.0	0.0	0.0
9	2-aminoethanol	33.7	0.0	33.6	0.0	0.1	0.0	0.0	0.0
10	N, N-dimethylformamide	26.2	0.0	0.0	0.0	25.6	0.1	0.6	0.0

Environmental and Social Initiatives

Forest conservation activities

As part of the post-disaster recovery efforts in Tohoku, Fujirebio has started interacting with Tome City's JForest Association after purchasing J-VER credits issued for forests belonging to Tome City in Miyagi Prefecture. Miraca Group's Tohoku branch is located in Miyagi Prefecture, and its employees and their families participated in planting Yamazakura cherry tree saplings and acorns in plantation forests where they will grow for the next 10 to 20 years to help create an environment where people and forests can coexist. Since 2015, we have been promoting local interaction and public awareness through Miraca backed reforestation as a step towards the goal of building a sustainable society.



Planting seedlings



Miraca Group tree planting activities



Miraca commemorative post

Before the tree planting activities, we also took part in local events to build a sense of community with locals. "Eco-products 2016" introduces the role of forests in CO₂ absorption and importance of reforestation as they relate to practical cases of J-VER credit application.



Participation in a local harvest event



Learning about the role of reforestation



Eco-products 2016 introduces activities around Miyagi Prefecture

Eco-Driving activities

Since 2014, we have entered a foundation-sponsored Eco-Driving Competition in the general-vehicle category as a way to reduce environmental impact by promoting eco-driving habits with our company vehicles. To date, we have been merited repeated recognition with an Award of Excellence in 2014, Certification of Outstanding Activities in 2015, and yet another Award of Excellence in 2016. Improved fuel economy also leads to cost control as well as safe driving.



Recognition



Foundation for promoting personal mobility and Ecological Transportation booth

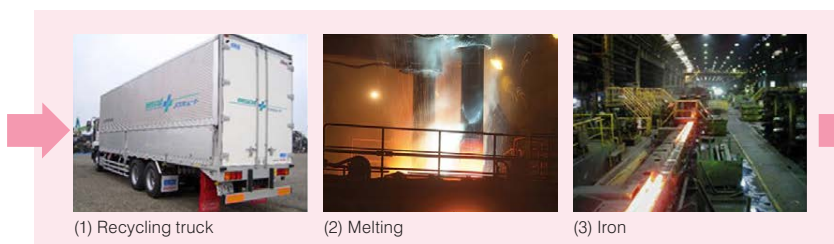
	FY 2010	FY 2013	FY 2014	FY 2015
Gasoline usage (L)	264,971	230,264	220,519	215,348
Total avg. fuel consumption (km/L)	14.3	15.9	16.5	17.0
CO ₂ emissions (T-CO ₂)	114.2	99.3	95.1	92.8
Cedar tree (absorption number)	8,158	7,089	6,789	6,630



Initiatives Aimed at Building a Recycling-oriented Society

Product life cycle

As part of the product lifecycle, one of our flagship clinical testing products, Lumipulse, is striving to help build a recycling-oriented society at every stage of the process from manufacturing to use, recycling and disposal (recycling and landfill).



When Lumipulse equipment is disposed, it is melted down in electric furnace at several thousand degrees, after which it is used as a recyclable resource in iron and steel or as roadbed material.



(4) Steel



(5) Roadbed material

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

A summer festival is held every year in August at the Hachioji office to promote good relations and interaction with the community



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



Medicopia subscription-based magazine

Sagamihara Plant

The first floor of the SRL Sagamihara Laboratory in Sagamihara, Kanagawa Prefecture was renovated to house the Sagamihara Plant which manufactures Fujirebio's CL products. Construction work completed at the end of February 2015. Since then, we have completed registration as an in vitro diagnosis pharmaceutical manufacturer, acquired both domestic QMS standards conformance certification and ISO 13485 certification, and began shipping products from March 2016. The relocation of production facilities from the Hachioji Plant was completed in September 2016 and full-scale manufacturing of CL products is already underway.

The renovation provided an opportunity to incorporate a number of energy saving ideas. We took advantage of this opportunity to install, for example, LED lighting, steam recycling, heat-exchange ventilation equipment in offices and conference rooms, and centralized light management switches.

The Sagamihara Plant carries out everything from preparation of chemical solutions, to product filling, packaging and quality testing. Manufactured products are handed over from the Hachioji Plant, and matters such as legal regulations and activities related to chemical compounds and manufacturing equipment are essentially modeled after those in the Hachioji Plant. Including partner companies, there are more than 50 staff members at this location. Environmental activities were implemented in April 2016. An internal environmental assessment was conducted in August that year, and an ISO 14001 reassessment was conducted in September. Full scale activities at the site, based on set targets, are scheduled to begin in the next fiscal year.



Inside the plant's clean room



Facility exterior

Site relocation announcement

Relocation of the Advanced Life Science Institute (subsidiary)

On October 1, 2016, Fujirebio's subsidiary, the Advanced Life Science Institute, relocated from Wako, Saitama Prefecture to the premises of the Hachioji Plant. Coordinating operations in conjunction with the relocation made it possible to reduce floor space by 1/4 from 1,785 m² to 430 m².



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. Below is an introduction to some of our overseas offices.

Fujirebio Diagnostics, Inc.(FDI)

FDI, based in the US, focuses primarily on the field of malignant tumors, for which it develops and produces products, and provides raw materials. FDI has acquired and maintains ISO 14001 certification, and their business operations are developed under its 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)

Fujirebio Europe N.V. (FRE)

FRE, based in Europe, focuses primarily on the fields of infectious disease and Alzheimer's, for which the company excels at developing, producing, and selling various products. FRE acquired 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: <https://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.

Over the past year we have pursued two major themes: (1) committing efforts to environmental aspects related to business, and (2) strengthening cooperative bonds between Fujirebio and SLR.

The first theme, environmental efforts, has been a major theme at Fujirebio for the past three years. In the first two years, our priority was to better understand the objectives and issues surrounding environmental efforts. During this time, much of our activity was limited to featuring environmental issues as the theme in our yearly Environmental Discussion. From this fiscal year, we will continue to make even more meaningful progress. We have taken on the challenge of not merely talking about environmental efforts, but rather integrating them into our day-to-day activities. We have established numerical targets, an action plan, and are continuing to press forward until we realize tangible results. Although we are still at the midway point of our journey, we are determined to intensify our efforts — which we began even before ISO 14001:2015 — and firmly establish environmental practices in all we do.

For the past two years we have also focused on strengthening cooperative bonds with SRL, another key company in the Miraca Group, and this coordination also includes environmental activities as part of Miraca Group's CSR activities. Although our business formats differ — one being in manufacturing and the other in the service industry — we have found innovative ways to interweave our day-to-day environmental activities around the common points of embodying the unique traits of Miraca. As a result, we have realized a number of meaningful collaborations that have included eco-driving activities, Scope 3 emission compliance, and interactive 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
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