



Environmental Data Book 2015

ROHM Co., Ltd.

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○Period covered by this Report

Fiscal year 2015: April 1, 2014 to March 31, 2015

○Scope of this Report

This Report covers environmental conservation activities implemented by ROHM Head Office, ROHM Yokohama Technology Center, and 16 ROHM Group Affiliates: 8 domestic affiliates including 3 LAPIS Semiconductor Group companies and 8 overseas affiliates.

RMT that shut down due to the 2011 Thailand floods is not included in the data aggregation for the period of fiscal 2011 to fiscal 2014.

YTC and LAPIS Semiconductor Co., Ltd. have become subject to this Report since fiscal 2014.

AGLED, SciCrystal, and Kionix are not included in the data aggregation at present, but it is being considered to include these companies in the data aggregation in the future.

○Abbreviated names for the Overseas Affiliates

For the purposes of this Report, the names of the Overseas Affiliates are abbreviated as follows:

YTC:	ROHM Yokohama Technology Center	(Japan)
REPI:	ROHM Electronics Philippines, Inc.	(Philippines)
RIST:	ROHM Integrated Systems (Thailand) Co.,Ltd.	(Thailand)
RSC:	ROHM Semiconductor (China) Co.,Ltd.	(China)
REDA:	ROHM Electronics Dalian Co.,Ltd.	(China)
RWEM:	ROHM-Wako Electronics (Malaysia) Sdn.Bhd.	(Malaysia)
RMPI:	ROHM Mechatech Philippines, Inc.	(Philippines)
RMT:	ROHM Mechatech (Thailand) Co.,Ltd.	(Thailand)

Environmental Policy

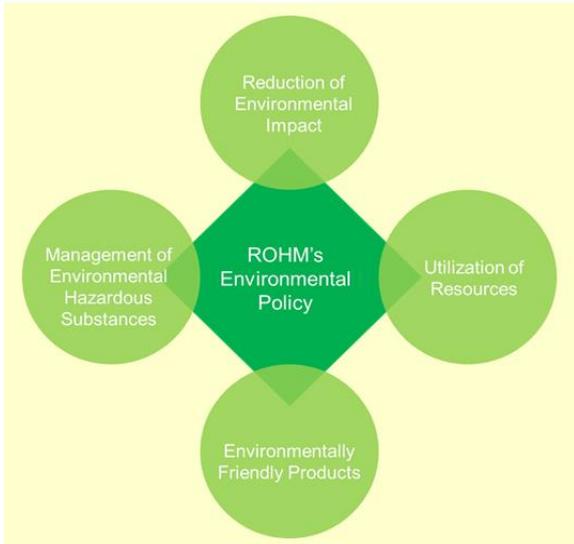
ROHM's Environmental Policy

ROHM's everlasting conscientiousness to preserve the global environment contributes to the healthy existence of humanity and to the continued prosperity of the company.

1. Conserve energy by initiating innovative methods in all corporate activities.
2. Develop environmentally-conscious products that minimize the environmental burden by employing responsible processes throughout the life cycle of each product.
3. Give priority to the procurement of materials and products that have the least levels of adverse impact on the environment.
4. Comply with international and national environmental laws and regional agreements.
5. Endeavor to train employees and encourage our constituents to actively care for their surroundings and the global environment.
6. Develop positive relationships with the community through contributions to the local environment and the proper disclosure of environmental data.

ROHM established an Environmental Policy applicable to the entire ROHM Group on October 20, 1997 pursuant to the provisions in the International Environmental Standards ISO 14001. Furthermore, in response to the 2004 revision of ISO 14001, ROHM made a complete revision to the Environmental Policy on April 1, 2006 to provide even more concise, clearer, and more exact descriptions.

ROHM's Approaches toward Global Environmental Conservation



ROHM has been working on a variety of environmental conservation activities centering on the Environmental Policy.

We believe that corporate activities contributing to the environment are to manufacture environmentally friendly products and yet to reduce our own environmental impact in manufacturing them. Particularly for the prevention of global warming, we are active in a range of the reduction of CO₂ and other greenhouse gases emitted from our business operations.

In addition, we will define long-term environmental targets and policy from the perspective of biodiversity, and have approaches to realize sustainable society.

Environmental Objectives

○Response to Legal Requirements

We shall certainly comply with environmental laws and requirements relating to all business activities and voluntarily promote to reduce the environmental impacts.

○Objectives and Targets of Voluntary Activities

1. CO₂ countermeasures in each site

[Policy] Work to stop global warming through overall energy conservation and the reduction of global greenhouse gas emission.

[Objectives] (1) Reduce CO₂ emission by 25% in FY2020 from the actual results of FY2005.

(2) Reduce CO₂ emission (per production unit) by 50% in FY2020 from the actual results of FY1990.

(3) Reduce global greenhouse gas emission (PFC's SF6, etc) by 50% in FY2020 from the actual results of FY1995.

2. CO₂ countermeasures through value chain

[Policy] The scientific techniques and various kinds of calculation tools including LCA are utilized, and CO₂ reduction activities are promoted.

Development of the environmentally-conscious products in alignment with 'NEXT50' is led, and it contributes to the CO₂ reduction at the time of use.

[Objectives] (1) Reduce CO₂ emission through the value chain by 10% in FY2020 from the actual results of FY2010.

(2) Increase the ratio of environmentally-conscious products that account for in sales profits to 100% by FY2020.

3. Reduction of environmental impact

[Policy] Reduce the amount of materials discharged to the air and water, and strive to preserve the Global environment.

[Objectives] (1) Reduce the amount of handling volume of PRTR substances (per production unit) by 10% in FY2020 from the actual results of FY2010.

(2) Reduce VOC emission by 40% by FY2020 from the actual results of FY2000.

4. Effective use of resources

[Policy] Strive for the effective use of valuable resources and the protection of water resources that are fundamental to environmental biodiversity.

[Objectives] (1) Maintain zero emission in domestic group consolidated and reduce waste generation(per production unit) by 40% by FY2020 from the actual results of FY2000.

(2) Reduce waste generation(per production unit) in overseas group consolidated by 60% by FY2020 from the actual results of FY2000.

(3) Reduce water input volume by 10% in FY2020 from the actual results of FY2009.

(4) Increase the usage ratio of the eco-reel (reduced, compact reel)

Outline of ROHM's Environmental Conservation Activities

Targets and Results based on Environmental Policy

The ROHM Group defines targets and approaches based on the environmental policy and objectives to formulate an action plan each year toward the accomplishments of the targets and approaches and promote positive activities.

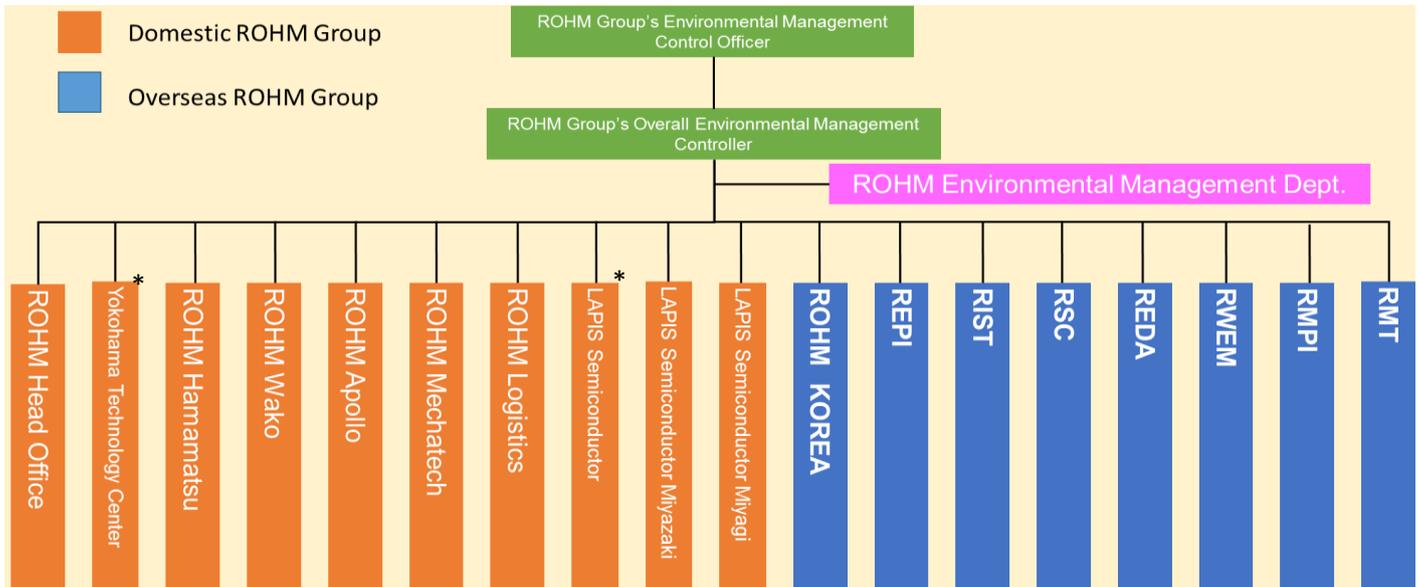
[Targets and Results in Fiscal Year 2014]

Targets in Fiscal Year 2014	Results in Fiscal Year 2014	Evaluation
[CO₂ reduction measures at bases]		
<ul style="list-style-type: none"> ① Reduce CO₂ emissions by 1% from the predicted value based on the 2014 production volume. ② Reduce CO₂ emissions per unit by 1% from the 2013 level ③ Reduce greenhouse gas (i.e. PFCs, SF₆) emissions by 1% from the predicted value based on the 2014 production volume 	<ul style="list-style-type: none"> ① CO₂ emissions were reduced by 1.5% from the predicted value based on the 2014 production volume ② CO₂ emissions per unit production were reduced by 6.0% from the 2013 level ③ Greenhouse gas (i.e. PFCs, SF₆) emissions were reduced by 1.2% from the predicted value based on the 2014 production volume 	☆☆☆
[CO₂ reduction measures through value chains]		
<ul style="list-style-type: none"> ① Formulate a model to calculate greenhouse gas emissions based on the GHG Protocol Scope 3, and disclose the emissions. ② Increase the ratio of eco-friendly products that comprise sales profits to 60% 	<ul style="list-style-type: none"> ① Calculate and disclose the greenhouse gas emissions based on the GHG Protocol Scope 3, 6 Category. ② Increased the ratio of eco-friendly products that comprise sales profits to 62.9% 	☆☆☆
[Reduction of environmental impact]		
<ul style="list-style-type: none"> ① Maintain the 2013 results of PRTR substances handled per unit. ② Reduce VOC emissions by 1% from the value predicted based on the 2014 production volume. 	<ul style="list-style-type: none"> ① Reduced the PRTR substances handled per unit by 6.5% from the 2013 level ② Decreased VOC emissions by 16.2% from value predicted based on the 2014 production volume 	☆☆☆
[Effective utilization of resources]		
<ul style="list-style-type: none"> ① Maintain zero emissions at domestic consolidation and the 2013 results of waste volume (per unit production) handled per unit. ② Maintain the 2013 results of the volume of consolidated waste overseas (per unit production) . ③ Reduce water consumption by 1% from the value predicted based on the 2014 production volume. ④ Raise the proportion of use of Eco reels (volume- and weight-reduced reels) to that for packaging reels to 40% by the end of 2014. 	<ul style="list-style-type: none"> ① Zero emissions were maintained at all domestic companies Waste emissions per unit was reduced by 8.7% from the 2013 level ② Waste emissions per unit at overseas companies was reduced by 6.3% from the 2013 level ③ Water consumption was reduced by 6.5% from the the value predicted based on the 2014 production volume ④ Raised the proportion of use of Eco reels (volume- and weight-reduced reels) to that for packaging reels to 36.7% 	☆☆

Outline of ROHM's Environmental Conservation

Environmental Management System

ROHM Group's Environmental Management Promotion System

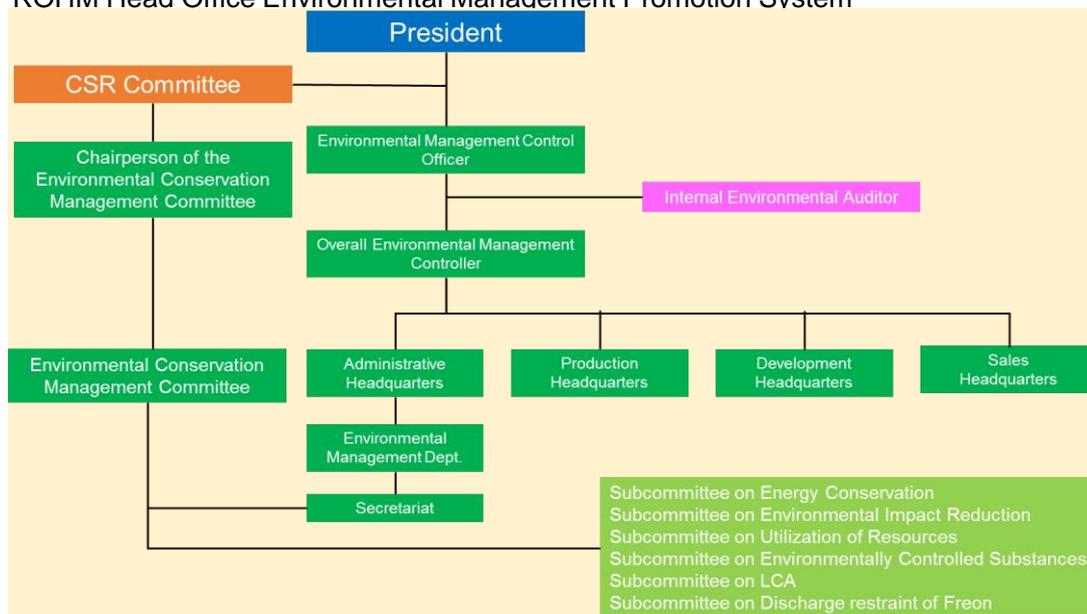


ROHM has deployed across the ROHM Group an environmental management system designed to be shared among the Group on the basis of the International Environmental Standard ISO 14001 and all employees have been working on continual environment improvements.

To promote environmental activity more, YTC and LAPIS Semiconductor Co., Ltd. acquired the ISO14001 certification in FY2014.

Furthermore, the ROHM Group has been implementing constant environmental activities from a global

ROHM Head Office Environmental Management Promotion System



ROHM started the environmental management promotion system in its Head Office in 1990 mainly to conduct pollution prevention activities, and rebuilt it afterward to a promotion system taking environmental conservation with a view to the global environment as a principle behind its activities. In this rebuilt promotion system, the "Environmental Conservation Measures Committee" that deliberates significant policies and measures relating to the environmental activities, and six Subcommittees that comprise the Committee are playing an important role in the promotion system. The Subcommittees are composed of experts in the relevant field, engineers, and related national qualification holders, and the chairpersons of the Subcommittee serve as members of the Environmental Conservation Measures Committee. The Management Committee and Subcommittees meetings are held on a monthly basis.

Highlights of Environmental Impact

Domestic Bases

INPUT

Raw materials

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Metal (1,000t)	0.6	0.3	0.3	
Plastics (1,000t)	0.3	0.2	0.3	
Chemicals (1,000t)	13	16	18	
Paper (1,000t)	0.4	0.2	0.5	
Others (1,000t)	0.4	0.5	0.4	

Energy

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Electricity (1,000kWh)	841	756	769	
Gas (1,000m ³)	5,372	4,925	4,486	
Oil (1,000kl)	10	9	11	
Water (1,000m ³)	6,493	5,929	5,841	

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Gasoline (1,000kl)	173	172	175	

Procurement

Manufacturing

Transportation

OUTPUT

Products

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Products (t)	439	355	408	

Waste

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Amount of waste discharged (t)	8,459	6,540	6,810	
Amount of waste disposed of as landfill (t)	0	1	1	

Emissions into atmosphere

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
CO ₂ (1,000t)	355	321	329	
PFC (1000t-CO ₂)	98	90	106	
NOx (t)	89	92	99	
SOx (t)	52	64	71	
Chemical substances (t)	50	52	54	

Emissions into waters

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
BOD (t)	86	78	85	
COD (t)	22	18	24	
Chemical substances (t)	85	93	83	
Amount of effluent (1,000m ³)	4076	3979	4002	

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
CO ₂ (t)	455	452	458	

Overseas Bases

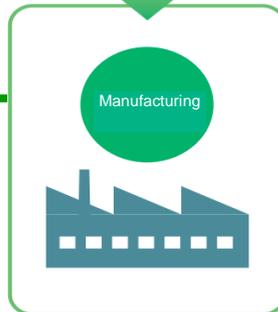
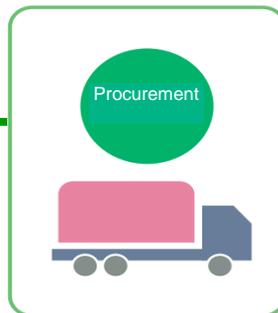
INPUT

Raw materials

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Metal (1,000t)		2.8	3.5	3.9
Plastics (1,000t)		2.9	4.1	4.3
Chemicals (1,000t)		2.3	2.8	2.9
Paper (1,000t)		1.5	2.5	2.6
Others (1,000t)		0.4	0.7	0.7

Energy

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Electricity (1,000kWh)		568	591	609
Gas (1,000m ³)		161	104	142
Oil (1,000kl)		7	5	6
Water (1,000m ³)		3,534	3,604	3,818



OUTPUT

Products

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Products (t)		9,127	9,504	9,837

Waste

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
Amount of waste discharged (t)		5,349	5,300	5,296
Amount of waste disposed of as landfill (t)		623	624	573

Emissions into atmosphere

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
CO ₂ (1,000t)		232	237	244
NOx (t)		2	1	4
SOx (t)		0	0	9
Chemical substances (t)		16	15	15

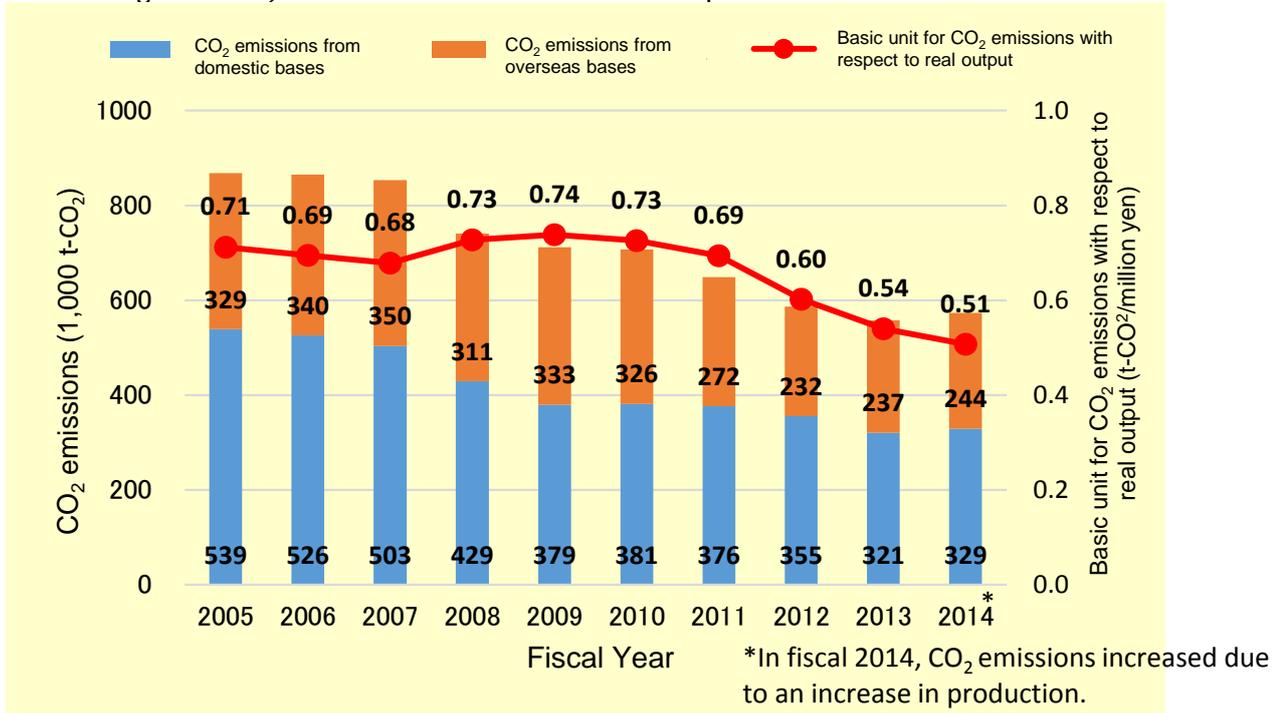
Emissions into waters

Item	Amount of environmental load	Amount of environmental load		
		FY2012	FY2013	FY2014
BOD (t)		12	26	16
COD (t)		45	81	56
Chemical substances (t)		1	1	1
Amount of effluent (1,000m ³)		1,064	1,033	1,440

Changes in Emissions of Environmentally Hazardous Substances

Changes in CO₂ Emissions

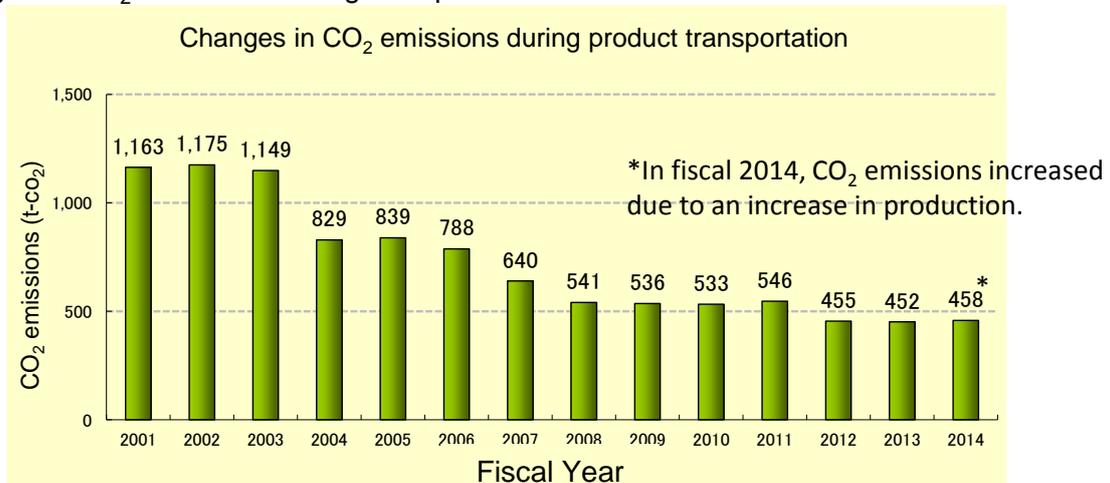
■ Changes in CO₂ emissions from the ROHM Group



ROHM has been pushing ahead with and boosting the shift of downstream process overseas due to the globalization of production bases. This resulted in the reduction of CO₂ emissions from domestic bases by 34% in fiscal year 2014 compared to fiscal year 2005.

Furthermore, the basic unit for CO₂ emissions with respect to real output reduced by 56% in fiscal year 2014 compared to fiscal year 1995.

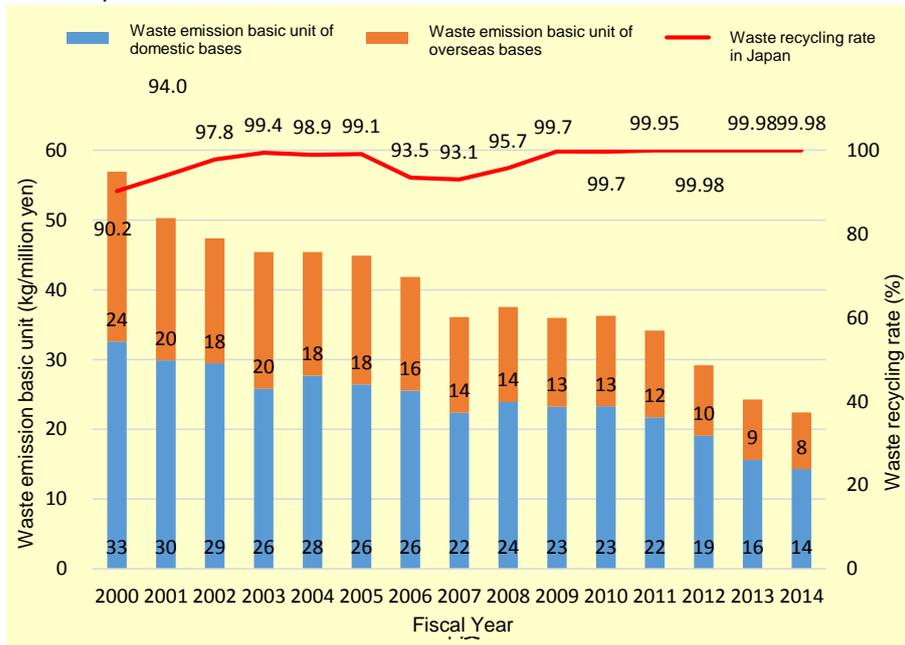
■ Changes in CO₂ emissions during transportation



Amid growing social concerns about environmental impact reduction in the logistics field, ROHM has been working on the reduction of CO₂ emissions caused by fuel consumption through transportation by road since fiscal year 2004 with measures taken for the transportation of products from production bases, including improvement in loading efficiency and the optimization of delivery frequency by the use of cross-docking. ROHM continued to integrate transport operations and focused on approaches to the reduction of CO₂ emissions, thus achieving the reduction by 14% in fiscal year 2014 compared to fiscal year 2010.

Changes in Emissions of Waste and PFC Gases

Waste emission basic unit (domestic and overseas bases) and recycling rate (domestic bases) of the ROHM Group



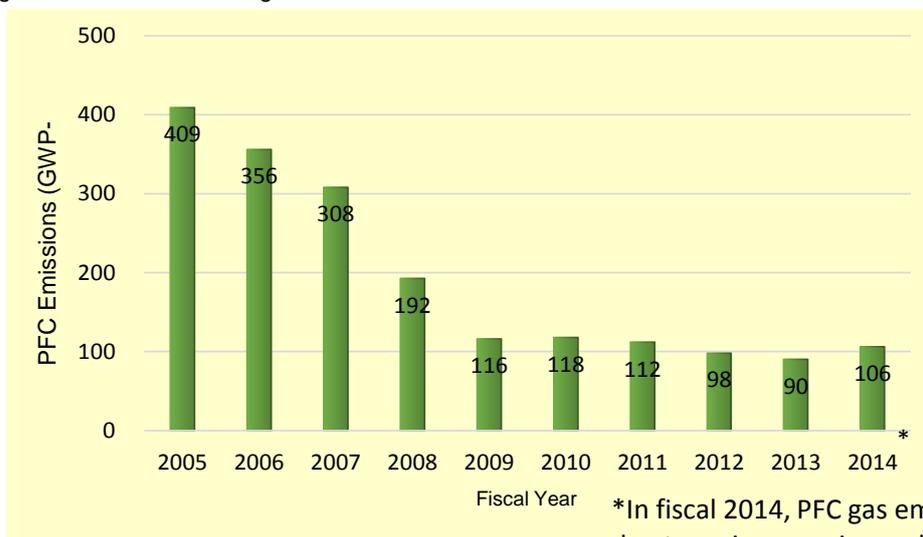
Regarding measures to reduce the volume of waste, ROHM Group companies optimize the amount of incoming and secondary materials and strive to increase yield as well as thoroughly separate unneeded materials generated to obtain valuable resources.

In addition, the ROHM Group has defined a waste recycling rate of at least 99% as 'zero emissions.' And after reaching this target at all domestic companies in fiscal year 2009, the group continues to strive towards a true 100% recycling rate (99.98% in fiscal year 2014).

Changes in PFC Gas

What is PFC gas (Perfluorocarbon gas)?

PFC gas is a material essential for fine processing of semiconductors, especially ICs. This PFC gas will turn to a greenhouse gas that produces greenhouse effect 6,500 times as high as CO₂ when it is released into the atmosphere. The semiconductor industry has determined a target for reduction in the PFC gas emissions and promoted the installation of PFC gas treatment systems used to dissolve PFC gases and eliminate the greenhouse effect.

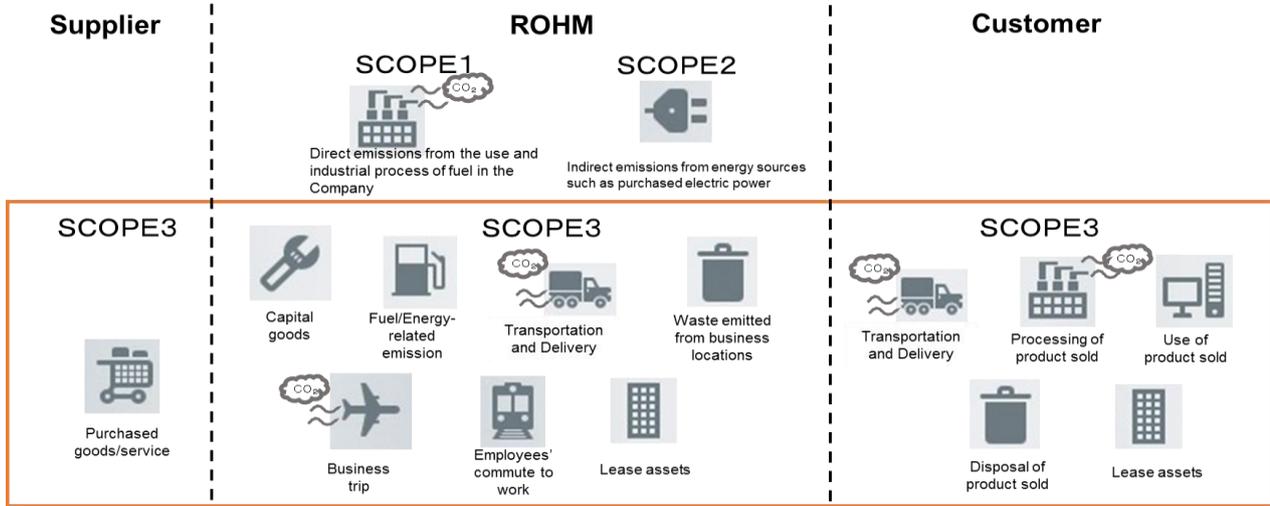


The ROHM Group promoted the installation of PFC gas treatment systems and reduced PFC gas emissions by 64% in fiscal year 2014 compared to fiscal year 1995.

Outline of ROHM's Environmental Conservation Activities

CO₂ Emissions under the Scope3 Standard

Domestic and Overseas Bases



CO₂ emissions from the ROHM Group's business operations in fiscal 2014

Category of Scope Protocol			CO ₂ Emissions (t-CO ₂)	Outline of Calculation	Verification	
SCOPE1 (Direct emissions)			52,580	Direct emissions from facilities in the Company's own business locations	○	
SCOPE2 (Indirect emissions from energy sources)			520,899	Emissions associated with the production of energy purchased by the Company's business locations	○	
SCOPE3 (Emissions from any sources other than Scope1 and Scope2, such as Company's supply chains)	Classification	Category	CO ₂ Emissions (t-CO ₂)	Outline of Calculation		
	Upstream	1	Purchased product/service	383,398	Emissions associated with the manufacturing of purchased product (including material and part)	
	Upstream	2	Capital goods			
	Upstream	3	Fuel- and energy-related activities not included in Scope1 and Scope 2	0	Emissions associated with the procurement of fuel and energy used in the Company's business locations	
	Upstream	4	Transportation and Delivery (Upstream)	35,168	Emissions associated with the distribution of sold product from the Plant → Logistics base → Consumer	○
	Upstream	5	Waste emitted from business operations	353	Emissions associated with the transportation and treatment of waste generated in the Company's business locations	
	Upstream	6	Business trip	1,918	Emissions associated with the business trips of employees	
	Upstream	7	Employers' commute to work	656	Emissions associated with the movement of employees when they commute to the Company to work.	
	Upstream	8	Lease assets (Upstream)	-	Not covered	
	Downstream	9	Transportation and Delivery (Downstream)			
	Downstream	10	Processing of product sold			
	Downstream	11	Use of product sold			
	Downstream	12	Disposal of product sold			
	Downstream	13	Lease assets (Downstream)	-	Not covered	
	Downstream	14	Franchising	-	Not covered	
Downstream	15	Investment				

Independent Verification of Environmental Data

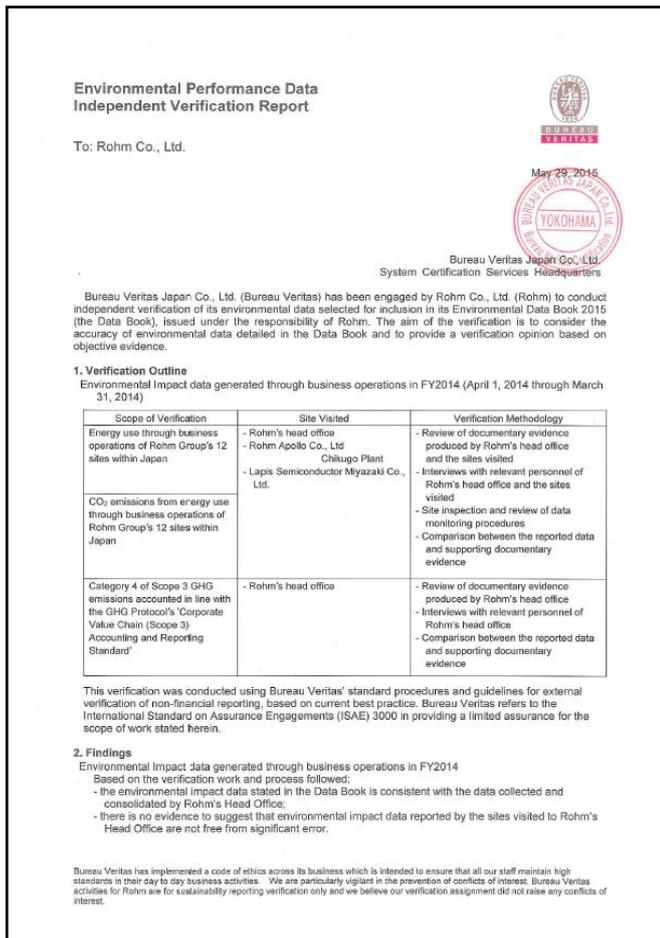
The ROHM Group received an independent verification of its environmental impact data by Bureau Veritas Japan Co., Ltd. in order to disclose information to society with higher transparency and reliability.

[Scope of Verification]

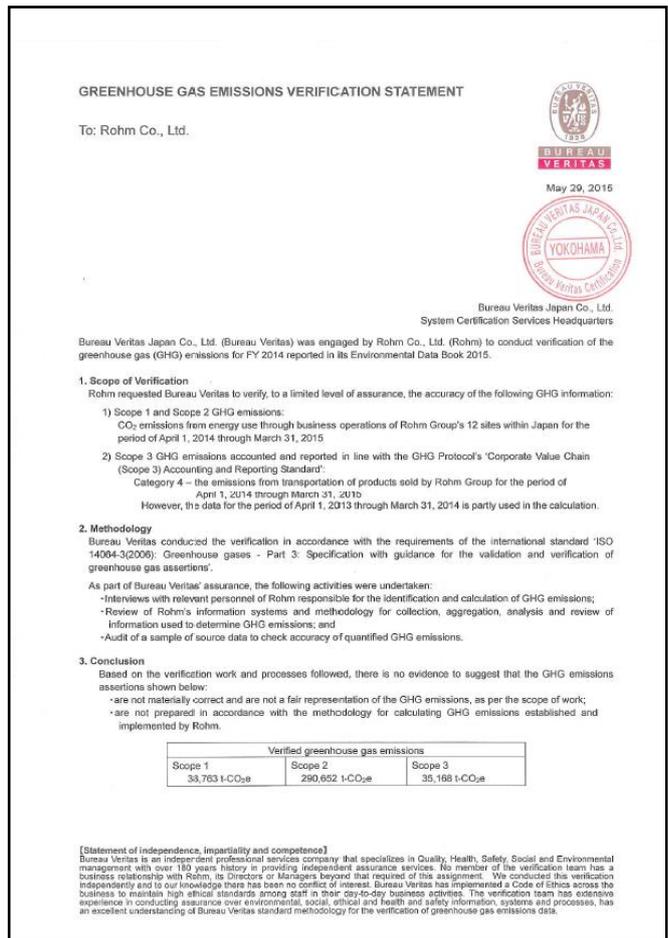
Scope 1 and 2 12 domestic sites

Scope 3, Category 4: Upstream Transportation and Distribution:

Product transportation between 8 domestic manufacturing sites, 1 domestic logistics center, 6 overseas plants , and 10 overseas sales companies and domestic and overseas customers



Environmental Performance Data
Independent Verification Report



Greenhouse Gas Emissions
Verification Report

[Comment of Verifier]

Through the verification of the states of tabulating data in the 12 domestic sites and Head Office, It was confirmed that the mechanism of reporting to Head Office numerical values calculated according to the procedure functioned with certainty in all the foregoing sites and tabulated data with high reliability through automatic calculations.

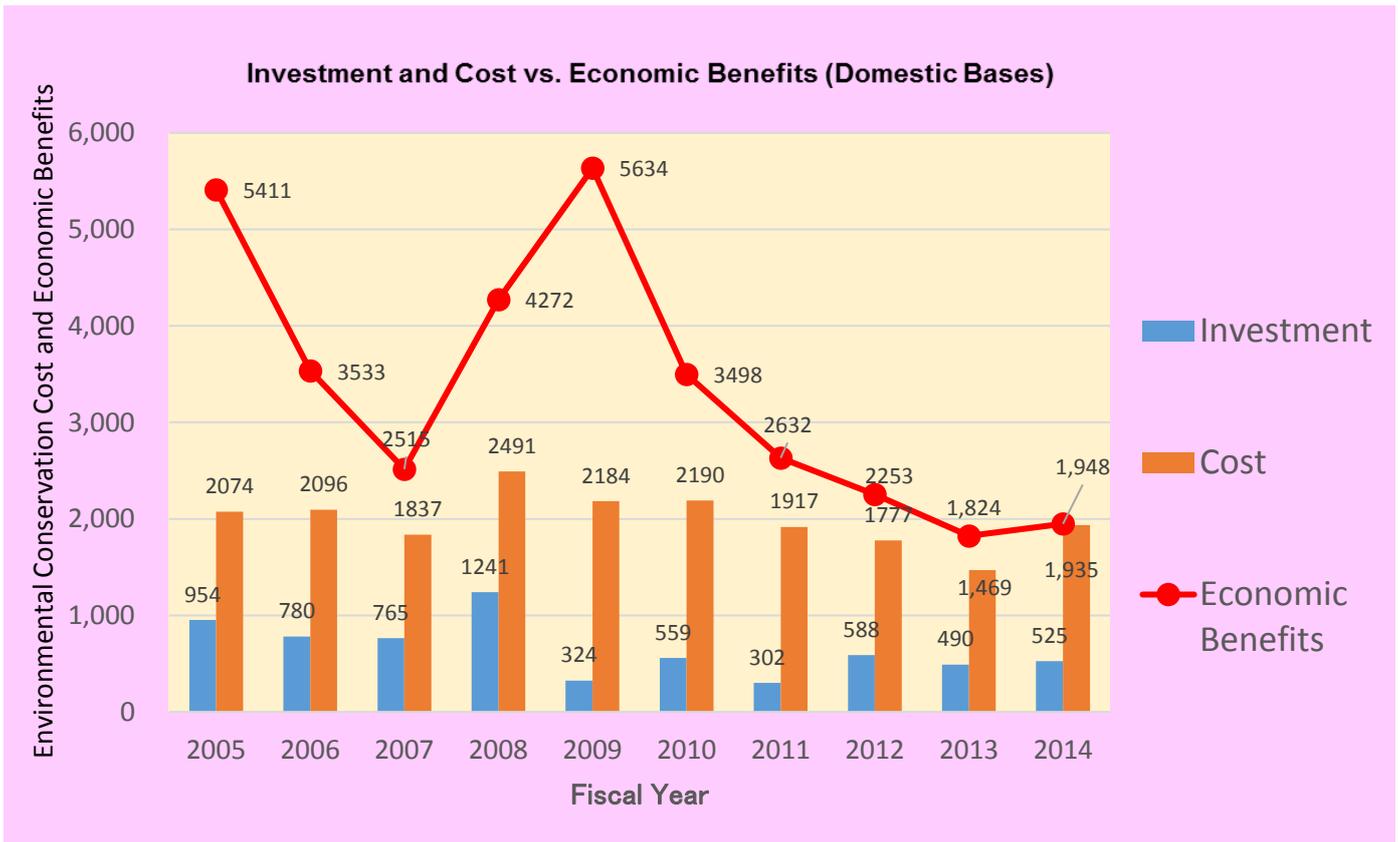
The effect of these activities is expected to spread throughout the entire ROHM Group.

Environmental Accounting

Domestic Bases

(Unit: Millions of yen)

Category of cost under the Guidelines	FY2012			FY2013			FY2014		
	Investment	Cost	Economic Benefits	Investment	Cost	Economic Benefits	Investment	Cost	Economic Benefits
Pollution prevention cost	290	883	-	69	841	-	135	1,074	-
Global environmental conservation cost	253	141	764	361	118	758	374	225	926
Resource recycling cost	1	382	1,490	11	251	1,065	1	324	1,023
Administration cost	44	368	-	49	255	-	14	309	-
Social activity cost	0	3	-	0	4	-	0	4	-
Environmental remediation cost	0	0	-	0	0	-	0	0	-
Others	0	0	-	0	0	-	0	0	-
Total	588	1,777	2,253	490	1,469	1,824	525	1,935	1,948

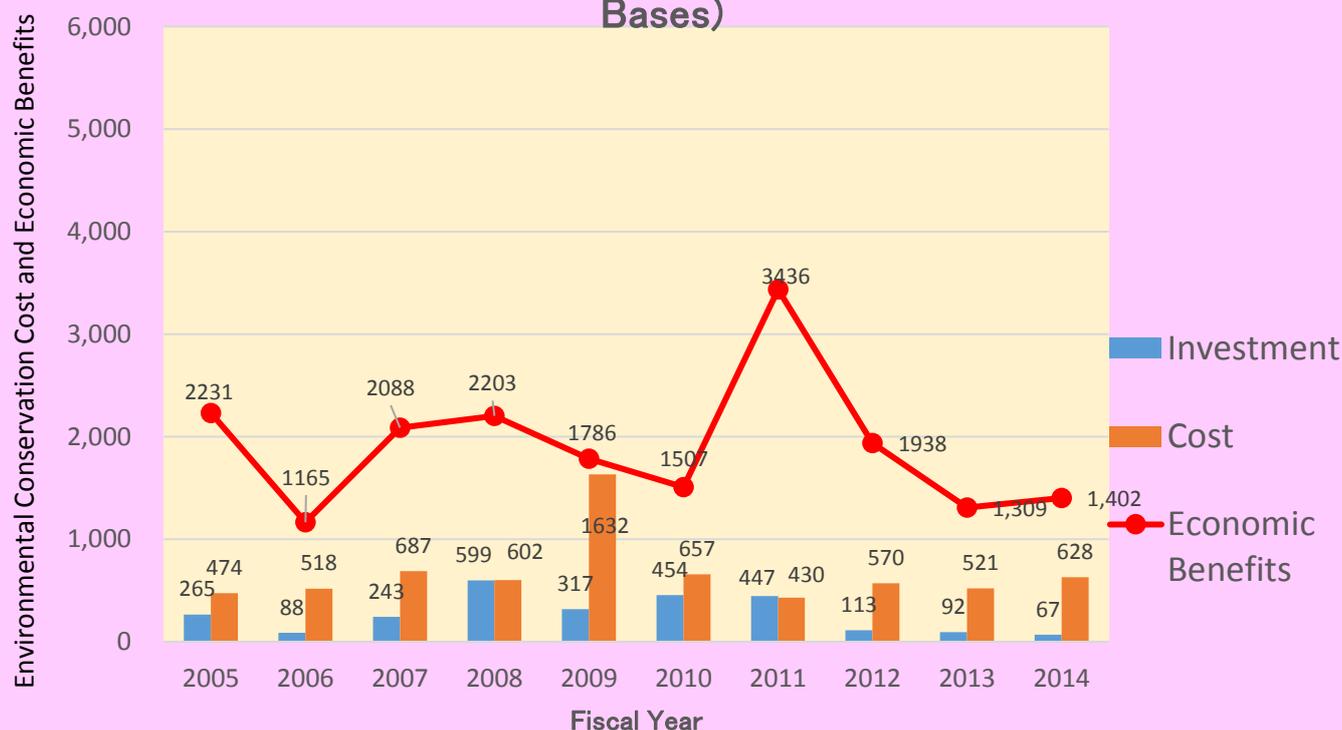


Overseas Bases

(Unit: Millions of yen)

Category of cost under the Guidelines	FY2012			FY2013			FY2014		
	Investment	Cost	Economic Benefits	Investment	Cost	Economic Benefits	Investment	Cost	Economic Benefits
Pollution prevention cost	3	384	-	12	350	-	3	424	-
Global environmental conservation cost	79	43	1,325	55	43	491	38	39	338
Resource recycling cost	30	74	613	23	65	818	23	89	1,064
Administration cost	1	55	-	1	48	-	3	58	-
Social activity cost	0	0	-	0	1	-	0	2	-
Environmental remediation cost	0	0	-	0	0	-	0	0	-
Others	0	13	-	0	14	-	0	16	-
Total	113	570	1,938	92	521	1,309	67	628	1,402

Investment and Cost vs. Economic Benefits (Overseas Bases)



Environment Report

Approaches to Environmentally Friendly Products and Environment

Social contribution through products

Donating LED bulbs for the Kyoto Lantern Festival

All of the lights used in the paper-covered lanterns and signpost lanterns at the Kyoto Lantern Festival were LED lamps donated by ROHM. Amid the demand for increased power savings throughout the country, issues were raised about holding the festival due to energy conservation and eco-friendliness.

However, the use of ROHM's high-efficiency LED lights, the amount of power consumed by the lanterns was cut to roughly 1/6th. Twice a year, in March and December, ROHM's LED lights brighten the Kyoto night.



December / Kyoto Arashiyama Lantern Festival (in front of)



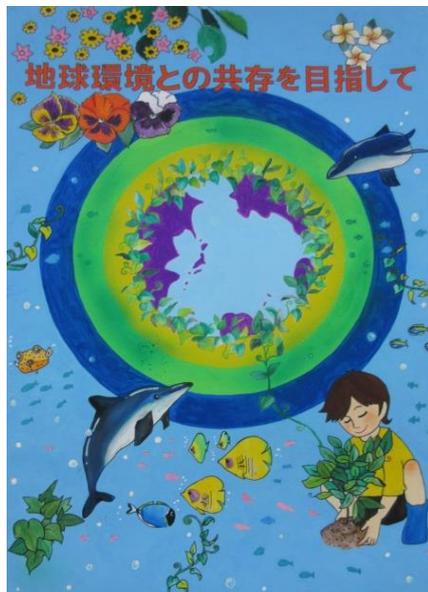
March / Kyoto Higashiyama Lantern Festival (Sanneizaka)

Environment-related Posters Contest during Environment Month

The ROHM Group Companies take June each year in which the World Environment Day is set as the Environment Month to encourage the submission of environment-related posters and slogans and hold the contest of them during the period. The number of entries increases each year and that of posters and slogans that seriously take the global environment increases as well.



Grand Prix



Award for Excellence



Award for Excellence

Approaches to Environmental Communications

Approaches in “Environmental Conservation”



ROHM Apollo
Nagaihama Beach



ROHM Logistics
Amakusa Park



LAPIS
Semiconductor



REDA
Tuchengzi Reforestation in
Dalijia



RWEM
Cleanup campaign in flooded area



REPI
Release of juvenile fish
into Laguna Lake

Approaches in “Environmental Education”

ROHM Group’s “Environmental Education at Elementary Schools”

The ROHM Group visits neighboring elementary schools to provide environmental education for the students. In the schools, we gave the students classes with themes like creating circuits by combining ROHM's various eco components, thinking together about what they can do to save power and enhancing their environmental awareness.



環境表彰

ROHM received a commendation for reduction of Greenhouse gas emissions from Kyoto City



State of the award ceremony

On December 19, 2014, ROHM received a commendation as a company that actively worked on and achieved outstanding results in greenhouse gas emissions reduction activities during the period of 2011 to 2013. ROHM will continue to strive for environmental impact reduction and also work on environmental conservation activities throughout the ROHM Group.

RIST received the Certification of Level 3 Green System from the Ministry of Industry of



State of the award ceremony

On July 16, 2014, RIST received "The Green Industry Certification: Level 3 Green System" from the Ministry of Industry of Thailand for continual environmental improvements and environmentally friendly business operation. RIST will conduct further activities aiming to receive the Certification: Level 4 Green Culture in this fiscal year.

RSC received the Environmental Excellence Company Award



State of the award ceremony

On June 5, 2014, RSC received the "Environmental Excellence Company Award" in Tianjin Economic-Technological Development Area, China.

The Environmental Excellence Company Award is given to companies that achieved excellent activities for environmental impact reduction. RSC won this Award for three consecutive years.

RSC has been working on the replacement of ferric chloride that is a chemical substance subjected to the PRTR system. RSC will conduct further activities in fiscal 2015 aiming to complete the replacement.

Site Reports (Domestic and Overseas Bases)

ROHM Co., Ltd. 21 Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan



		2012	2013	2014
Power consumption	kWh	86,937,000	77,167,000	78,805,000
Fuel consumption	kl	1,419	1,012	1,091
Water consumption	1,000 m ³	784	750	607
Total waste emissions	t	502	394	456
Amount of waste finally disposed of as landfill	t	0.04	0.00	0.00
Waste recycling rate	%	99.99	100.00	100.00
Emissions into the atmosphere: NOx	t	1.5	1.1	3.3
Emissions into waters: BOD	t	6.1	5.0	2.1

■Manufacturing items:
Electronic parts, including
semiconductors

■PRTR

Unit: tons

PRTR		2012	2013	2014					
Ordinance number	Substances covered	Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
374	Hydrogen fluoride and its water-soluble salts	14.4	13.0	13.913	0.424	13.489	-	-	-

ROHM Yokohama Technology Center 2-4-8 Shin Yokohama, Kohoku-ku, Yokohama 222-8575 Japan



*Included in data aggregation from fiscal 2014

		2012	2013	2014
Power consumption	kWh	-	-	3,006,803
Fuel consumption	kl	-	-	68
Water consumption	1,000 m ³	-	-	16
Total waste emissions	t	-	-	19
Amount of waste finally disposed of as landfill	t	-	-	0.00
Waste recycling rate	%	-	-	100.00
Emissions into the atmosphere: NOx	t	-	-	0.1
Emissions into waters: BOD	t	-	-	0.0

ROHM Hamamatsu Co., Ltd. 10 Sanwa-cho, Minami-ku, Hamamatsu



		2012	2013	2014
Power consumption	kWh	147,650,000	148,573,000	151,413,000
Fuel consumption	kl	3,492	4,021	3,341
Water consumption	1,000 m ³	1,096	1,215	1,189
Total waste emissions	t	984	894	699
Amount of waste finally disposed of as landfill	t	0.2	0.0	0.1
Waste recycling rate	%	99.98	99.99	99.98
Emissions into the atmosphere: NOx	t	5.2	5.7	5.1
Emissions into waters: BOD	t	60	53	48

■Manufacturing items:
ICs and LEDs

■PRTR

Unit: tons

PRTR		2012	2013	2014					
Ordinance number	Substances covered	Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
374	Hydrogen fluoride and its water-soluble salts	45.6	49.2	56.2	-	4.4	-	51.7	-

ROHM Wako Co., Ltd. 100 Tomioka, Kasaoka, Okayama



■Manufacturing items:
ICs, diodes, and semiconductor
lasers

		2012	2013	2014
Power consumption	kWh	91,022,400	91,778,200	95,663,000
Fuel consumption	kl	639	637	663
Water consumption	1,000 m ³	583	589	590
Total waste emissions	t	1,247	1,270	1,392
Amount of waste finally disposed of as landfill	t	0.3	0.3	0.4
Waste recycling rate	%	99.98	99.98	99.97
Emissions into the atmosphere: NOx	t	2.0	1.4	1.8
SOx	t	1.3	0.5	0.7
Emissions into waters: BOD	t	4.3	6.6	10.2

■PRTR

Unit: tons

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
53	Ethylbenzene	6.0	5.7	6.7	4.5	-	-	-	2.2
58	Ethylene glycol monomethyl ether	3.3	3.6	4.2	-	-	-	-	4.2
80	Xylene	18.7	19.7	22.5	2.1	-	-	-	20.4
82	Silver and its water-soluble salts	1.8	1.8	2.1	-	-	0.6	-	1.5
302	Naphthalene	10.3	10.1	11.8	0.1	-	-	-	11.7
343	Pyrocatechol	1.2	1.1	1.3	-	-	-	-	1.3
374	Hydrogen fluoride and its water-soluble salts	32.7	32	36.8	0.1	2	-	34.7	0
438	Methyl naphthalene	20.3	20	21.8	0.1	-	6.1	-	15.6

ROHM Apollo Co., Ltd. Hirokawa Chukaku Industrial Estate, Hirokawa-cho, Yame-gun, Fukuoka



■Manufacturing items:
ICs, transistors, diodes, SiC,
power modules, lighting, etc.

		2012	2013	2014
Power consumption	kWh	148,042,000	145,925,000	148,330,586
Fuel consumption	kl	2,128	2,173	2,192
Water consumption	1,000 m ³	1,217	1,253	1,267
Total waste emissions	t	1,623	1,342	1,334
Amount of waste finally disposed of as landfill	t	0.3	0.2	0.3
Waste recycling rate	%	99.98	99.99	99.98
Emissions into the atmosphere: NOx	t	4.0	3.3	4.7
SOx	t	3.8	3.7	6.5
Emissions into waters: BOD	t	10	10	21
COD	t	1.6	4.3	10.2

■PRTR

Unit: tons

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
53	Ethylbenzene	2.1	3.6	3.7	-	-	-	-	3.6
64	Silver	1.2	-	-	-	-	-	-	-
80	Xylene	1.7	2.8	3.0	0.9	-	-	-	2.1
341	Piperazine	-	1.2	1.4	1.4	-	-	-	-
374	Hydrogen fluoride and its water-soluble salts	25.9	26.0	28.6	1.1	2.4	-	25.0	-
412	Manganese and its compounds	1.2	-	-	-	-	-	-	-
438	Methyl naphthalene	21.0	21.9	22.4	0.1	-	22.3	-	-

ROHM Mechatech Co., Ltd. 3-6-1 Tsuchida, Ooi-cho, Kameyama, Kyoto



		2012	2013	2014
Power consumption	kWh	3,482,000	2,888,848	2,772,000
Water consumption	1,000 m ³	2	3	3
Total waste emissions	t	32	18	15
Amount of waste finally disposed of as landfill	t	0.0	0.0	0.0
Waste recycling rate	%	100.00	100.00	100.00
Emissions into waters: BOD	t	0.0	0.0	0.0
COD	t	0.0	0.0	0.0

■Manufacturing items:
Molds and dies, and lead frames

LAPIS Semiconductor Co., Ltd. 2-4-8 Shin Yokohama, Kohoku-ku, Yokohama 222-8575 Japan



*Included in data aggregation from fiscal 2014

		2012	2013	2014
Power consumption	kWh	-	-	3,691,259
Fuel consumption	kl	-	-	70
Water consumption	1,000 m ³	-	-	16
Total waste emissions	t	-	-	8
Amount of waste finally disposed of as landfill	t	-	-	0.20
Waste recycling rate	%	-	-	97.49
Emissions into the atmosphere: NOx	t	-	-	0.0
Emissions into waters: BOD	t	-	-	0.0

LAPIS Semiconductor Miyagi Co., Ltd. 1 Okinohiradaira, Oohira Mura, Kurokawa-gun, Miyagi



		2012	2013	2014
Power consumption	kWh	120,586,390	114,200,400	114,748,400
Fuel consumption	kl	3,534	3,525	3,334
Water consumption	1,000 m ³	1,421	1,234	1,230
Total waste emissions	t	1,144	1,113	1,191
Amount of waste finally disposed of as landfill	t	0.5	0.4	0.3
Waste recycling rate	%	99.96	99.96	99.97
Emissions into the atmosphere: NOx	t	12	9	10
SOx	t	5	6	6
Emissions into waters: BOD	t	1.8	2.0	2.0
COD	t	19.2	12.4	12.0

■Manufacturing items: ICs

■PRTR

Unit: tons

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
278	Triethylenetetramine	1.5	1.1	1.6	0.3	1.3	-	-	-
374	Hydrogen fluoride and its water-soluble salts	46.5	41.5	39.6	0.2	-	-	39.4	-
438	Methyl naphthalene	39.9	39.7	37.5	0.2	-	-	37.3	-

LAPIS Semiconductor Miyazaki Co., Ltd. 727 Kihara, Kiyotake-cho, Miyazaki city, Miyazaki Pref.



■Manufacturing items:
ICs, diodes, transistors, and SiC

		2012	2013	2014
Power consumption	kWh	168,147,914	174,093,000	169,303,000
Fuel consumption	kl	2,756	2,925	4,909
Water consumption	1,000 m ³	835	882	922
Total waste emissions	t	1,527	1,492	1,683
Amount of waste finally disposed of as landfill	t	0.0	0.0	0.0
Waste recycling rate	%	100.00	100.00	100.00
Emissions into the atmosphere: NOx	t	63	72	73
SOx	t	42	55	58
Emissions into waters: BOD	t	1.3	1.6	2.3
COD	t	1.4	1.5	1.8

■PRTR

Unit: tons

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
20	2-aminoethanol	5.6	6.5	6.6	1.2	5.4	-	-	-
50	Ethylene glycol monoethyl ether	-	1.2	2.4	0.4	1.9	-	-	-
80	Xylene	1.8	1.1	1.2	0.2	0.9	-	-	-
374	Hydrogen fluoride and its water-soluble salts	21.2	22.9	26.5	0.1	1.7	-	24.7	-
438	Methyl naphthalene	74.8	65.9	58.0	0.3	-	-	57.7	-

ROHM Logistec Co., Ltd. 75 Masusaka, Kamogata-cho, Asakuchi, Okayama



■Business line:
Logistics management of the ROHM Group's products

		2012	2013	2014
Power consumption	kWh	1,040,688	1,203,000	1,234,389
Fuel consumption	kl	92	61	0
Water consumption	1,000 m ³	4	4	3
Total waste emissions	t	16	15	15
Amount of waste finally disposed of as landfill	t	0.01	0.03	0.03
Waste recycling rate	%	99.93	99.79	99.78
Emissions into the atmosphere: NOx	t	0.1	0.1	0.0
SOx	t	0.1	0.0	0.0
Emissions into waters: BOD	t	0.0	0.0	0.0



		2012	2013	2014
Power consumption	kWh	35,906,000	37,446,843	38,476,627
Fuel consumption	kl	59	57	50
Water consumption	1,000 m ³	103	102	111
Total waste emissions	t	463	443	463
Amount of waste finally disposed of as landfill	t	0.4	0.1	0.2
Waste recycling rate	%	99.91	99.98	99.95
Emissions into waters: BOD	t	0.2	0.5	0.2
COD	t	0.37	0.6	0.3

■Manufacturing items:
ICs, transistors, and diodes

■PRTR

Unit: tons

PRTR		2012	2013	2014					
Ordinance number	Substances covered	Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
31	Antimony and its compounds	6.5	6.5	6.3	-	-	2.1	-	4.2



		2012	2013	2014
Power consumption	kWh	188,036,000	197,134,000	203,490,116
Fuel consumption	kl	420	348	* 812
Water consumption	1,000 m ³	1,122	1,146	1,237
Total waste emissions	t	1,152	1,145	952
Amount of waste finally disposed of as landfill	t	0.0	0.0	0.0
Waste recycling rate	%	100.00	100.00	100.00
Emissions into the atmosphere: NOx	t	0	0.0	* 3.4
SOx	t	0	0.1	* 9.0
Emissions into waters: BOD	t	0.3	0.3	0.6
COD	t	1.3	0.6	3.6

■Manufacturing items:
ICs, transistors, and resistors

*Operated generation of electricity facilities by an administrative request, largely increased.

■PRTR

Unit: tons

PRTR		2012	2013	2014					
Ordinance number	Substances covered	Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
31	Antimony and its compounds	6.4	6.7	6.7	-	-	1.8	-	4.9
57	Ethylene glycol	1.0	0.9	0.8	-	-	-	-	0.8
82	Silver and its water-soluble compounds	7.6	8.6	7.8	-	-	7.0	-	0.8
308	Nickel	11.4	14.2	14.4	-	-	14.2	-	0.1
309	Nickel compounds	3.5	4.1	4.4	-	-	3.6	-	0.9



		2012	2013	2014
Power consumption	kWh	133,073,000	144,620,000	166,050,000
Fuel consumption	kl	126	130	147
Water consumption	1,000 m ³	942	1,118	1,132
Total waste emissions	t	987	1,051	1,114
Amount of waste finally disposed of as landfill	t	0.0	0.0	0.0
Waste recycling rate	%	100.00	100.00	100.00
Emissions into waters: BOD	t	3.9	6.1	5.8
COD	t	16	27	23

■Manufacturing items:
ICs, transistors, diodes, and resistors

■PRTR

Unit: tons

PRTR		2012	2013	2014					
Ordinance number	Substances covered	Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
31	Antimony and its compounds	4.2	6.0	6.7	-	-	0.4	-	6.3
82	Silver and its water-soluble compounds	2.9	3.8	4.2	-	-	2.4	-	1.9
308	Nickel	8.9	11.7	12.5	-	-	8.5	-	4.0
309	Nickel compounds	3.5	4.4	4.5	-	-	2.8	-	1.7

ROHM Semiconductor (China) Co., Ltd.

No. 7 Weisan Road, Micro-electronics Industrial park, Jingang Highway
Xicing District, Tianjin 300385 China



		2012	2013	2014
Power consumption	kWh	74,232,000	79,420,000	75,372,000
Water consumption	1,000 m ³	482	365	346
Total waste emissions	t	689	730	712
Amount of waste finally disposed of as landfill	t	515	512	493
Waste recycling rate	%	25.20	29.77	30.79
Emissions into waters: BOD	t	4.3	5.5	7.0
COD	t	14	15	18

■PRTR

Unit: tons

■Manufacturing items:
Diodes, LEDs, lasers, LED displays,
and sensors

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
31	Antimony and its compounds	1.5	1.3	1.2	-	0.2	1.0	-	-
37	Bisphenol A	33.5	29.8	24.7	-	3.7	21.0	-	-
71	Ferric chloride	43.3	41.8	45.6	-	-	45.6	-	-
82	Silver and its water-soluble compounds	1.8	1.6	1.5	-	-	1.4	-	0.2
265	Methyltetrahydrophthalic anhydride	1.2	-	-	-	-	-	-	-
291	Tris (2, 3-epoxypropyl)	12.1	12.6	13.6	-	-	13.6	-	-
305	Lead and its compounds	3.8	4.3	4.5	-	2.7	1.8	-	-

ROHM Electronics Dalian Co., Ltd.

No. 20 Four Street East & North, Dalian Economic & Technical Development Zone,
Dalian 116600 China



		2012	2013	2014
Power consumption	kWh	59,974,718	59,011,346	58,958,848
Fuel consumption	kl	4,014	3,417	2,967
Water consumption	1,000 m ³	554	519	491
Total waste emissions	t	222	237	245
Amount of waste finally disposed of as landfill	t	32	32	31
Waste recycling rate	%	85.71	86.37	87.39
Emissions into waters: BOD	t	1.4	1.1	0.9
COD	t	10	4	7

■PRTR

Unit: tons

■Manufacturing items:
Power modules, thermal print heads,
contact image sensor heads, photo
link modules, lighting, optical sensors
and LED displays

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
71	Ferric chloride	3.4	-	-	-	-	-	-	-
82	Silver and its water-soluble compounds	1.7	2.0	2.2	0.2	0.1	1.9	0	0

ROHM-Wako Electronics (Malaysia) Sdn. Bhd.

Lo1 1320 Kawasan Penindustrian, Peogkalan Chepa II,
Padang Tmenbak, 16100 Kota Bharu, Kelantan, Malaysia



		2012	2013	2014
Power consumption	kWh	65,767,000	62,898,000	59,563,125
Fuel consumption	kl	18	20	18
Water consumption	1,000 m ³	355	383	444
Total waste emissions	t	1,068	1,025	950
Amount of waste finally disposed of as landfill	t	76	80	49
Waste recycling rate	%	92.88	92.15	94.81
Emissions into waters: BOD	t	1.0	1.0	1.1
COD	t	2.5	2.7	4.4

■PRTR

Unit: tons

■Manufacturing items:
Diodes and LEDs

PRTR Ordinance number	Substances covered	2012	2013	2014					
		Amount handled	Amount handled	Amount handled	Amount emitted	Amount transferred	Amount consumed	Amount eliminated	Amount recycled
20	2-aminoethanol	1.6	1.3	1.6	-	-	1.6	-	-
71	Ferric chloride	19.7	13.7	19.7	-	-	19.7	-	-
304 & 305	Lead and its compounds	6.0	7.0	6.0	-	-	6.0	-	-



■ Manufacturing items:
Molds and dies, and lead frames

		2012	2013	2014
Power consumption	kWh	11,320,390	10,421,412	9,869,608
Fuel consumption	kl	475	* 47	43
Water consumption	1,000 m ³	50	31	31
Total waste emissions	t	768	669	862
Amount of waste finally disposed of as landfill	t	0.0	0.00	0.00
Waste recycling rate	%	100.00	100.00	100.00
Emissions into the atmosphere: NOx	t	1.8	0.5	0.0
SOx	t	0.0	0.1	0.0
Emissions into waters: BOD	t	0.0	0.0	0.0
COD	t	0.0	0.0	0.0

*Substantially reduced due to the change of fuel used in the wastewater treatment facilities for the plating process.