

Panasonic Ecology Systems (Thailand) Co.,Ltd.

Panasonic Group Site Report 2012
FY2012 :April 1, 2011 - March 31, 2012

Address	101 Moo 2 Teparak Rd. T.Bangsaothong,A. Bangsaothong, Samutprakarn 10540 Thailand.		
Lot area	12,872 m ²	Total floor area	10,329 m ²
Establishment day	1996/12	Employees	448 persons
ISO14001 certification date	1998/1	ISO14001 renewed	2011/06
Major Products	The manufacture of electrical fan , ventilating fan , mini sirocco, industrial electrical fan , industrial ventilating fan, industrial air moving equipment and accessories		
Environmental Information disclosure	Communication FY2012	visitors on factory tour	400 persons
Contact	Management System Section	collaboration with municipality	2 items
		TEL:	66 (0) 27233000 ext 4501



Message from Compliance Administrator

The company is located in Samutprakarn province. We performed environmental friendly promotion in site of PTHC(Panasonic Thailand Co.,Ltd) Group. Our products are Electric fan, ventilating fan, mini sirocco, industrial electric fan, industrial ventilating fan, industrial air moving equipment and accessories. Our factory was certified by ISO14001:2004 "Environmental Management System" Since 1998 and OHSAS 18001:2007 " Occupational Health and Safety since August 2008. FY2011, We had been assessed certified as meeting the requirements of ISO 50001:2011 "Energy Management System" to manage an efficiency energy consumption and prevention the environmental degradation. In addition, We raised the employees thru an environmental and energy saving activities.



Compliance Administrators
Mr. Kazuyoshi Kajita
Managing Director

Main activities in FY2012

Target	Result
CO ₂ Emission Plan FY2011 = 1,437 Ton	CO ₂ Emission Result = 1,494 Ton (Data from Apr'11-Mar'12)

Products of Environmentally-conscious information



Ventilating Fan :
Ventilating Fan helps air ventilation by intake & exhaust functions.
Point of environmentally-conscious
Usage of low electricity consumption Motor. Produced at less global environmental effect process. Follow RoHS standards.



Electrical Fan :
Electrical Fan produces wind and creates cool and comfortable living environment.
Point of environmentally-conscious
Energy saving at the top rank (Number. 5) in Thailand (Reference to TIS.)



AME :
Air Moving Equipment (AME) is suitable for ventilation in the large space such as in an office or a factory.
Point of environmentally-conscious
Ventilation in a large space. This Product compliance with RoHS.



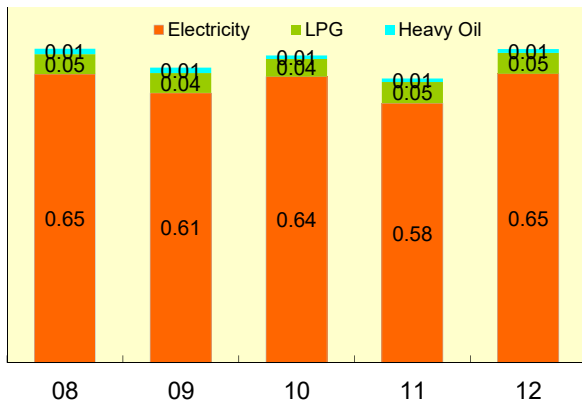
Fine Factory Fan :
Fine Factory Fan helps adjusting temperature in working environment especially in factory, warehouse by intaking fresh air from outside into the building and exhausting hot air out of the building.
Point of environmentally-conscious
This Product compliance with RoHS.

Environmental performance data

Year displayed in graph ex) 2012: April 1, 2011 - March 31, 2012

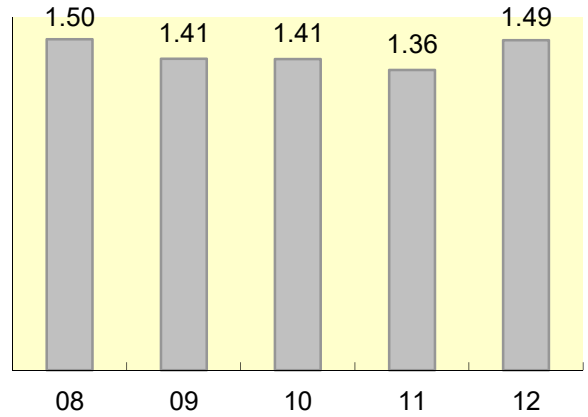
Energy

Unit: 1000kl



CO2 Emission

Unit: 1000t-CO2

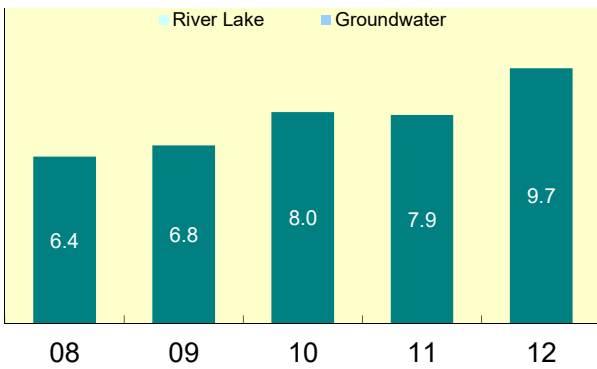


Calculation standards

$$\text{CO2 emission} = (\text{Amount of electric power use in kWh} \times 0.539 \text{ kgCO2/kWh}) + (\text{Amount of town gas use in m3} \times 2.290 \text{ kgCO2/m3})$$

Water

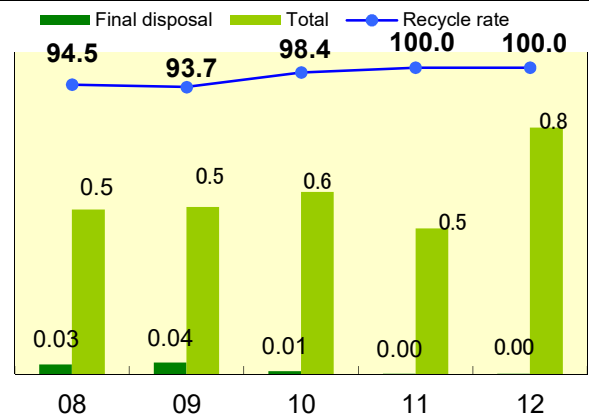
Unit: 1000m³



Circulated water NA m³ Rain-water FY2012 NA m³

Waste

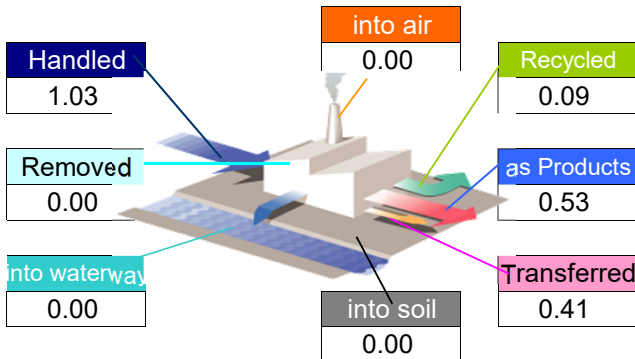
Unit: 1000t, %



Chemical substances

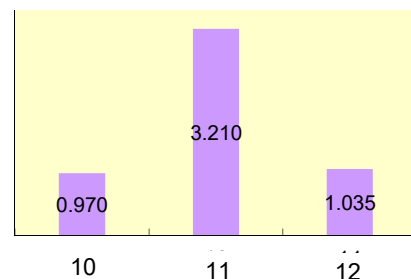
Unit: t

Material balance of controlled substances FY2012



Unit: t

Key target reduction substances



About The Panasonic Group's Chemical Substances Management in Factories

http://panasonic.net/eco/factory/chemical_substance/

About the above data

There are no items to report.

Compliance

FY2012

<Air pollutant measurement results>

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm ³ /h	N/A					
NOx	ppm	N/A					
Particulate	g/Nm ³	Die casting No.1	320.00			1.93	Once a year
		Die casting Burner	320.00			7.33	Once a year

<Water pollutant measurement results>

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	N/A					
BOD	mg/l	N/A					
Nitrogen	mg/l	N/A					
Phosphorus	mg/l	N/A					

<Noise and vibration>

	Unit	Measurement Area		Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
Noise	dB	DT	Motor line	90.00		79.45	80.10	Twice a year
		NT	N/A					
Vibration	dB	DT	N/A					
		NT	N/A					

*Legal limit: The strictest value out of those specified by laws, ordinances or agreements.

*N/A(not applicable):The meaning when the facility is exempted from the regulation.

About excess of legal limit value

There are no items to report.

Improvement of direction by government, or point outs by neighbor

Occurrence situation	Countermeasure
There are no items to report.	

Environmental Policy

- 1) Complying with environmental legal and other requirement which the company subscribes.
- 2) Preventing and controlling water and air pollution from our performances.
- 3) Promoting an energy saving policy and minimizing the resource consumption.
- 4) Minimizing the waste by implementing the waste management program.
- 5) Reviewing the environmental management system in accordance to the condition changes to ensure continual improvement of our environmental performance.
- 6) Communicate to employees at all relevant functions and level including all persons working for or on behalf of the company to understand the environmental policy and performance by providing appropriate training in awareness and competence including bulletin board postings.
- 7) Promoting our environmental policy and activities to the public, advertising in important areas by the distribution of a variety of printed material (board posting, brochures, etc.)

Occupational Health and Safety Policy

- 1) Complying with occupational health and safety legal and other requirement which the company subscribes.
- 2) Make all persons including employees, contractors and other visitors aware the importance of safety and keep safety is the basis of their performance.
- 3) Continually control, improve and protect hazard from our process and activities including health and property by controlling risk to be at the acceptable level
- 4) Supporting resources for implementation occupational health and safety management system to ensure - its continual improvement.
- 5) Promoting safety training and activities for employee's knowledge and awareness.
- 6) Reviewing the occupational health and safety management system in accordance to the condition changes - to ensure continual improvement of occupational health and safety.
- 7) Communicate the occupational health and safety policy for understanding and performance overall company and available to interested parties.

Energy Policy

- 1) The energy conservation had been implemented as part of the company's operation and it is the responsibility of all executives and staffs at all level to cooperate in the maintaining the company's policy and procedure.
- 2) Complying with energy conservation legal and other requirement which the company subscribes.
- 3) To support necessary resource for implementation energy management system including procurement of product, services and design in order to enhance energy saving and continual improvements.
- 4) Control and utilize resources and energy with effectiveness and efficiency.
- 5) Reviewing the energy management system in accordance to the condition changes to ensure that continual improvement of energy management system.
- 6) Communicate the energy policy for understanding and performance overall company and available to public.

Aiming to reduction of environmental impact

On fiscal year 2011. We aim to focus on the CO₂ reduction by voluntary to implement "International Standard of energy management system for improve the energy performance as following.

Befor

Air conditioner Split type(PAC) 160,000 BTU/set
- 8 sets at Assembly production.

Energy per year	732,078.08 kWh/year
Electricity	2,525,669.38 Baht/year
CO2 Emissions	394.59 ton-CO2/year

Lot of Heat inside the Factory

After

Usage : Air Distribution to the No-Wind Area
Results : Solve Still Air Problem from Obstacles Such as Machines.

Air conditioner Split type(PAC) 160,000 BTU/set
- 6 sets and installed Fine Factory Fan 550 W/Set - 8 Sets.

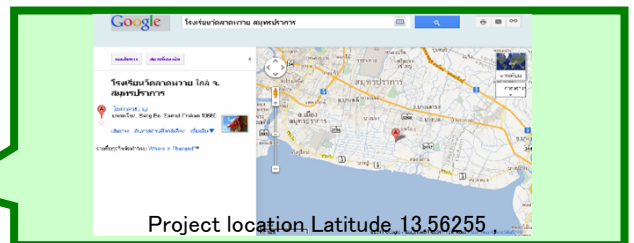
Energy per year	557,647.36 kWh/year
Electricity	1,923,883.39 Baht/year
CO2 Emissions	300.57 ton-CO2/year

Save Energy
- Without Air Conditioner Usage,
Reduce Body Felt Temperature and
Factory Temperature Gap by Air
Velocity.

Environmental Communication



Title : Panasonic Global Eco Learning Program.
PTHC Group (6 companies) conducted the "Panasonic Global Eco Learning Program" to educate primary students with 'eco ideas' program near company. PTHC Group also donated Plasma TV 42" and Water Cooler Tank to Wat Lad Wai School. There are 55 primary students (P. 1 – P. 6) at Wat Lad Wai School, Smuthpakarn province joined this activity. The main activity of the project was divided in two modules. The first module, global warming problem, children have a charge to learn cause and effect of global warming and student have to brainstormed idea thru played game what we can do to stop global warming in their lifestyle . The second module, student learnt waste generation and the importance of waste segregation, students have practical waste segregated by type of waste thru play game.



Title : volunteering to clean and paint both temple and school at Ayuthaya.

Panasonic top managements, employees & families, Panasonic Scholarship students & alumni, municipal's representative, teachers & students around 180 person joined to help recovery flooded area at Lad Sai Temple and Lad Sai School Temple School, Ayuthaya

Emergency preparedness and response

1. Fire evacuation



2. Chemical emergency response.



3. Flood response

