


Panasonic Ecology Systems (Thailand) Co.,Ltd. (PESTH)

Panasonic Group Site Report 2009
FY2009 :April 1, 2008 - March 31, 2009

Address	101 Moo2 Teparak Road,T.Bangsaothong,A.Bangsaothong ,Samutprakarn 10540				
Lot area	12870m ²	Total floor area	12870m ²		
Establishment day	1996/12	Employees	368persons		
ISO14001certification date	1998/9	ISO14001renewed	2008/6		
Major Products	E-Fan (Unit :1,000) ,V/F,Ind VF ,Ind EF (Unit :1,000) , Mini sirocco (Unit :1,000) . .AME (Unit :1,000) . Air Filter (Unit :1,000) . Environmental CommunicationFY2009				
Information disclosure	0items	visitors on factory tour	200persons		collaboration with municipality
Contact	Management System Section			TEL:	02-723-3000 ext 4530

Message from Compliance Administrator

Company is located in Samutprakarn province. We perform 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, accessory and air filter . This factory was certified by ISO14001:2004 "environmental management system" in 1998, and we have implemented "energy saving", "resource saving & recycling", "prevention of pollution" systems. In addition, we keep on promoting all-employees participation activities on everyday environment friendly awareness.



Compliance Administrators

Mr.Yamada Yutaka.

Main activities in FY2009

Target	Result
CO ₂ Emission Plan FY' 09 = 1,409 Ton-CO ₂	CO ₂ Emission Result =1,407 Ton-CO ₂ (Data from Apr,08-Mar,09)

Products of Environmentally-conscious information

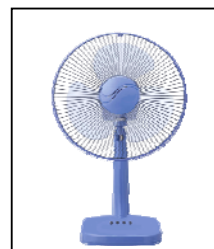


Ventilating Fan :

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)



AME :

Air Moving Equipment(AME)is suitable for the ventilation in large space such as in an office or a factory.

Point of environmentally-conscious

Ventilation in a large space.This Product compliance with RoHS.

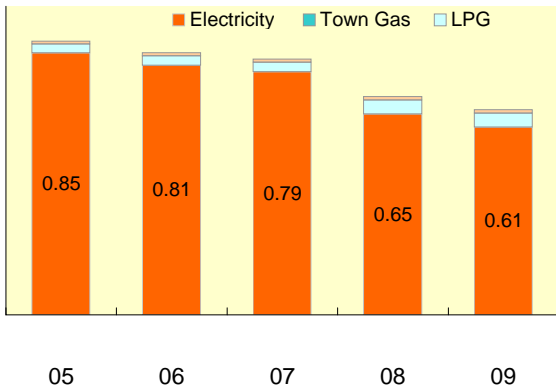
<http://pesth.panasonic.co.th/eng/Default.aspx>

Environmental performance data

Year displayed in graph ex) 2009: April 1, 2008 - March 31, 2009

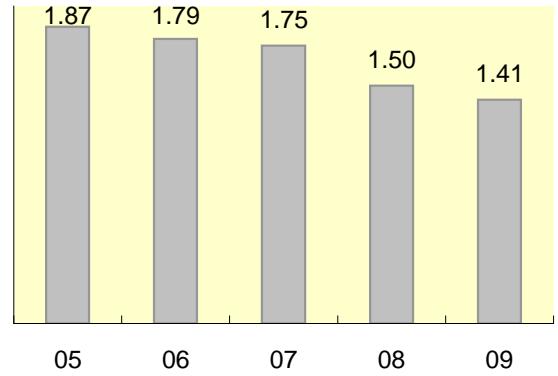
Energy

Unit: 1000kl



CO2 Emission

Unit: 1000t-CO2

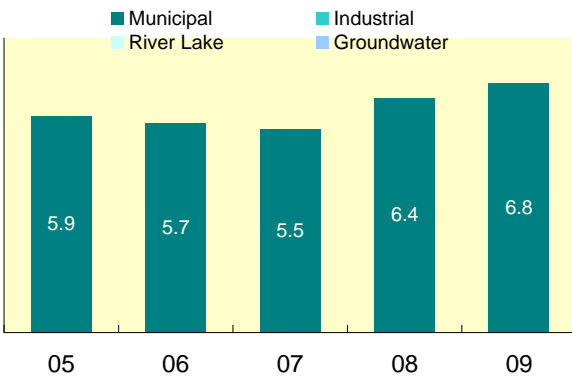


Calculation standards

Conversion coefficients : Electricity=0.257, LPG=1.295 ,Fuel Oil=1.009

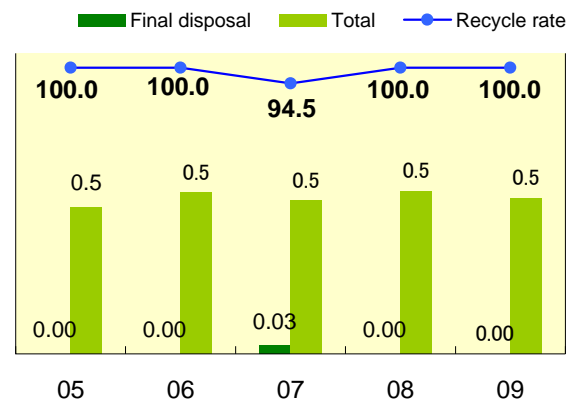
Water

Unit: 1000m³



Waste

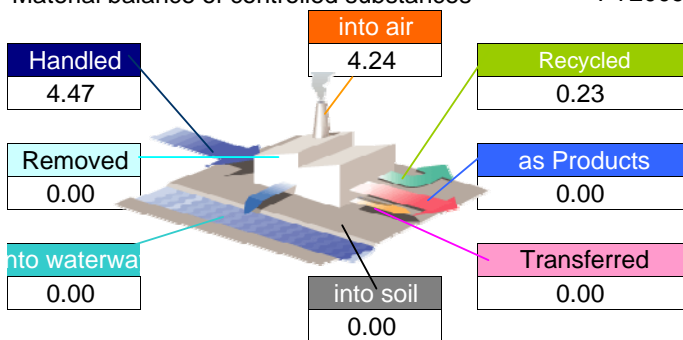
Unit: 1000t, %



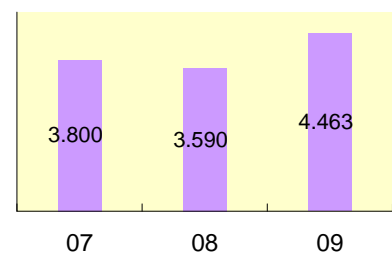
Chemical substances

Material balance of controlled substances

FY2009



Key target reduction substances



About The Panasonic Group's Chemical Substances Management in Factor
http://panasonic.net/eco/factory/chemical_substance/

About the above data

Compliance FY2009**<Air pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm ³ /h	N/A			0.00		
					0.00		
					0.00		
NOx	ppm	N/A			0.00		
					0.00		
					0.00		
Particulate	g/Nm ³	Dust Collector 1	320.00		0.00	1.08	Once a year
		Dust Collector 2	320.00		0.00	2.86	Once a year
					0.00		

<Water pollutant measurement results>

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	N/A			0.00		
					0.00		
					0.00		
BOD	mg/l	N/A			0.00		
					0.00		
					0.00		
Nitrogen	mg/l	N/A			0.00		
					0.00		
					0.00		
Phosphorus	mg/l	N/A			0.00		
					0.00		
					0.00		

<Noise and vibration>

	Unit	Measurement Area	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
Noise	dB	DT HP Stator Line	90.00		0.00	79.90	Twice a year
		NT N/A			0.00		
Vibration	dB	DT N/A			0.00		
		NT N/A			0.00		

*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 is no item to report.

Improvement of direction by government, or point outs by neighbor

Occurrence situation	Countermeasure
There is no item to report.	

Environmental Policy

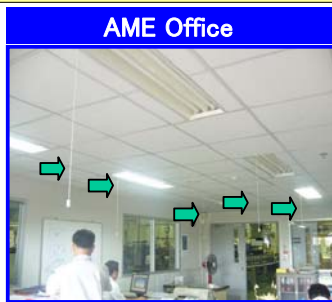
- 1) Complying with environmental legal and other requirement which the company subscribes.
- 2) Preventing and controlling water and air pollution from our performances.
- 3) Promoting an energy saving policy and minimizing the resource consumption.
- 4) Minimizing the waste by implementing the waste 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.).

Aiming to reduction of environmental impact

The Introduction to PESTH.

On fiscal year 2009. We aim to focus on the CO2 reduction. Due to last year we moved to the new factory and transfer the part production from PTECT to manufactured by ourself. There effect to energy consumption (an electricity and water) are increase. So we continue to reduction an energy consumption and aiming to reduction of environment impact and

Activity Plan	Implement Date
1. Control Temperature at 27 °C	Done
2. Installation pull switch 10 set (AME office and Silk screen room)	Done
3. Save energy suggestion project by PESTH	Done
4. Take off Hibay 400 W and install 36 W instead	Done
5. Instalation Power meter at production machine(Diecast)	Done
6. Timer control for turn on and turn off a drinking tank.	Done
7. PESTH 's competition for energy loss area.	Done



Environmental Communication



An environmental information boards.

We communicate the environmental news and information to all employees by poster, announcement and exhibition boards.

A content for distribute such as eco-ideas activities., energy consumption ,how to saving energy and CO₂ reduce activities.

Volunteering: Tree planting.(Oct 6,2008)

Panasonic employees from 6 Companies in PTHC Group with local government around 200 participants join to plant 127 trees in plot vacant area at Panasonic Thailand Group for increase green area and reduce carbon dioxide.



Vacant Area before planting trees

MD and employee planted the

Volunteering: Not driving to the office day.(Oct 6,2008)

Promote CAR FREE DAY and CAR POOL DAY campaign to all employees of PTHC for reduce carbon dioxide emission by leave their cars at home in favour of company bus service instead of driving own car to the office day.



Leave their car at home



Take company bus to office day



" Walk instead of use Shuttle Bus Campaign" (Oct 6,2008)

Promote "Walk instead of use Shuttle Bus Campaign" to all employees in PTHC Group (PESTH ,PTHC, PMRT, PAVCTH, PEDTH and PASAP) to reduce carbon dioxide emission as the following;

1. Shuttle bus service on request during time 8.00 - 11.00 am. and 1.00 - 5.00 pm. instead of service every 10 minutes.
2. Encourage all employees walk instead of use shuttle bus to go to other buildings in PTHC Group.

* Remark : Shuttle bus service supporting car for everyone to go to other buildings in



"No Use Plastic bags Campaign" (Oct 6,2008)

Campaign "No Use Plastic bags" for all employees around 4,227 persons at PTHC Group located in Samuthprakarn Province(PTHC,PESTH , PMRT, PAVCTH, PEDTH and PASAP) to reduce carbon dioxide emission from plastic bag production and reduce plastic waste as the following;

1. There are 7 Shops in canteen participate in one of this activity by posted poster no use plastic bags campaign and ask all employees in polite manner for their bring reusable bag or need plastic bags.
2. Encourage all employees use reusable bags instead of single use plastic bags and say 'No' to plastic bags when buying only a few small items through DVD display at canteen.



"Reduce canteen's air conditioner with all employee" (Oct 6,2008)

Promote " Reduce Canteen's Air Conditioner" to all employees to conserve energy and reduce carbon dioxide emission by turn off 10 air conditioners at canteen of PTHc Group (PTHC,PESTH ,PMRT, PAVCTH PEDTH and PASAP)during time 03.00 - 07.00 p.m. amount 4 hrs.



"Volunteering: Tree planting" (Oct 12,2008)

Panasonic's employees and their family from Panasonic Thailand 20 companies with representative from local government, Samrong Hospital journalists, scholarship students around 500 participants join to plant 2,500 mangrove trees at the estuary of Thailand, Bangpoo Resort for decrease CO2 emission and increasing mangrove forest.

Emergency preparedness and response

PESTH provided the plan for respond to accidents and emergency including the way for preventing and mitigating the environmental impacts that may be associated with them. The potential emergency cases of the company that have to be provided testing of the emergency are following ;

- 1) fire fighting and evacuation. 2) chemical leakage or spillage. 3) first aids training.

The contents of each plan are included responsibility for response , communication for emergency services such as fire fighting police or rescued units , internal and external communication system and material safety data sheet with its



Basic Fire Fighting



First Aids Training