


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

Panasonic Group Site Report 2011
 FY2011 : April 1, 2010 - March 31, 2011

| | | | | | |
|--------------------------------------|---|--------------------------|----------------------------|---|---------------------------------|
| Address | 101 Moo 2 Teparak Rd. T.Bangsaothong,A. Bangsaothong, Samutprakarn 10540 Thailand. | | |  | |
| Lot area | 10,329 m ² | Total floor area | 10329m ² | | |
| Establishment day | 1996/12 | Employees | 467 persons | | |
| ISO14001certification date | 1998/1 | ISO14001renewed | 2011/6 | | |
| 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 | CommunicationFY2010 0items | visitors on factory tour | 400 persons | | collaboration with municipality |
| Contact | Management System Section | | TEL: 02-723-3000 ext. 4502 | | |

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 and accessories. Our factory was certified by ISO14001:2004 "Environmental Management System" Since1998 and we had been assessed and certified as meeting the requirements of OHSAS 18001:2007 "Occupational Health and Safety and FY2011 we have a plan to implementation ISO 50001 "Energy Management System" to manage an efficiency energy consumption and prevention the environmental degradation. In addition, we raise awareness to all employees thru the environmental activities.



Compliance Administrators

Mr.Yamada Yutaka

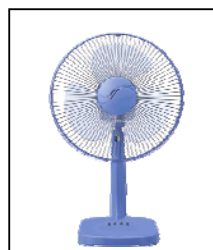
Main activities in FY2010

| Target | Result |
|--|---|
| CO ₂ Emission Plan FY2010 = 1,347 Ton | CO ₂ Emission Result = 1,357 Ton (Data from Apr'10-Mar'11) |
| | |
| | |

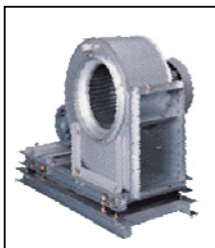
Products of Environmentally-conscious information



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



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.



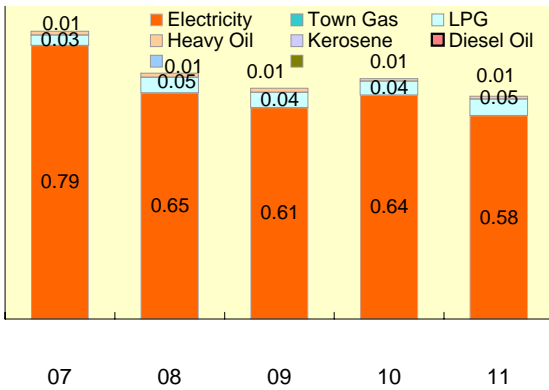
Fine Factory Fan :
 Fine Factory Fan helps adjusting temperature in working environment especially in factory, warehouse by intaking fresh air from outside into the building and exhausting hot air out of the building.
Point of environmentally-conscious

Environmental performance data

Year displayed in graph ex) 2011: April 1, 2010 - March 31, 2011

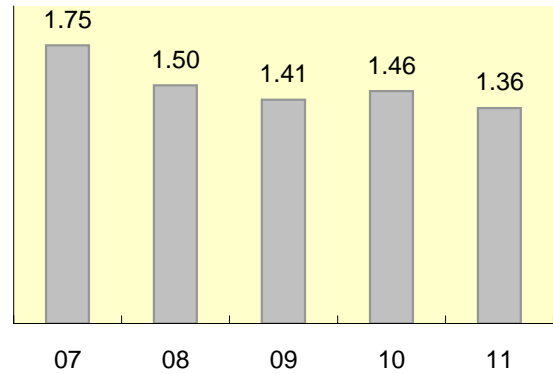
Energy

Unit: 1000kl



CO2 Emission

Unit: 1000t-CO2



Natural Energy

FY2011

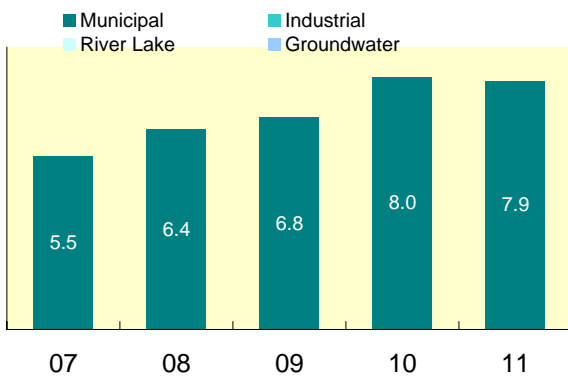
N/A 0.00 1000kW/h

Calculation standards

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

Water

Unit: 1000m³



Circulated water

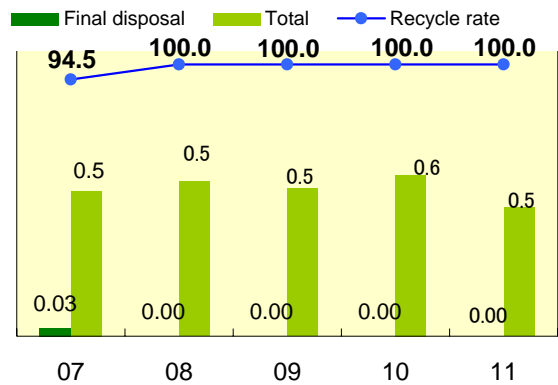
Rain-water

FY2011

m³ m³

Waste

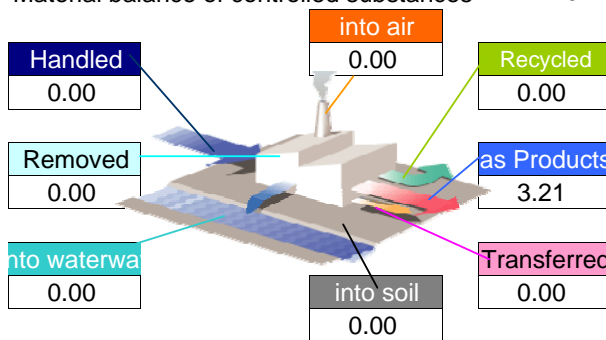
Unit: 1000t, %



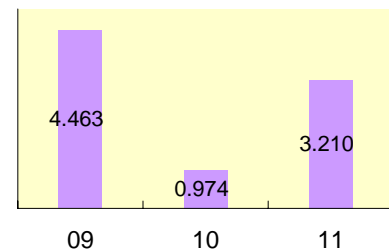
Chemical substances

Unit: t

Material balance of controlled substances FY2011



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

Compliance FY2011

<Air pollutant measurement results>

| | Unit | Facility name | Legal limit | Voluntary limit | Average measured | Maximum measured | Measuring frequency |
|-------------|--------------------|-----------------|-------------|-----------------|------------------|------------------|---------------------|
| SOx | Nm ³ /h | NA | | | | | |
| | | | | | | | |
| | | | | | | | |
| NOx | ppm | NA | | | | | |
| | | | | | | | |
| | | | | | | | |
| Particulate | g/Nm ³ | Burnner Stack | 320.00 | 10.36 | 10.36 | | Once a year |
| | | Dust collector2 | 320.00 | 2.60 | 2.60 | | Once a year |
| | | | | | | | |

<Water pollutant measurement results>

| | Unit | Facility name | Legal limit | Voluntary limit | Average measured | Maximum measured | Measuring frequency |
|------------|------|---------------|-------------|-----------------|------------------|------------------|---------------------|
| COD | mg/l | NA | | | | | |
| | | | | | | | |
| | | | | | | | |
| BOD | mg/l | NA | | | | | |
| | | | | | | | |
| | | | | | | | |
| Nitrogen | mg/l | NA | | | | | |
| | | | | | | | |
| | | | | | | | |
| Phosphorus | mg/l | NA | | | | | |
| | | | | | | | |
| | | | | | | | |

<Noise and vibration>

| | Unit | Measurement Area | Legal limit | Voluntary limit | Average measured | Maximum measured | Measuring frequency |
|-----------|------|-------------------|-------------|-----------------|------------------|------------------|---------------------|
| Noise | dB | DT HP Stator line | 90.00 | | 75.50 | 78.40 | Twice a year |
| | | NT | | | | | |
| Vibration | dB | DT NA | | | | | |
| | | NT NA | | | | | |

*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 itmes to report.

Improvement of direction by government, or point outs by neighbor

| Occurrence situation | Countermeasure |
|------------------------------|----------------|
| There is no itmes 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.

Aiming to reduction of environmental impact

On fiscal year 2010. We aim to focus on the CO₂ reduction by voluntary to implement "International Standard of energy management for improve their energy performance as following.

Change lighting from hi-bay lamp to Fluorescent

Save Energy Plan 2010

| No. | Activity | Status |
|-----|---|--------|
| 1 | Reduce Air conditioning time (Morning and Evening) | Done |
| 2 | Change lighting from Hi-bay lamp to Fluorescent lamp | Done |
| 3 | Installation of Timer control at drink tank | Done |
| 4 | Factory tour at another factory | Done |
| 5 | Installation of plastic cover at air condition switch for controlling open / off (Can not adjust temperature by themselves) | Done |



Electricity reduction 29,943 Baht/year
 CO2 emissions reduction 5.93 ton-CO2



Installation a timer control at drink tank & vending machine.



Electricity reduction 713,721 Baht/year
 CO2 emissions reduction 113.15 ton-CO2

Environmental Communication



Title : Panasonic Global Eco Learning Program : 16th December 2010

Panasonic group in Thailand has invited junior high school students and their teachers to attend "Panasonic Global Eco Learning Program" aiming to raise environmental awareness and coexistence with sustainable environment concept to the students through our eco education program which has been organized at Panasonic Management (Thailand) Co., Ltd. during December 2010 – February 2011. The main activity of the project was divided into 3 modules which are Eco Technology, Workshops (LivingStage, Eco Stage, and Battery Assembly Activity) and Eco Life.



Title : Tree Planting with EGAT : 7th August 2010 at Hua-Hin Prachuab Khirikhan Province.

Panasonic & SANYO employees and their families for 450 participants join to plant 2,200 trees under "Electricity Generating Authority of Thailand (EGAT) Tree planting project" in upcountry of Thailand.



Title : Marine Conservation Project : 26th June 2010 at Sea Turtles Conservation Center Sattaheep Chonburi Province.
 Panasonic & SANYO employees and their families about 430 participants join to conserve sea turtle as cleaning sea turtle shell, releasing them to the sea and also clean up the beach.

Title : Biodiversity Education for Children : 8 th September 2010 at Khaokhoew Open Zoo Chonburi Province.
 Panasonic Group (Thailand) Co., Ltd. held the " Biodiversity Education for Children" They learned biological diversity thru exhibition in conservation development resources center 5 rooms : 1)Reptiles room 2) Diverse insect population room 3) Amphibian room 4) The kingdom of plants room 5) The variety of bird and tiger population and finally the children wrote the environmental commitment and taking knowledge from participated activities.



The children wrote the environmental commitment and the taking knowledge from participated the activities.

Emergency preparedness and response

Radiation leakage practices of Y2010



Chemical leakage practices of Y2010



Fire evacuate practices of Y2010



First Aids cours training of Y2010



Basic fire fighting course training of Y2010

