

Panasonic Ecology Systems (Thailand) Co.,Ltd.

Panasonic Group Site Report 2017
FY2016 :April 1, 2016 - March 31, 2017

Address	101 Moo 2 Teprarak Rd. T.Bangsaothong,A. Bangsaothong,Samutprakran 10540 Thailand.		
Lot area	12872m ²	Total floor area	16917 m ²
Establishment day	1996/12	Employees	533persons
ISO14001 certification date	1998/1	ISO14001 renewed	2017/3
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 FY2016 1items	visitors on factory tours	280persons
Contact	ISO Management	TEL:	+66 (0) 27233000 ext 4591



Message from Compliance Administrator

The company is located in Samutprakarn province. We performed environmental friendly promotion in site of Panasonic Thailand Co.,Ltd. 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 ISO14001:2014 "Environmental Management System" Since1998 and OHSAS 18001:2007 " Occupational Health and Safety since August 2008. In FY2011, We had been assessed certified as meeting the requirements of ISO 50001:2011 "Energy Management System" to manage an efficiency of energy consumption & energy use and prevention of environmental pollution.



Compliance Administrators

Mr.Hirosato Sakai

Main activities in FY2016

Target	Result
CO ₂ Emission Plan FY2016 ≤2,313 ton	CO ₂ Emission Result = 2,121 ton (Data fromApr'16-Mar'17)
Waste emission 950 ton / Recycling rate 99.88 %	Waste emission = 1,017 ton / Recycling rate 99.84 %
Water consumption 11,140 M ³	Water consumption = 10,355 M ³

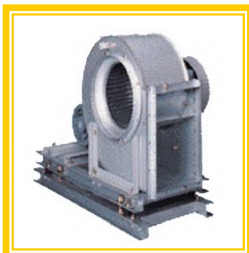
Products of Environmentally-conscious information



Ventilating Fan :
Ventilating Fan helps air ventilation by intake & exhaust functions.
Point of environmentally-conscious
The Motor usage of low electricity consumption. Produced at less global environmental effect process. Comply with RoHS standard



Electrical Fan :
Electrical Fan produces wind and creates cool and comfortable living environment.
Point of environmentally-conscious
Energy saving at the top rank (No.5) in Thailand (Reference to TIS.) and comply with RoHS standard.



Air Moving Equipment (AME) :
Air Moving Equipment is suitable for ventilating in the large space such as in warehouse or a factory.
Point of environmentally-conscious
Ventilation in a large space. Comply with RoHS standard



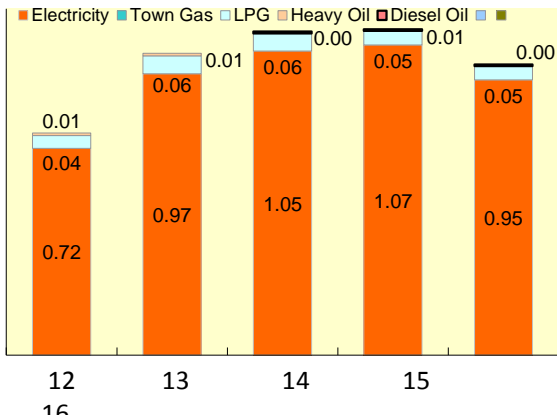
Fine Factory Fan :
Fine Factory Fan helps adjusting temperature in working environment especially in factory and warehouse by in-taking fresh air from outside into the building and exhausting hot air out of the building.
Point of environmentally-conscious
Comply with RoHS standard.

Environmental performance data

Year displayed in graph ex) 2016: April 1, 2016 - March 31, 2017

Energy

Unit: 1000kl



Natural Energy

FY2016

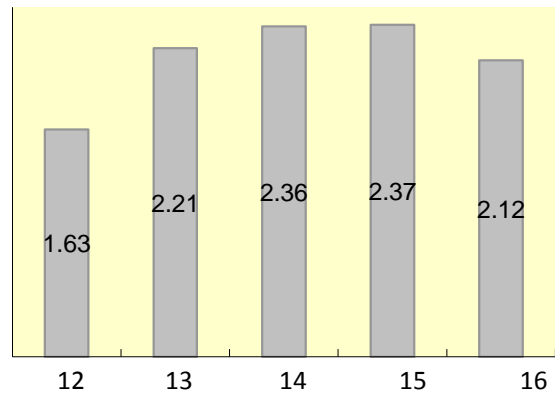
1000kW/h

Calculation standards

CO2 emission = (Amount of electric power use in kWh x 0.5385 kgCO2/kWh)

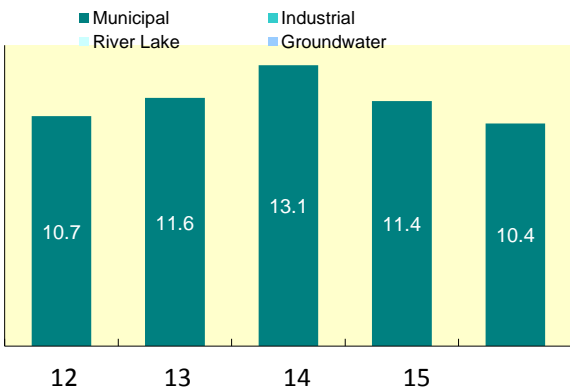
CO2 Emission

Unit: 1000t-CO2



Water

Unit: 1000m³



Circulated water

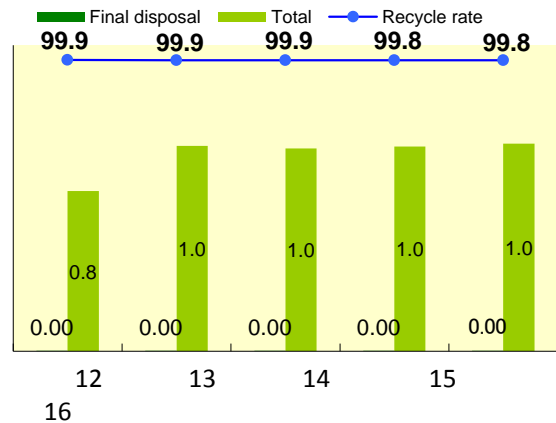
Rain-water

FY2016

m³ m³

Waste

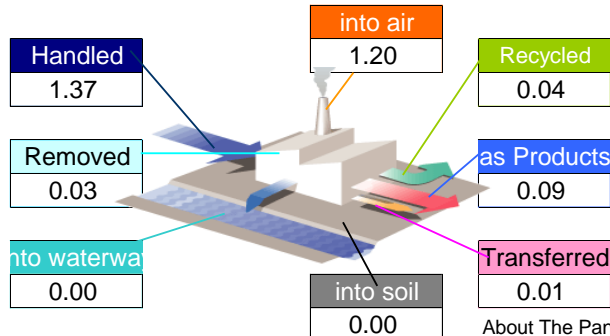
Unit: 1000t, %



Chemical substances

Unit:t

Material balance of controlled substances FY2016



About The Panasonic Group's Chemical Substances Management in Factories

<http://www.panasonic.com/global/corporate/sustainability/eco.html>

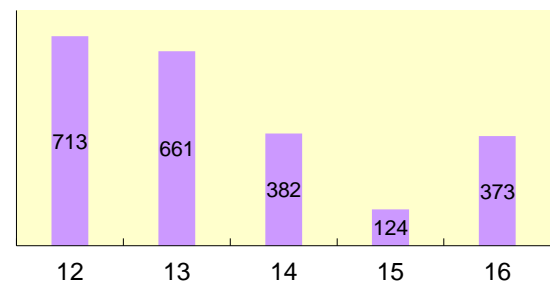
About the above data

There is no item to report.

Chemical substances

Unit:Count

Human/Environment Impact



Compliance

FY2016

<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	mg/m ³	Die casting : Burnne	320.00	5.00	5.00	5.00	1
		Dust collector no.1	320.00	1.80	1.80	1.80	1
			0.00	0.00	0.00	0.00	0

<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 Press M/C 250 T	90.00	85.00	84.35	84.50	2
		NT 0	0.00	0.00	0.00	0.00	0
Vibration	dB	DT #N/A					
		NT					

*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

Environmental Policy

- 1) Complying with related environmental legal and other requirement which the company.
- 2) Protecting 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

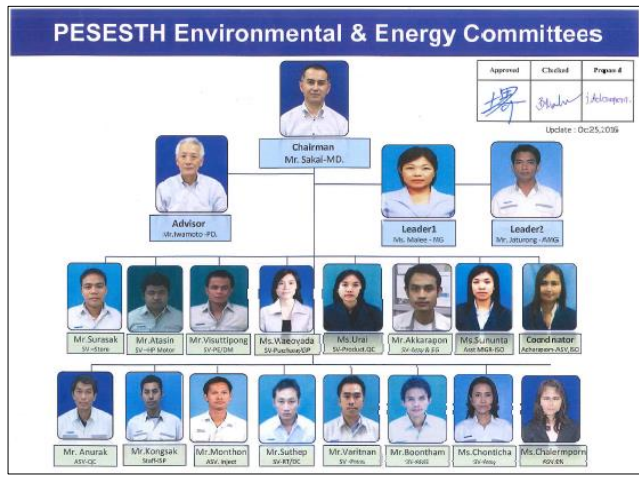
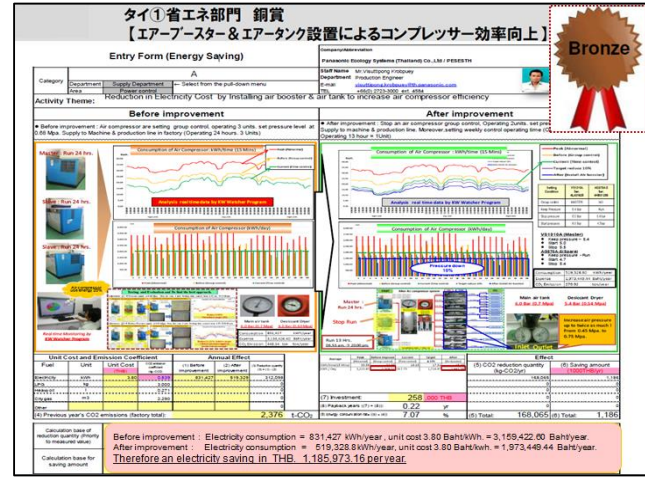
- 1) Complying with related occupational health and safety legal and other requirement which the company.
- 2) Make all persons including employees, contractors and other visitors aware the importance of safety and keep safety is the basis of their performance.
- 3) Continually control, improve and protect 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 related energy conservation legal and other requirement which the company.
- 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

To promote an environmental activity and reduce energy resources consumption in PESESTH ,We have to forming an environmental and energy committees. In FY2016 we join the ES energy contest and achieved bronze prize in energy conservation activity



Environmental Communication

Eco Relay : Top managements, employees and their family join the mangrove tree planting at Chonburi Province on Jul9'2016



Environmental activity in quarter 3 : Waste reduction ,water saving and safety activity and up-cycling contest

Waste Reduction Activity

Activity: Waste reduction & Safety Drive Activities
Date: Dec27,2016
Venue: Training room of PESESTH
Participation: 33 employees
For Environment activity, we promoted in subject of waste reduction, Effect full of water, water saving in factory and daily routine and waste producer campaign for encourage a waste reduction cooperation.

Result: Waste reduction 9.5 (9L, 885 kg)
Improvement: 247.18 → Dec16

Water & Chemical & Safety

Activity: 100% Total Environmental Day
Theme: Waste reduction & Safety Drive Activities
Date: Dec27,2016
Venue: Training room of PESESTH
Participation: 33 employees
For Environment activity, we promoted in subject of waste reduction, Effect full of water, water saving in factory and daily routine and waste producer campaign for encourage a waste reduction cooperation.

Water protector "Water & Safety"

Emergency preparedness and response

Fire fighting evacuation practice

The company arrange an activities to identify potential and respond to accidents and emergency including the way for preventing and that may be occurred. The potential emergency cases in this year that have to be provided practice and train to employees are fire fighting evacuation.

Y2016 Safety & Hygiene Organization

