Panasonic Automotive Systems Asia Pacific (Thailand) Co.,Ltd.

101 Moo 2, Teparak Road, T. Bangsaothong, A. Bangsaothong, Address

Car Audio, Electronic Toll Collection, DECK,

Samutprakarn 10540 Thailand.

Total floor 18698m² 19633m² Lot area

area

Establishment

1996/6

Employees 1106persons

day ISO14001cert ification date

1998/7

ISO14001re 2011/3

newed

Major **Products**

Environmental CommunicationFY2011

Information disclosure

Contact

1items

visitors on factory tour

28persons

TEL:

collaboration with municipality

4items

Panasonic Group Site Report 2011

FY2011: April 1, 2010 - March 31, 2011

662-723-3010 ext. 4399

Message from Compliance Administrator

Managing Director

PASAP was changed the company name from Panasonic Automotive Systems (Thailand) to Panasonic Automotive Systems Asia Pacific (Thailand) on December 1, 2006. and still certified ISO 14001: 2004 Certification by SGS Registrars that Re-Registration on Mar 21, 2011. We intend to conserve the environment by reduce natural resource consumption to be sustainable business.



Compliance Administrators

Mr.Masahiro Doi

Main activities in FY2011

<u>Target</u>	Result		
Reduce CO2 emission by energy conservation activity.	We have CO2 reduction activity by participate from committee		
	from every section (Green Factory Committee) to reduce		
	electricity usage from the capacity increased and two shifts		
Increase factory waste recycle ratio	We try to increase ratio of recycle to 100% by change the dispose		
	of hazardous waste from sanitary landfill to energy recovery		
	(incineration) in cement portland industrial.		

Products of Environmentally-conscious information



Car Audio:

New model of Car Audio implement follow RoHs and ELV Directive and Matsushita Policy (No Hazardous Substance in Product).



Electronic Toll Collection (ETC) ETC process are comply with RoHS and ELV directive.

Main chemical substance are Lead-Free.





DECK PCB:

PCB of DECK Mechanism in Car audio was product of PASAP that establish on beginning of 2010. DECK PCB process are comply with RoHS and ELV directive. Main chemical substance are Lead-Free.

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Environmental performance data

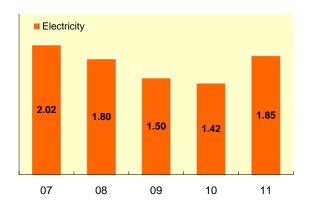
Year displayed in graph ex) 2011: April 1, 2010 - March 31, 2011

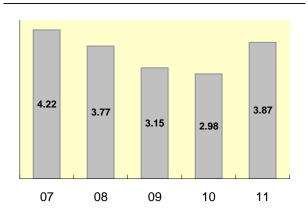
Energy

Unit: 1000kl

CO2 Emission

Unit: 1000t-CO2





Natural Energy

FY2011

1000kW/h

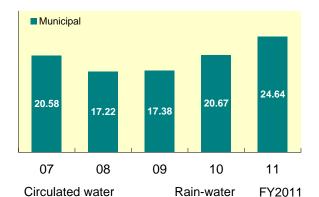
Unit: 1000m3

m³

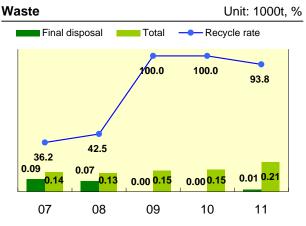
Calculation standards

CO2 emissions (kg CO2) = Amount of energy-specific use (each unit) * Energy-specific CO2 emission coefficient (kg CO2/ unit)

Water

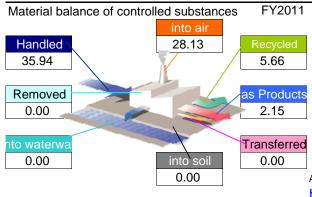


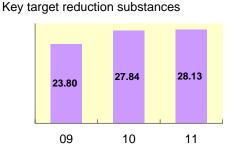
m³



Chemical substances

Unit: t





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

About the above data

Main Chemical Substances are Isopropyl Alcohol and Ethanol.

Panasonic Group Site Report 2011

pliance		FY2011					
<air pollutan<="" th=""><th>t measurer</th><th>nent results></th><th></th><th></th><th></th><th></th><th></th></air>	t measurer	nent results>					
	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm³/h						
NOx	ppm						
Particulate	g/Nm³						
<water pollut<="" td=""><td>tant measu</td><td>rement results></td><td></td><td></td><td></td><td></td><td></td></water>	tant measu	rement results>					
	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l			IIIIII	measured	measured	
BOD	mg/l						
Nitrogen	mg/l						
Phosphorus	mg/l						
<noise and="" td="" v<=""><td>Unit</td><td>Measurement Area</td><td>Legal limit</td><td>Voluntary</td><td>Average</td><td>Maximum</td><td>Measuring frequency</td></noise>	Unit	Measurement Area	Legal limit	Voluntary	Average	Maximum	Measuring frequency
Noise	dB	DT SMT Production	90.00	limit 85.00	measured 78.80		2 times/year
Vibration	dB	DT NT					
_	olicable):Th s of legal li		•	•		-	
Improveme	nt of direc	tion by governme	nt, or point	outs by ne	ighbor		
Occurrence :	situation			Counterme			
	tem to rep						

Panasonic Automotive Systems Asia Pacific (Thailand) Co.,Ltd.

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Environmental Policy

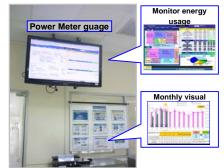
- 1) Complying with environmental legal and other requirement which the company subscribes.
- 2) Preventing and controlling water and air pollution from our performances.
- 3) Promoting an energy saving policy and minimizing the resource consumption.
- 4) Minimizing the waste by implementing the waste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



Visual Control





Main activity of CO2 emission reduction:

- 1) Set team (GF Committee) to participate for energy saving activity.
- 2) Committee monthly meeting for discuss monthly result and brainstorm for improvement activity.
- 3) Site survey by committee to improvement in each area for energy saving.
- 4) Monitoring and follow up the progressive of each activity by BA chart.



Environmental Communication

Training for sub-contractor:

ISO14001 basic training and emergency response to make sub-contractor to have the knowledge about how to save environment before working in the company in order to raise environmental awareness.

Promote "eco ideas" for external:



Panasonic Marine Conservation 26 Jun'10



Tree planting at provinces 7 Aug'10







Biodiversity Education for Children Project at the Zoo 8 Sep'10

Emergency preparedness and response



About our concept and training plan

Reference by environmental procedure (EP-47-01) and accidental & emergency manual of PASAP. We set plan of fire evacuation drill and emergency response 1 times/year (day & night shift). Target of participant are all of PASAP members (Included management level). For FY2011, prepared on 29 Nov'10.

Case of a training

Besides fire evacuation and emergency response workshop. We have 1) basic fire fighting training course by third-party 2) training for emergency prepareness & response in case of chemical leakage 3) emergency plan for radiation leakage and 4) fire evacuation.





