

**PT. Panasonic Gobel Energy Indonesia (Old Company name: PT. Panasonic Gobel Battery Indonesia)**

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

Address	Kawasan Industri Gobel, Jl. Teuku Umar KM 44, Cikarang Barat, Bekasi, Indonesia 17520		
Lot area	99556m <sup>2</sup>	Total floor area	77327m <sup>2</sup>
Establishment day	1987/1	Employees	1419persons
ISO14001certification date	1997/2	ISO14001renewed	2009/2
Major Products	Manganese Dry Battery, Lithium Coin Battery, Torch Light		
Environmental Information disclosure	CommunicationFY2009 4items	visitors on factory tour	403persons
Contact	Technical & QA Department		TEL: 62 21 88324681



collaboration with municipality 1items

**Message from Compliance Administrator**

Since established at May 11th, 1972 we believe that the environmental quality as essential as the product quality. With a highly effective waste management technology in place and preventive action to any potential pollutions, PECGI actively participates in preserving the environment. Our commitment to save the environment proven by environmental management system (ISO 14001) implementation since 1997, applies global standard for product and some certificate awards. The latest environmental award is Green Rating PROPER for environmental performance granted by Environmental Ministry of Indonesia. PROPER is Program for Pollution Control, Evaluation and Rating as tools form Environmental Ministry of Indonesia to evaluate environmental performance of companies in Indonesia. We will continue our environmental concern because we believe sustainability of life depend on the sustainability of environment.



Compliance Administrators  
**Shigeta Mitsutoshi**

**Main activities in FY2009**

Target	Result
Renewal of environmental management system (ISO 14001:2004) certificate.	Certificate renewed on February 2009.
Maintain Green Rating PROPER	Green Rating PROPER achieve from Environmental Ministry of Indonesia and environmental company award from local government of Bekasi, West Java.

**Products of Environmentally-conscious information**



**Manganese Dry Battery**

PECGI produces manganese dry batteries on D, C, AA and AAA size



**Lithium Coin Battery**

PECGI produces variety size of lithium coin batteries : CR-2016, CR-2025, CR-2032, CR-2450, CR-1216, CR-1220. CR-1616. and CR-1620.



**Torch Light**

PECGI produces variety of torch lights for different purposes, from small-sized torch light, the mini light to emergency light

**Point of environmentally-conscious**

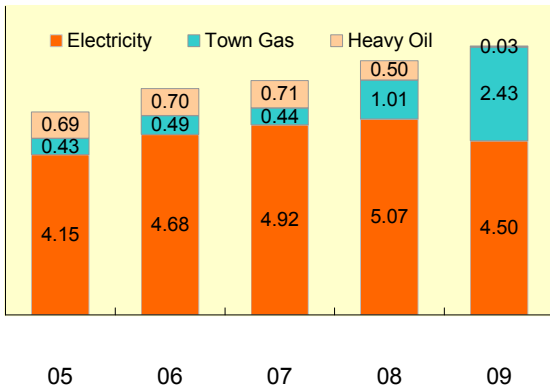
PECGI applied control of prohibited substances in all products. We call it Green Procurement System. Start from raw material selection, in process control until out going inspection we consider the contamination of prohibited substances in our product. In order to ensure the compliance of our product, we also conduct annual analyze to the third laboratory for all part/material used, periodic checking with our own XRF machine and collaborate with our vendor as the sources of part/material. All PECGI products comply with global standard such as RoHS, EU Battery Directive and other requirements.

**Environmental performance data**

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

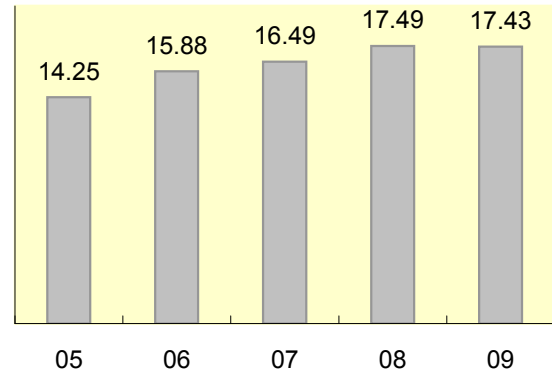
**Energy**

Unit: 1000kl



**CO2 Emission**

Unit: 1000t-CO2

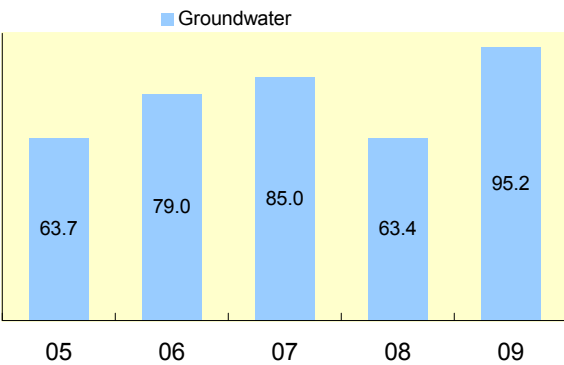


**Calculation standards**

Calculation standard of energy consumption and CO2 emissions base on Panasonic standard. Since PECGI don't have any information from the Indonesia Government about CO2 emission standard. Electricity CO2 emission coefficient = 0.717 kg / KWH, town gas CO2 emission coefficient = 2.29 kg / M3 and heavy oil CO2 emission coefficient = 2.71 kg / L

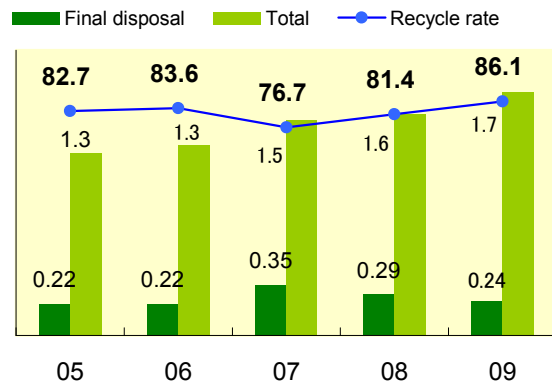
**Water**

Unit: 1000m<sup>3</sup>



**Waste**

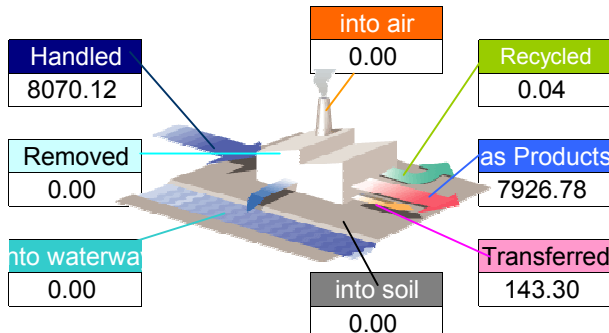
Unit: 1000t, %



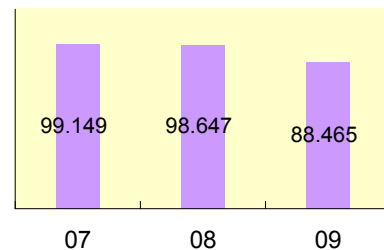
**Chemical substances**

Unit: t

Material balance of controlled substances FY2009



Key target reduction substances



About The Panasonic Group's Chemical Substances Management in Factories

[http://panasonic.net/eco/factory/chemical\\_substance/](http://panasonic.net/eco/factory/chemical_substance/)

About the above data

The reduction of transferred of chemical substances related with some improvement in our production process as the effort to reduce defective product.

**Compliance FY2009**

**<Air pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm³/h	Boiler 2 Stack	150.00	150.00	30.45	60.90	twice a year
		Boiler 1 Stack	150.00	150.00	24.38	40.90	twice a year
		Generator Stack	1000.00	1000.00	328.50	657.00	twice a year
NOx	ppm	Boiler 2 Stack	650.00	650.00	1.88	3.76	twice a year
		Generator Stack	1000.00	1000.00	62.00	124.00	twice a year
		N/A			0.00		
Particulate	g/Nm³	Boiler 2 Stack	350.00	350.00	0.83	0.83	twice a year
		Generator Stack	350.00	350.00	0.67	0.67	twice a year
		Dust Collector MBD	350.00	350.00	0.67	0.67	twice a year

**<Water pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	Domestic Waste Wa	100.00	100.00	60.30	80.00	every three months
					0.00		
					0.00		
BOD	mg/l	Domestic Waste Wa	50.00	50.00	26.70	48.00	every three months
					0.00		
					0.00		
Nitrogen	mg/l				0.00		
					0.00		
					0.00		
Phosphorus	mg/l				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 Metal Jacket Are	85.00	85.00	90.50	91.00	every three months
		NT Metal Jacket Are	85.00	85.00	91.00	91.00	every three months
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**

Regarding noise intensity that out of the legal limit, we take some corectives to protect the employee from the impact of this condition. Those corective actions as below : 1.Distribute personel protective equipment (Ear plug) for the employee 2.Increase employee awareness by conducting some training and placing some instruction to wear ear plug 3.Maintain employee awareness by conducting monthly safety and environmental patrol

**Improvement of direction by government, or point outs by neighbor**

Occurrence situation	Countermeasure
There is no item to report	


**Environmental Policy**

PT Panasonic Gobel Energy Indonesia (PT PECGI) is committed to be a globally acknowledged, customer oriented, fully aware of occupational health and safety, and environmentally friendly company. To gain those aims PT PECGI is committed to:

1. Implement quality, health, safety and environmental management systems consistently.
2. Develop ability, knowledge and skill for all level employees to improve productivity.
3. Comply with regulations related to product, activity, health, safety and environment.
4. Create a safe and healthy working environment, and prevent environmental pollution affected by activities and products.
5. Perform continuous improvement efforts to increase quality, health, safety and environmental performances.

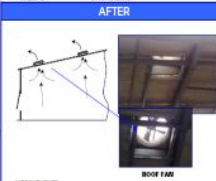
**Aiming to reduction of environmental impact**

**BEFORE**



**CURRENT CONDITION**  
 1. BEFORE THE AIR CONDITIONER FACTORY, IF WE WILL BE USING FOR PRODUCTION ACTIVITY WE MUST BE INSTALL. 4 UNIT PACKAGE AIR CONDITIONING (1 UNIT, 4 KW)  
 ENERGY : 1 KW.H = 3.6 MJ = 22.2 D x 2 M = 100.200 Kwh/Year

**AFTER**




**IMPROVEMENT**  
 1. WE USING ROOF FAN FOR CHANGE AIR CONDITIONER UNIT  
 (ENERGY) : 200.2000  
 ENERGY : 1 KW.H = 3.6 MJ = 22.2 D x 2 M = 100.200 Kwh/Year  
 ROOM/ALC STREET  
 (100.200 - 100.200) / 365 x 24 = 0 Kwh/Year

**Change Air Conditioner to Roof Fan**


By using roof fan, instead of air conditioner, PECGI can reduce energy used (electricity) and also reduce CO2 emission. Total 8 units of air conditioner at inspection area were removed and changed to roof fan.

**Before**



**Current condition**  
 >Control on/off machine by operator  
 >If machine overload, can't adjust

**After**



**Improvement**  
 >Control on/off machine by automatic timer control  
 >Machine load adjust automatically

**Install Timer Program for Utility**

Reduce electric consumption by installed timer program on two unit of honey dry (utility). This timer set to automatically turn off honey dry on weekend or holiday.

## Environmental Communication



### PECGI Tree Planting Program

Considerate with PECGI policy to concern with environmental preservation and educate the society, at October 2008 PECGI contribute 1,000 trees (Swietenia mahagoni sp.) to village administration of Telaga Asih, Bekasi, West Java and planted at village neighborhood. In the picture, Mr. Shigeta officially hand over trees to local administrator (left) and plant tree at Telaga Asih village (right).



### Environmental Management and Monitoring Report

Periodically PECGI submit Environmental Management and Monitoring Report to some authorization body in Indonesia as social responsible of PECGI to inform and educate the society about PECGI environmental performance.

## Emergency preparedness and response



### About our concept and training plan

Emergency preparedness and response training conduct yearly under coordination of GA & HR Department, Safety and Environmental Committee. The training will evaluate for the improvement of the next training program.



### Case of a training

There are two emergency training in FY 2008/09, there are fire fighting training and evacuation drill. Fire fighting training was participated by representative of employee and evacuation drill was participated by all PECGI employee include top management.