

**Panasonic Energy Poland S.A. (Old Company name: Panasonic Battery Poland S.A.)**

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

Address	Sloneczna 42; 62-200 Gniezno; Poland			
Lot area	83678m <sup>2</sup>	Total floor area	22000m <sup>2</sup>	
Establishment day	1993/12	Employees	266persons	
ISO14001certification date	1998/6	ISO14001renewed	2008/12	
Major Products	Batteries,			
Environmental Information disclosure	CommunicationFY2009 1items	visitors on factory tour	94persons	
Contact	jaroslaw.janas@eu.panasonic.com		TEL:	48 61 4230401

**Message from Compliance Administrator**

Panasonic Energy Poland S.A. is a manufacturer of zinc carbon dry batteries. The production is based on the latest environmentally friendly technology worked out by Panasonic. Since the production commencement in 1995, PECPL has been manufacturing environmentally friendly and heavy metals free batteries of following types: R6, R14, R20. In mid of 2007 we introduced new production line with R03 battery type. From the very beginning the factory management has been putting a great emphasis on the elimination of raw materials that are not friendly to the environment. Moreover, it was considered necessary to describe every process run in the factory from the ecological point of view. As a consequence of the above activities in 1998 an environmental management system corresponding to ISO 14001 standard requirements was introduced in the factory. At present, every process meets the environmental requirements and all production waste is recycled. Nevertheless, PECPL keeps searching for new solutions in the environmental line of activity including: training employees, participation in environmental conferences, reusing of raw materials in the process.



Compliance Administrators

**Jaroslaw Janas**

**Main activities in FY2009**

Target	Result
Energy conservation	In 2008 PECPL achieved energy conservation ratio by 5,5% by several project giving a significant CO2 reduction
Reduction of tap water consumption	Continuing effort with tap water reduction factory reduced city water consumption by 11,2%
Process waste reduction	In 2008 consecutively PECPL reduced wastes by 2,2% and improved recycling rate reaching 93,3%

**Products of Environmentally-conscious information**



Cylindrical carbon-zinc dry batteries  
R03 (AAA)  
R6 (AA)  
R14 (C)  
R20 (D)

Bateries made in PECPL meet 2006/66/EC new battery directive and EN 60086 series standards. Toward reducing impact on the global environment PECPL introduced to the EU market product free from asphalt sealant. New battery construction has improved battery shelf life and reduced the risk of leakage by improper usage.

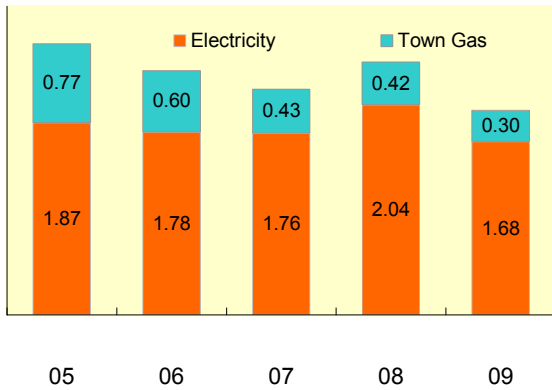
-> link to a product information web-site.

**Environmental performance data**

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

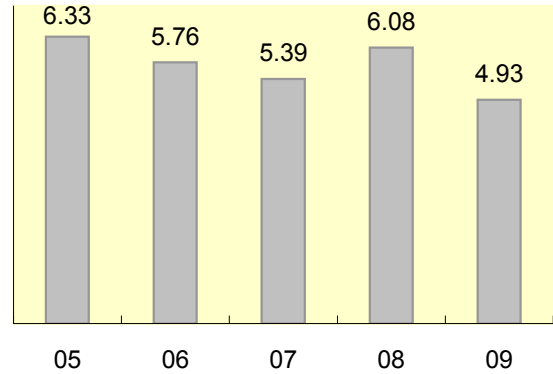
**Energy**

Unit: 1000kl



**CO2 Emission**

Unit: 1000t-CO2

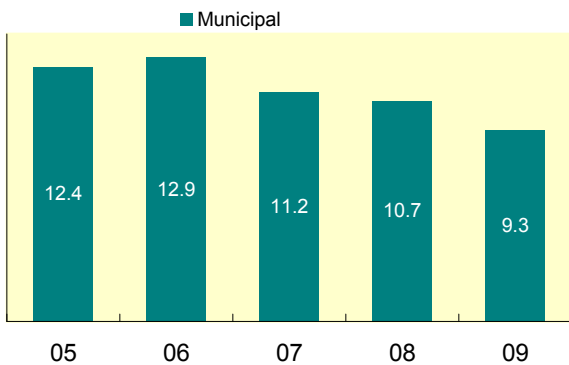


**Calculation standards**

Numerical values for respective countries listed on the Calculation Tools in GHG Protocol website by World Business Council for Sustainable Development (WBCSD) and World Resource Institute (WRI). Levels for 2002 (Electricity-Heat Steam Purchase\_tool1.0\_final) has been used for all years.

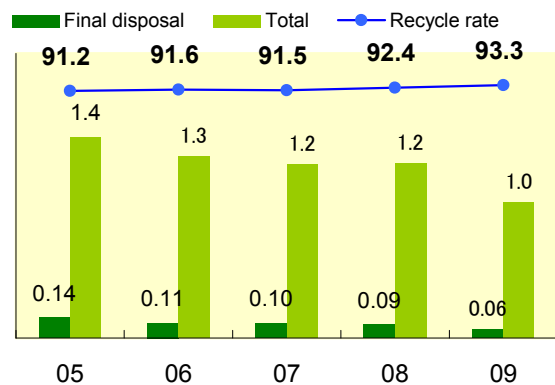
**Water**

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



**Waste**

Unit: 1000t, %

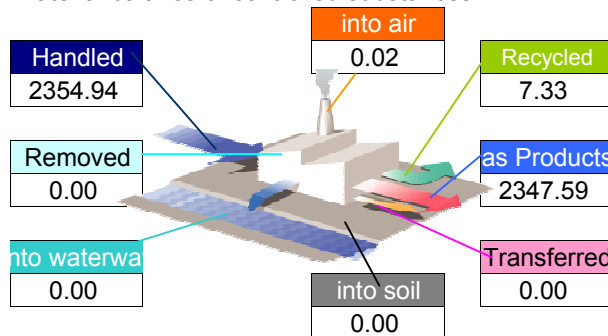


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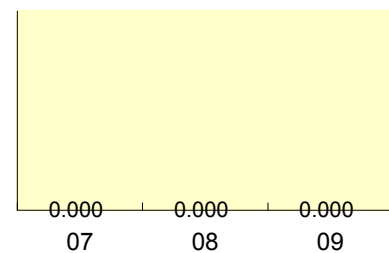
**Chemical substances**

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 amount of chemical substances handled by site is decreasing through loss-preventive technology and its optimizing as well as improving the yield of production. Factory invest with energy saving processes to reduce CO2 emission.

**Compliance FY2009**

**<Air pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm³/h	NA			0.00		
					0.00		
					0.00		
NOx	ppm				0.00		
		Technology	0.34		0.01	8.e-003	2
					0.00		
Particulate	g/Nm³	Technology	1.2e-002		0.00	3.e-003	2
					0.00		
					0.00		

**<Water pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	SOCIAL SEWAGE	1000.00		110.60	160.00	1
					0.00		
					0.00		
BOD	mg/l	SOCIAL SEWAGE	700.00		48.70	63.00	1
					0.00		
					0.00		
Nitrogen	mg/l	SOCIAL SEWAGE	200.00		11.20	15.40	1
					0.00		
					0.00		
Phosphorus	mg/l	NA			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 AROUND FACT	55.00	55.00	55.00	50.00	1
		NT AROUND FACT	45.00	45.00	40.00	41.00	1
Vibration	dB	DT NA			0.00		
		NT NA			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 excess of limits. Factory well controls all its emissions.

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

Occurrence situation	Countermeasure
There is no item to report	

## Environmental Policy

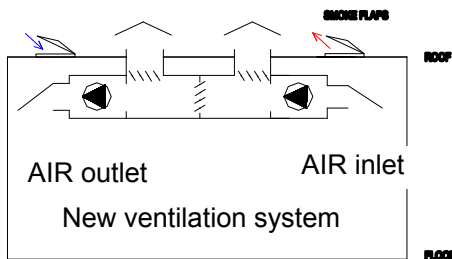
The policy of our company is to fulfill all needs of our customers by providing them with the best quality batteries; ones that are environment and user friendly and at a competitive price, produced in harmonious coexistence with the local environment. Our company aim is to minimize the influence on the natural environment as much as possible. Being concerned with harmonious coexistence with global environment we:

- 1). apply environmentally friendly technologies and raw materials as well as energy-saving technologies in production process.
- 2). take actions aiming at more complete environment protection than legally required,
- 3). explain and popularize the program of quality assurance, health and safety at work and arouse ecological awareness in all departments and sections of the enterprise,
- 4). correctly understand our impact on the natural environment and pursue to preserve it by management of waste, prevention of pollution, reuse of waste in production process and energy conservation.

## Aiming to reduction of environmental impact

### EcoEvent with local High School

PECPL helped ecological group from high school with preparation of ecological newspaper - printed on eco-paper. This newspaper included articles about recycling of batteries, plastic bags impact on environment, information about Eco Relay activities and proecological activities of PECPL connected with reduction of CO<sub>2</sub>, energy, water etc. 20 kg of batteries were received by PECPL which were collected by pupils exclusively to this event.



### Factory ventilation system modification

PECPL is continuously striving to reduce impact on environment. One of the applied methods was modification of ventilation system in production floor by mixing fresh air with hot one from inside of the site by roof flaps. By this adjustment consumption of necessary air to fit total factory requirement was reduced and spared unnecessary work of one of air ventilation system.

This activity resulted in 140 MT reduction of CO<sub>2</sub> annually.

## Environmental Communication



### Factory tour - local society

43 students from ecological group from junior high school visited our factory. PECPL prepared presentation about history of our factory and about our ecological activities. They had also opportunity to make battery by themselves, get knowledge about batteries structure and batteries recycling. We offered them factory tour. Young people were very grateful for the possibility of visiting PECPL.

PECPL prepared and distributed among school students as well as PECPL employees cotton shopping bag with 'eco ideas' and 'Panasonic' brand to increase ecological awareness and promote 'eco ideas' activity.



### Scientist's Night supported by PECPL

Poznan University of Technology organized night event for students as well as local citizenship. Factory donated this event by 50 pcs of battery do-it-yourself kits. At one session battery construction, battery impact for local environment and promotion of battery collection system from the local market was explained by university lecturer.

### **Emergency preparedness and response**

The enterprise and all workers are prepared to prompt actions aiming at removal of occurring threats or results of unexpected breakdowns to the environment and (or) employees. There is a list of possible environmental threats and potential emergency situations that may affect environment or a man, requiring preparation of emergency plans. Emergency plans and connected with them instructions ensure complete identification and elimination of breakdowns results. Factory defined resources and training indispensable to efficient removal of the results.



Once a year PECPL prepares an emergency test in case of fire and environmental pollution aiming at training and checking the company performance in the face of threats.

In June 2008 all PECPL employees exercised their readiness to swift reaction in a simulated fire accident. The test proved employees awarness of necessity of quick action as well as PECPL efficiency in evacuation and having maintained conditions encouraging complex removal of breakdowns results.