

Address	Oravicka 616, 028 01 Trstena, Slovakia				Trstena plant
Lot area	77079m <sup>2</sup>	Total floor area	22953m <sup>2</sup>		
Establishment day	1905/6	Employees	1393persons		Stara Lubovna plant
ISO14001 certification date	2001/6	ISO14001 renewed	2009/6		
Major Products	Tuners+WM+DAB, Power supplies, Control drives, Switches + Remote controls. Speakers			Stara Lubovna plant	
Environmental Information disclosure	1items	visitors on factory tour	12persons	collaboration with municipality	Oitems
Contact	General Affairs department			TEL:	+421 43 5303 167

**Message from Compliance Administrator**

"It is our goal to manufacture our products in an environmentally-friendly manner, and to ensure that they can be handled, used and disposed of in a safe way." We have established an environmental management system in PEDEU-SK in both plants in Trstena and Stara Lubovna in accordance with STN EN ISO 14001:2005 requirements. We promote energy consumption saving activities. We have introduced lead free soldering into mass production since 2003. We run environmental projects internally by teaching our employees the responsibility of separating and recycling the waste, saving the energies consumption and secure safe manipulation with chemical substances. We improve our accidental readiness with regular simulating of accidents. With sophisticated technology we reduced environmental related substances in compliance with RoHS directive and also REACH directive.



Compliance Administrators

**Mr. Olejar , Mr. Paris**

**Main activities in FY2009**

Target	Result
- Reduce CO2 emissions from energy consumption by 7 %	CO2 emission amount has increased because of production amount increase due to new SPK production started.
- Reduce amount of toluene used in adhesives in SPK production by 4 %	New toluene-free adhesive was introduces into SPK production and amount of toluene used was decreased
- Decrease amount of waste volume by 2 %	Waste volume in total has increased because of production amount increase due to new SPK production started.

**Products of Environmentally-conscious information**



**Control Board for Home Appliance**  
Since we are a producer of electronic components we are ready to produce Green Components in compliance with RoHS directive and other requirements of our customers.

**Point of environmentally-conscious**  
Our products does not contains Cadmium, Lead, Hexavalent Chromium, Mercury, PBB, PBDE.



**Power Supply for AudioVideo**  
Since we are a producer of electronic components we are ready to produce Green Components in compliance with RoHS directive and other requirements of our customers.

**Point of environmentally-conscious**  
Our products does not contains Cadmium, Lead, Hexavalent Chromium, Mercury, PBB, PBDE.



**Digital Terrestrial Tuner**  
Since we are a producer of electronic components we are ready to produce Green Components in compliance with RoHS directive and other requirements of our customers.

**Point of environmentally-conscious**  
Our products does not contains Cadmium, Lead, Hexavalent Chromium, Mercury, PBB, PBDE.



**Automotive Speaker**  
Since we are a producer of electronic components we are ready to produce Green Components in compliance with RoHS directive and other requirements of our customers.

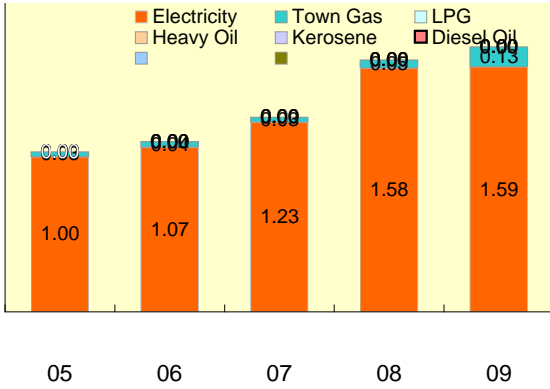
**Point of environmentally-conscious**  
Our products does not contains Cadmium, Lead, Hexavalent Chromium, Mercury, PBB, PBDE.

**Environmental performance data**

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

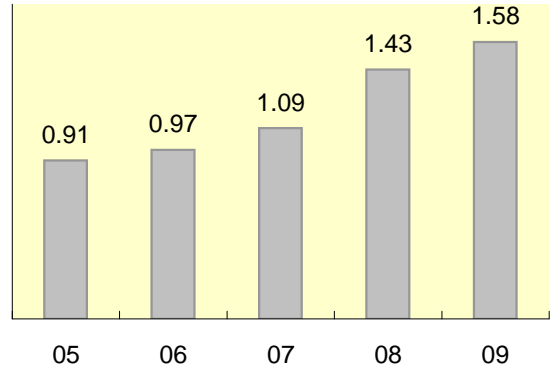
**Energy**

Unit: 1000kl



**CO2 Emission**

Unit: 1000t-CO2



Natural Energy

FY2009

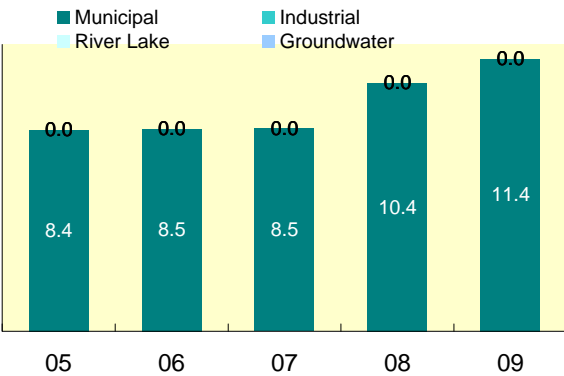
0.00 1000kWh

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>



Circulated water

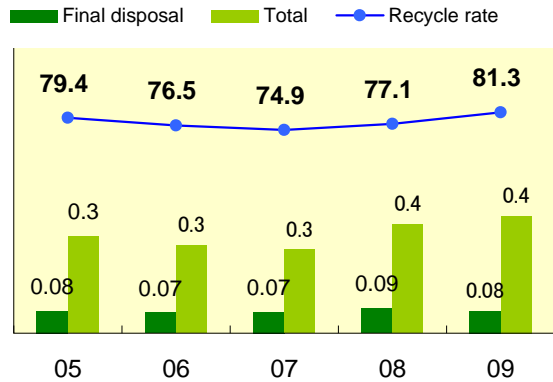
Rain-water

FY2009

0.00 m<sup>3</sup> 0.00 m<sup>3</sup>

**Waste**

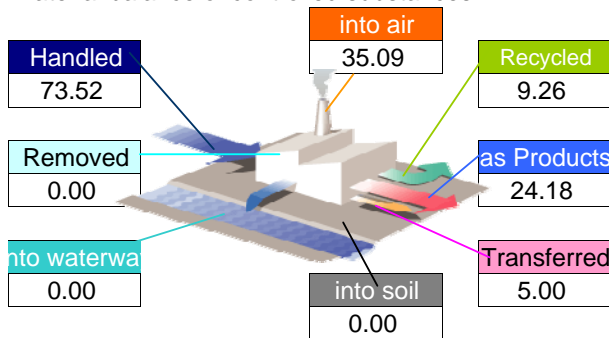
Unit: 1000t, %



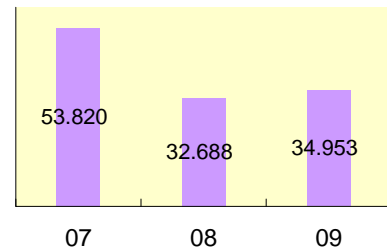
**Chemical substances**

09

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

Handled amount in both our factories together was above 70 tons per year. Main chemical substances released into air are volatile organic substances from thinners, fluxes and adhesives. We do not release any chemical substances into waterways or soils.

**Compliance**

FY2009

**<Air pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	Nm <sup>3</sup> /h	ND			0.00		
					0.00		
					0.00		
NOx	ppm	ND			0.00		
					0.00		
					0.00		
Particulate	g/Nm <sup>3</sup>	Trstena plant - Inset	150.00	5.00	1.80	4.25	1 in 5 years
		Trstena plant - CD p	150.00	5.00	0.91	1.67	1 in 5 years
		Trstena plant - PS p	150.00	5.00	0.95	1.31	1 in 5 years

**<Water pollutant measurement results>**

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	N/A			0.00		
		N/A			0.00		
		N/A			0.00		
BOD	mg/l	N/A			0.00		
		N/A			0.00		
		N/A			0.00		
Nitrogen	mg/l	N/A			0.00		
		N/A			0.00		
		N/A			0.00		
Phosphorus	mg/l	N/A			0.00		
		N/A			0.00		
		N/A			0.00		

**<Noise and vibration>**

	Unit	Measurement Area	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
Noise	dB	DT Inserts A, SPK p	85.00	80.00	80.00	82.00	1 in 2 years
		NT N/A			0.00		
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**

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

Occurrence situation	Countermeasure

**Environmental Policy**

We employees of Panasonic Electronic Devices Slovakia s.r.o. are aware of our proportion of humanity's special responsibility to respect and preserve the sensitive balance of nature, we recognize that there is necessity to reduce negative influence of all the industrial companies to the environment, Within the scope of our efforts to contribute our share as a production company to a better quality of life for all, we shall undertake the protection of the environment into our basic company strategy. We declare our basic principles of protection of the environment and we undertake to keep them:

- 1) We keep all the environmental laws and regulations as minimum standard requirements for environmental protection.
- 2) We reduce or when possible we eliminate the negative influences to the environment by the continual improvement of our environment management system.
- 3) We save the unrecoverable natural resources at the production process of each of our product we favor with water, energies and materials.
- 4) We reduce the production of waste in all our departments and activities; by the strict separation of the waste we obtain re-usable materials.
- 5) We make efforts to maintain and improve environment through the activities of reduction of emissions to the air and replacing substances negatively affecting the environment.
- 6) We observe customer's requirements to decrease amount of hazardous substances in our products.
- 7) We enforce environmental protection rules in cooperation with our suppliers, so their production activity and delivered materials will have minimal negative impact on the environment.
- 8) We acquaint our environmental policy rules to all our employees, customers, suppliers, public and country offices and we seek the open dialogue with all of them.
- 9) Our environmental team accepts proposals for the improvement of the environment protection from each employee and after their judgment we enforce the practical use for the best of them.
- 10) We keep up our environment policy in accordance with STN EN ISO 14001 requirements and we lead appropriate records and documentation about establishment, keeping up and improvement of our environment management system (EMS).
- 11) We determine long-term and short-term targets and we check of their fulfillment regularly.
- 12) We perform the system of regular audits and we regularly control the effectiveness of our environment management system to save his continual improvement.

**Aiming to reduction of environmental impact****Air loss reduction in manufacturing processes**

Electric power accounts for a major share of energy consumption at factories. Our energy saving efforts are focused on production of pressing air. Air consumption is increasing each year and compressors were deemed to be the cause of this worsening trend. Therefore we checked for air losses in manufacturing processes tracing back from consumption to supply and take remedial actions. We reduced air consumption while maintaining the air blow function and performance. We improved blowing of pressed air where possible to necessary intervals according the requirements of machines and testers.

**Use of water based flux in automatic soldering process**

We released more than 25 tons of organic substances to the air in last years. Therefore we introduced use of water based flux in selected production lines to decrease amount of emissions to the air from organic volatile substances. New flux is VOC free. We also improved our fire safety with this step, because a new water based flux is non flammable liquid. We also introduced toluene-free adhesive in new SPK production. We confirmed fulfillment of new lower legal limits for VOC emissions with measurement in September 2007.

**Environmental Communication****November 2008 - Month of energy saving activities.**

We promoted energy saving activities in November as Month of energy saving. We enhanced awareness of our employees for energy saving with repeated staff training. We also explained purpose of energy saving to all our employees together with necessary countermeasures and their effect for environment protection.

**Factory tour conducted by regional and city representatives.**

The factory tour prepared for city mayor and representative of self-governing region presented full compliance with environmental and health and safety laws in Trstena plant. The party looked over production process in new Speaker production and also in our other productions such Control & Drives and Power supplies productions.

**Emergency preparedness and response****About our concept and training plan**

The main danger in our factory represent manipulation with flammable liquids so we regularly train fire safety in our premises. Once a year we practice evacuation and fire fighting procedures.

We also practice manipulation with sorptive materials to prevent any unwanted leakage of chemical materials.

**Case of a training**

April 2008

Evacuation operation team in action (on the left).  
Emergency response team in action (on the right).

