

Address	Tada Village & Mandal ; Nellore District ; AP ; India		
Lot area	30000m <sup>2</sup>	Total floor area	208774m <sup>2</sup>
Establishment day	1982/9	Employees	245persons
ISO14001certification date	1998/4	ISO14001renewed	2007/12
Major Products	Carbon Electrode,		
Environmental CommunicationFY2009			
Information disclosure	1items	visitors on factory tour	23persons
		collaboration with municipality	1items
Contact	Research & Development		TEL: 08623 - 249126



**Message from Compliance Administrator**

PCIN believes that "Our Mission must be based on Co-Existence with the Global Environment and Produce Environment Friendly Products for Preserving the Environment". As a Consumer of various Materials containing variety of Chemical substances though may not be toxic or hazard, the Organization look into the facts that "the impact of a Chemical substance on Environmental Quality is unlimited". Hence the Organization re-considers it's Environmental responsibilities and committed to reduce the Environmental risks with correct understanding of both the usefulness and harmfulness of a Chemical. In line with the above, the Organization is further investigating the Materials and Process, to ensure the Environmental & Product performance in line with OSHA.



Compliance Administrators  
**Mr.K.V.Subba Reddy**

**Main activities in FY2009**

Target	Result
Reduction of Stack Emissions by 3.3% by Up gradation of Process Technology (YP & Tar free)	Reduction in Stack emissions by 1% on overall & Specific reduction in SOx by 8%
Expansion of Screw Extruders in place of Hydraulic Extruders (Direct Recycles Reduction)	Reduction of Process Recycles generations by 1.5%compare to FY 2008
Reduction of Overall Energy consumption by Process Optimization	Reduction in CO2 Emissions by 21 % compare to FY 2008
Improvement of Overall Manufacturing performance as per drastic up and downs in sales	Resources management in line with sales - Resulted in stopping of abnormal up and downs in Inventory

**Products of Environmentally-conscious information**



**Carbon Rods ( Midget Electrodes for Dry Cells)**

The Carbon Rod is used as one of the important component in manufacturing of Leclanche dry batteries. It will be embedded in the Black mix of a Dry cell, serves as a conductor of the electric current from within the cell to it's exterior positive terminal. The Carbon Rod some times called as positive electrode, but it is a misnomer as the true Electrode surface is at the depolarizer where the ionic conduction through the electrolyte changes to electronic conduction through the black mix and Carbon Rod. It is there that the electro Chemical reactions occur. The Carbon Rod also serves as vents for permitting gases generated by chemical reactions, to escape from the Dry cell.

As to the structure of the Carbon Rod, it is extremely important that, low electrical resistivity is must to act as good conductor and ' Paraffinated-Gas permeable Pore' for resist the Electrolyte penetration with limited venting, from Dry cell, which can damage the Positive terminal, shorten the life of Battery.

The Quality up-gradation requirements are ensured by regular updation of Technology and Operational Control Standards which have been certified by the International Standards of Organization

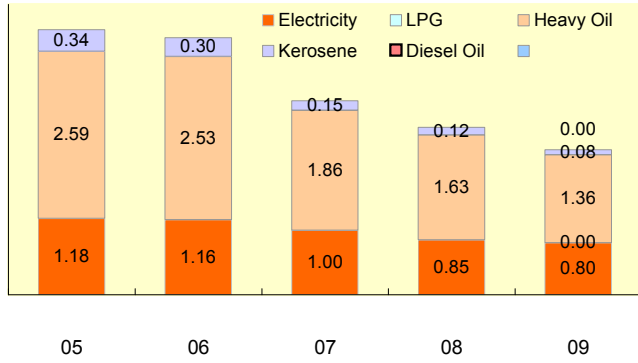
Environmental Quality of Products are ensured in line with RoHS Regulations as well as other Environmental Regulations which are in place of Overseas Battery Manufacturers as well as Consumer's society

**Environmental performance data**

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

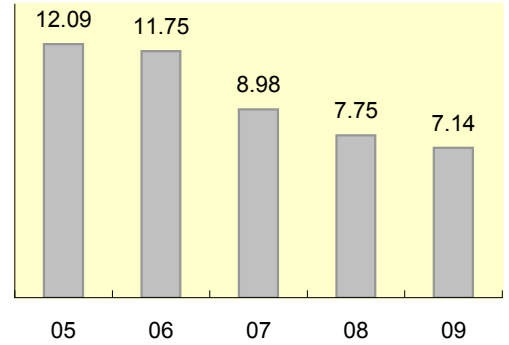
**Energy**

Unit: 1000kl



**CO2 Emission**

Unit: 1000t-CO2

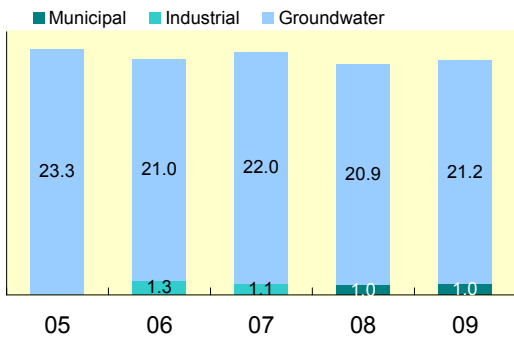


**Calculation standards**

Co2 Emissions Coefficients: Electricity:0.927Kgs/kwh, Heavy Oil:2.710Kgs/Lit, Kerosene:2.489Kgsc02 /Lit, Coke: 2.4Kgs/Kg, Pitch:2.130KgsC02/Kg

**Water**

Unit: 1000m³

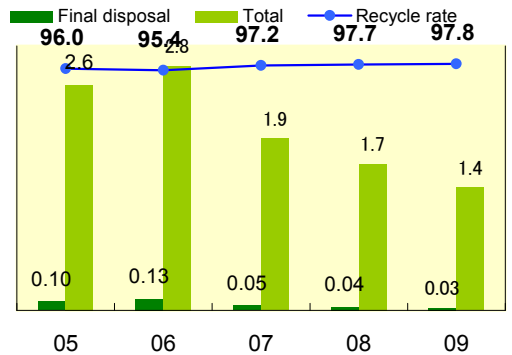


**Circulated water**

10,949.00 m³

**Waste**

Unit: 1000t, %

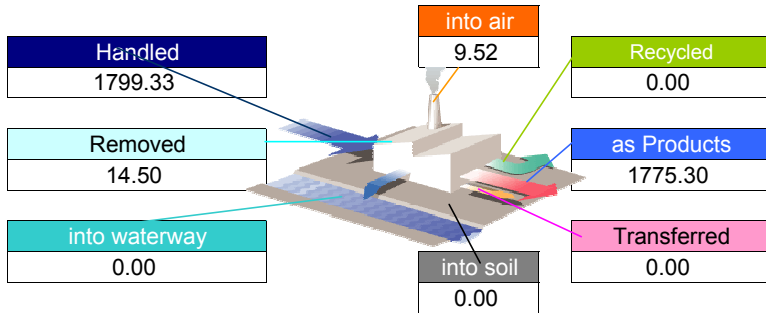


**Chemical substances**

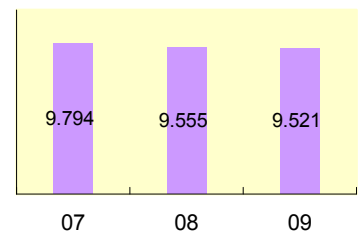
Unit: t

**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 emissions of chemical substances into Air is analyzed for PAHs and Improvement plans are under progress for Removal of Haz Materials from Material composition

## Compliance

FY2009

## &lt;Air pollutant measurement results&gt;

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
SOx	mg/Nm <sup>3</sup>	Tunnel Kiln	N/A	600	561	685	Weekly
		Thermic Fluid Heater	N/A	600	350	500	Monthly
		Power Generators	N/A	600	245	356	Monthly
NOx	mg/Nm <sup>3</sup>	Tunnel Kiln	N/A	450	300	400	Weekly
		Thermic Fluid Heater	N/A	450	300	360	Monthly
		Power Generators	N/A	450	200	260	Monthly
Particulate	mg/Nm <sup>3</sup>	Tunnel Kiln	115	90	69	91	Weekly
		Thermic Fluid Heater	115	90	76	94	Monthly
		Power Generators	115	90	73	85	Monthly

## &lt;Water pollutant measurement results&gt;

	Unit	Facility name	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
COD	mg/l	STP-1	250	100	61	85	Monthly
		STP-2	250	100	66	76	Monthly
BOD	mg/l	STP-2	100	40	11	16	Monthly
		STP-2	100	40	14	18	Monthly
Nitrogen	mg/l	NA					
		NA					
Phosphorus	mg/l	NA					
		NA					

## &lt;Noise and vibration&gt;

	Unit	Measurement Area	Legal limit	Voluntary limit	Average measured	Maximum measured	Measuring frequency
Noise	dB	DT Ambient Air	75.00	75.00	73.00	75.00	Monthly
		NT Ambient Air	70.00	70.00	68.00	70.00	Monthly
Vibration	dB	DT N/A					
		NT N/A					

\*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 be report

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

Occurrence situation	Countermeasure
There is no item to be report	Actions will be initiated based on latest regulations as per provided guidelines.

## Environmental Policy

The Organization is committed to Contribute to the Customer world wide with good Quality of life through supply of high reliable and technologically upgraded products. In this Journey, the Organization has adopted the following Environmental Policies

1. Duly understanding the impact of the Company's activities, through prudent and sustainable use of Resources, reduce emissions, achieve lesser re-cycle and totality manage, Preserve and protect the environment;
2. Ensure the Organization's operations are in compliance with the Statutory and Regulatory requirements.
3. Control Hazardous Chemicals in Products, Materials and Process Wastes as per Local & Global Regulations as well as User Requirements.
4. Review and assess Periodically Environmental status to ensure continuous improvement.
5. Impart Objective based training to employees to improve their skill in line with upgraded technology;
6. Establish Periodical Communication on Environmental performance Status to internal and external interested Parties.

Environmental Slogan

Blue Sky, Clear Water and Lively Earth are determined to Preserve this Globe for Ever

## Aiming to reduction of environmental impact



### a. Quality of Air Emissions

By considering the scenario of National Environmental regulations, the Organization Strive to minimize the toxicity in its Air Emissions through Technology up gradation and succeeded in reduction of SOx generations by 9% and 6% in FY 2007 & FY 2008, compare to FY 2006 and further reduction of 4% is planned by FY 2010

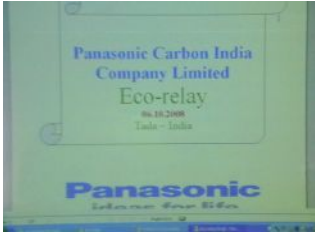
### b. Ambient Air Quality & Manufacturing Work Environment

For improvement of Work Environment and to promote the Ambient Air Quality, the Organization is Planning to promote its EQAS by striving to standardize its manufacturing activities in line with Occupational Safety and Health by FY 2010 explanation,

### c. Survey on VOCs, Ground Water & Asbestos :

To ensure the Legal compliance, the Organization performed on VOCs & Asbestos by taking actions on monitoring and improvement measures. Submission of Compliance Reports to the Concern control Authorities



**Environmental Communication****Eco relay in PCIN**

**Purpose:** The Eco relay event aims at fastening a global corporate environment in which each and every employee voluntarily thinks about how he/she leads the way with Eco ideas and put in to practice while bolstering the unity of all global employees in contribution to harmonious coexistence with the global environment through collected wisdom.

We have organised the Eco relay event on 06.10.2008 to promote and innovative Eco ideas for everybody with an objective to create awareness and highlighted the Panasonic brand image on a global basis.

**Presentation on Environmental Awareness**

To increase the awareness amongst the students presentation for the Environmental related issues like Global warming, Acid rains, Ozone Layer depletion, Global Environmental concerns etc. were explained with details. And also the importance of RoHS (Restriction of Hazardous Substances) and activities carried out in our Panasonic group.

**Tree plantation :**

Tree plantation was done by Mr. Shrikrishna Kulkarni and School students in the factory premises to improve work environment in and around the factory.

**Strive for BAT (Best available Techniques ) for Environment Friendly Manufacturing**

The Organization is striving for BAT in its manufacturing functions, by adopting the system established among Panasonic Carbon Group, to keep competitive services to the customers through CQD supplies as well as to manage the Environmental Operations in line with Internal and External interested Parties.

**5S Promotion & Resources Management**

Inline with the improvement of Work Environment, 5S Systems are reviewed by enhancing the House keeping Standards. Inventory control system is introduced in line with its Eco friendly Resources Management targets.

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

With an Objective of "0" accidents in Operational functions, the Technology & EQMS are regularly updated to achieve "0" Emergency Occurrence. However Scope for Emergency Occurrence is identified and related training programmes are calendared for all concerns. Needful procedures and Communication standards and Charts are displayed at Probable locations

**Emergency Preparedness & Safety :**

Regular Training Programmes are conducted on handling of communication as well as Situation control tools for all related on Emergency Preparedness and response.

**Train up on the Job Skills up gradation for Selfimprovement :**

Provided IT facilities and related resources for all staff members to interact with global tech & operational trends through websites, for improving Job performance of staff & Conducted needful skill Improvement programmes