

Toshiba Infrastructure Systems South America Ltd. Site Report Information

Address: Estrada Velha do Barigui, 10511, Cidade Industrial, Curitiba, Paraná, Brazil

Lot area: 141,466,39 m² Building area: 11,018,74 m² Green ratio: 36,4%

Establishment: 1979 Employees: 310 (as of March 2011)

Major products: Surge Arrester, Medium Voltage Switchgear, Electrical Panels, Disconnecter Switches, Substations, Electrical Panels, Transmission Lines and Protection, Control and Automation Systems

ISO 14001 certified: Apr, 2004 Latest update: Apr, 9th, 2010
(ISO Certificate number: SGA 2509 – Revision 2 – Valid until Apr, 9th, 2013)



Message from Environmental Preservation Chief

TOSHIBA INFRAESTRUTURA AMÉRICA DO SUL LTDA., located in Curitiba, state of Parana, the south region Brazil, designs, manufacture and provide high technology equipment to supply Generation, Transmission, Distribution, Industry and Infrastructure. According to Toshiba's "eco style" and Slogan "**Solutions for your life, caring for the planet's future**", our environmental management is guided by Toshiba's guidelines and we contribute to society and environmental by developing environmental awareness.



Environmental Preservation Chief
Cristina Szemczak da Silva

Major environmental activities in 2010

Environmental Audits/Programs

ISO 14001:2004 Surveillance Audit March, 2010.

E.A.S.T.E.R. Audit completed July, 2010.

Environmental Awareness

•COMMEMORATION OF TREE DAY (SEPTEMBER, 2010)

Awareness of environmental to employees and distribution of tree seedlings

•COMMEMORATION OF THE ENVIRONMENTAL WEEK (JUNE ,2010)

Awareness of environmental to employees about importance the environmental conservation.

Development of products and environmental technologies, Environmental consideration point

The ECP's are not part of TIC CWB product portfolio yet, however, the entire production process undergoes strict environmental controls. Suppliers, raw materials and all waste generated over the activities are monitored and specific controls are set to be avoided any environment impact.

Environmental communication

Internal activities

- Art contest with recyclable materials with employee's children
- Competition for the environmental slogan creation
- Internal campaign to reduce energy and water consumption (stickers and posters "turn off the lights when you leave," "turn off your monitor when not using," "use water rationally", etc.).
- Distribution of awards

INTEGRATED POLICY

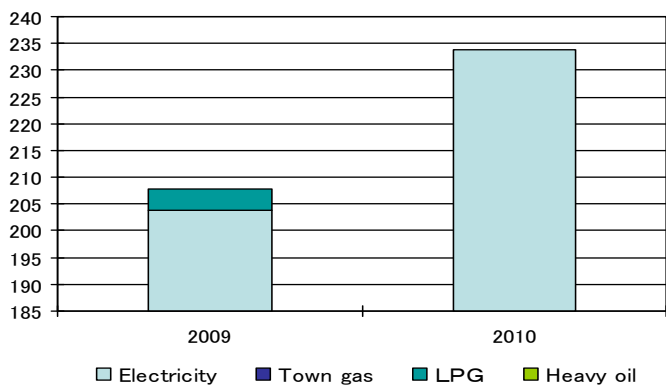
"Toshiba Transmission and Distribution Systems of Brazil Ltda (TSTB), as a member of Toshiba Corporation Group, seeks the sustainable growth and profit of its operation and to contribute for the improvement of the quality of life and social development, through innovation and also, providing excellent systems, products and services to the electrical sector.

Our activities are focused in matching customer needs on management practices and responsible behavior, through the:

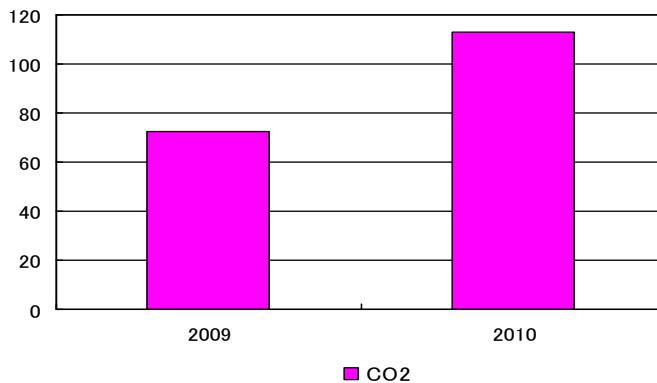
- Commitment to meet legal and other applicable requirements
- Enhancement of knowledge, competences and skills from our expertise
- Reduction on the environmental impacts, prevention of pollution, accidents and injuries
- Continuous improvement of the effectiveness of quality, environment, health and safety management systems".

Environmental load data

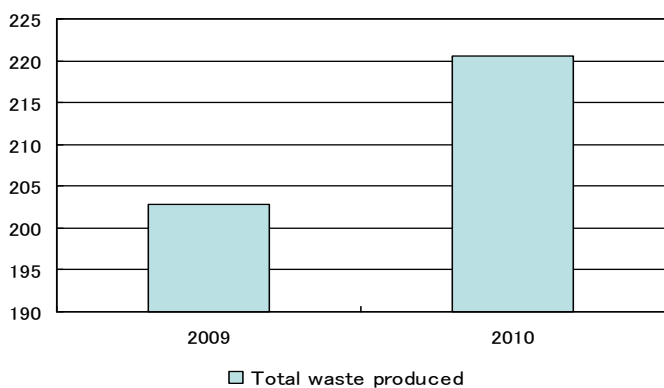
Energy usage (unit: KL)



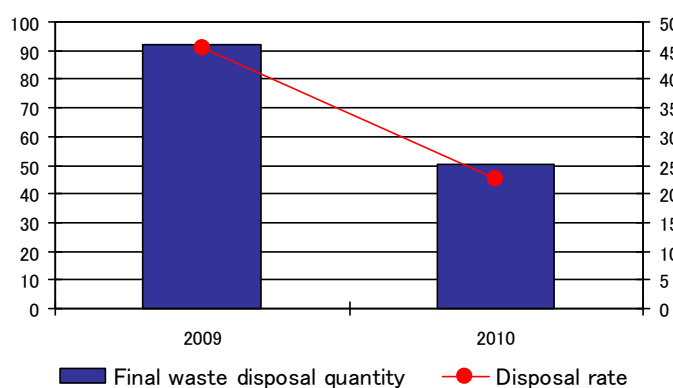
CO2 emission (unit: ton-CO2)



Total waste produced (unit: ton)

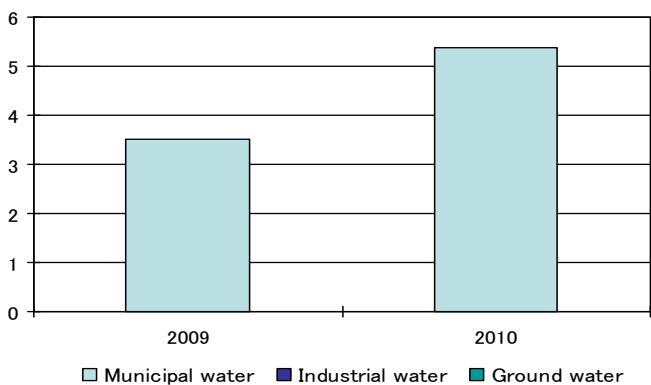


Final waste disposal quantity & disposal rate (unit: ton,%)

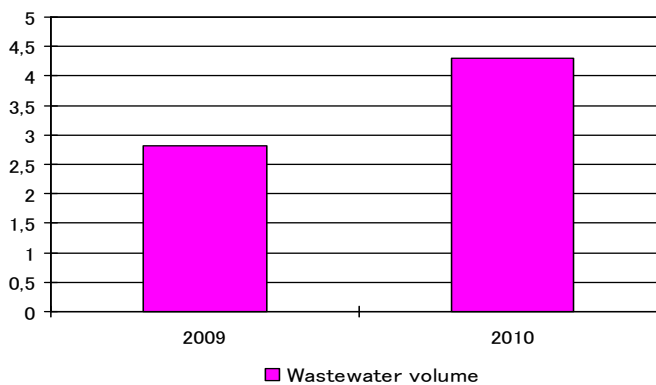


Major wastes: Acid, sludge, metal, glass, plastic, oil, etc.

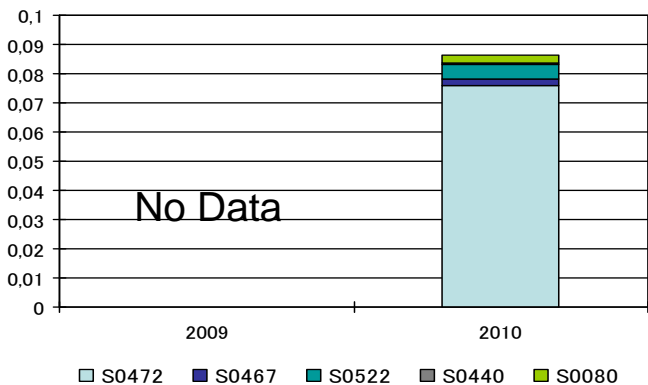
Water usage (unit: 1,000m³)



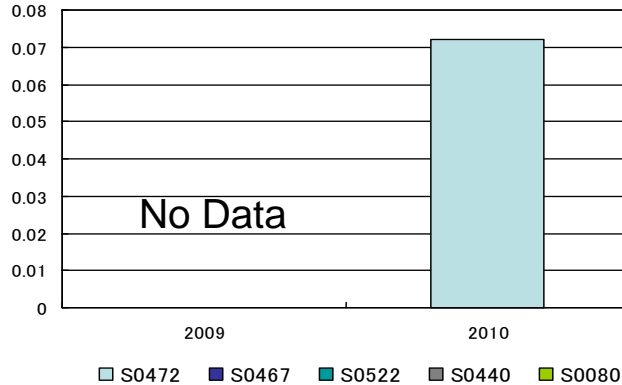
Wastewater volume (unit: 1,000m³)



Handing substances (unit: ton)



Substances volatilized and released to water (unit: ton)



Major chemical substances: Ethyl alcohol, Isopropanol, n-Butane, Hydroperoxide,-methyl-1-phenylethyl, Xylene

Compliance management

Atmospheric measurement results (multi-pipe small-type through flow boiler (city gas): X units)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
NOx (ppm)	Excluded	Excluded	Excluded	Excluded
SOx (Nm3/h)	Excluded	Excluded	Excluded	Excluded
Soot & dust (mg/Nm3)	Excluded	Excluded	Excluded	Excluded

Wastewater measurement results (major results) (XX Facility (acid/alkali surface treatment facility: Wastewater is discharged to rivers (Bando river to Ibo river)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	Excluded	Excluded	Excluded	Excluded
BOD (mg/l)	Excluded	Excluded	Excluded	Excluded
COD (mg/l)	Excluded	Excluded	Excluded	Excluded
SS (mg/l)	Excluded	Excluded	Excluded	Excluded
Nitrogen (mg/l)	Excluded	Excluded	Excluded	Excluded
Fluorine (mg/l)	Excluded	Excluded	Excluded	Excluded

Noise & vibration measurement results (specific facilities (noise: XXX (mech. press), vibration: XXX (mech. press))

	Location: Time	Regulation value	Self-control value	Actual measurement	Measurement frequency
Noise (dB)	Lot boundary: Day	70	N/A	54,2	Once/ year
	Lot boundary: Night	60	N/A	46,2	Once/ year
Vibration (dB)	Lot boundary: Day	Excluded	Excluded	Excluded	Excluded
	Lot boundary: Night	Excluded	Excluded	Excluded	Excluded

Other measurement results (Sewage Water Law: Major results)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	5.0 – 9.0	Excluded	6.8	Once/2 months
BOD (mg/l)	50	Excluded	30,5	Once/2 months
SS (mg/l)	Absence	Excluded	Absence	Once/2 months

Environmental accidents, administrative advices and complaints

	State
Environmental accident	None
Environmental problem around the factory and in the local area	None
Administrative advice or direction	None
Complaint from neighboring residents	None