

TOSHIBA INFRAESTRUTURA AMÉRICA DO SUL LTDA Site Report Information

Address: Rodovia BR-381, n° : 3045 - Contagem, Minas Gerais, Brazil

Lot area: 37,339 m², Building area: 30,290 m², Green ratio: 3.1%

Establishment: October of 1968, Employees: 910 (as of March 2011)

Major products: Power Transformers, Reactors, Distribution Transformers, Voltage Regulators.

ISO 14001 certified: Jan,20th, 1999, Latest update: Abr, 07th, 2011
ISO Certificate number: BR007702-1 – Valid until May, 03th, 2013



Message from Environmental Preservation Chief

TOSHIBA INFRAESTRUTURA AMÉRICA DO SUL LTDA. , located in Contagem, state of Minas Gerais, the southeastern region Brazil, designs, manufactures and delivers electrical equipment in accordance with the customer's needs and the environmental law requirement. At the same time that contributes to providing high quality electricity, TIC-BHZ promotes the awareness of the people about the importance of the "Environmental Preservation". Through these actions and other environmental works, TIC-BHZ assures a good environmental performance. Clean production, guaranteed environmental preservation. TIC-BHZ in harmony with the environment.



Environmental Preservation Chief
Robson Tadeu L. Alves (Vice-President Director)

Major environmental activities in 2010

CLEAN PRODUCTION

Qualification of a company to development of the diagnostics for environmental improvements and reduction of the consumption (electricity, water and materials)

PAMPULHA LAKE COMMITTEE - Environmental preservation.

Contribution for preservation of the Pampulha's basin and rivers of the city

COMMEMORATION OF THE WORLD DAY OF THE WATER (MARCH OF 2010)

Presentation to employees and students of the community about the preservation of water

VOLUNTEER DAY (DECEMBER OF 2010)

Realization of environmental lectures to parents and students of the community, showing the importance of the environment.

DONATION OF PAPER, CARDBOARD AND PLASTIC FOR RECYCLE ENTITY OF DEVOID PEOPLE (SINCE 2000).

Partnership with ASMARE and donation some of recyclable waste to this entity (paper, pressboard, plastic and glass).

COMMEMORATION OF THE ENVIRONMENTAL WEEK (JUNE OF 2010)

Awareness of environmental to employees of the TTDB and the school students about importance the environmental conservation.

SQUARE GARDEN ADOPTION (SINCE 2000)

Maintenance, cleanness and organization of the adopted area (Green area) of approximately 10,000 m², in Contagem City.

COMMEMORATION OF TREE DAY (SEPTEMBER OF 2010)

Awareness of environmental to employees of the TTDB and school students about importance of tree to the planet.

Development of products and environmental technologies, Environmental consideration point

- Development of project to reduce the number of radiators in transformers. This change will reduce the amount of insulating oil used in equipments.
- Change the design to reduce the amount of insulating oil used in voltage regulators.
- Change design to reduce the amount of wood used in packaging of the transformers.- Development of project to use vegetable oil in replace the mineral oil (Step voltage regulator).
- Changing the of silica with cobalt (blue) by silica without cobalt (orange)
- Design to reduction the amount of insulating oil used in the Step voltage regulators
- Changing of the surface protection using from Hexavalent Chromium to Trivalent Chromium.

Environmental communication

- Annual report about atmospheric discharge (chimney), wastewater discharge, waste generation and noise generation to be sent to environmental agency the state.
- Participation in the environmental commission of Federacy of Industries of Minas Gerais State .
- Participation in activities for preservation, recovery of areas of the region of Pampulha (Pampulha Lake), in Belo Horizonte City.
- Environmental partnership with school of the city, in Contagem City (Julia kubitschek School).

Environmental Policy**INTEGRATED MANAGEMENT POLICY:
QUALITY, ENVIRONMENT AND
OCCUPATIONAL (people) HEALTH AND SAFETY**

TOSHIBA INFRAESTRUTURA AMÉRICA DO SUL LTDA., located in Contagem City, State of Minas Gerais, has the commitment to meet the needs of customers, quota holders, employees, partners and society, continuously improving its performance in the manufacture of transformers and in the delivery of services.

To guarantee these principles, it was established the following guidelines:

➤1 - To be a competitive and profitable company, meeting the needs and expectations of customers, quotaholders and other related parties, in compliance with legal requirements and applicable laws. ;

➤2 - To continuously improve the effectiveness of Quality, Environment, Labor Health and Safety Management System aiming for the improved quality of products and services, the reduction of environmental impact, the prevention of labor accidents, injuries and diseases ;

➤3 - To promote its business operations by managing the risks related to the Labor Health and Safety, involving chemical, physical, ergonomic and mechanical hazards, with emphasis on operation with electricity, labor in high places, machines, equipment and facilities ;

➤4 - To endeavor for the efficient use of energy and natural resources, as well as to manage the industrial residues, to promote consumption reduction, the reuse and recycling of materials and pollution prevention ;

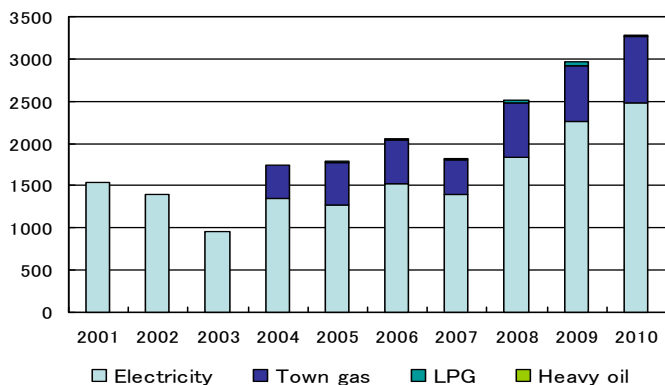
➤5 – To respect the worker in pursuit of his human and professional growth, as well as the community, developing social and environmental responsibility ;

➤6 – To work in partnership with suppliers for the continuous development in search of quality, the improvement of environmental performance, labor health and safety .

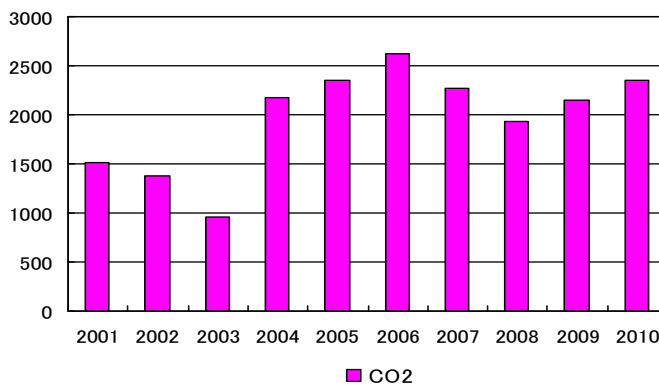
➤7 – To promote and implement new technologies in its products and process .

Environmental load data

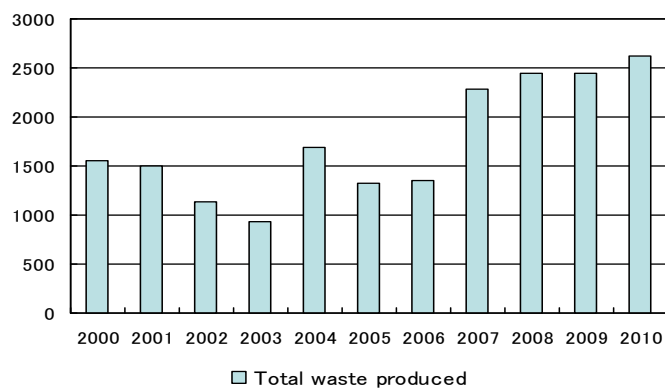
Energy usage (unit: KL)



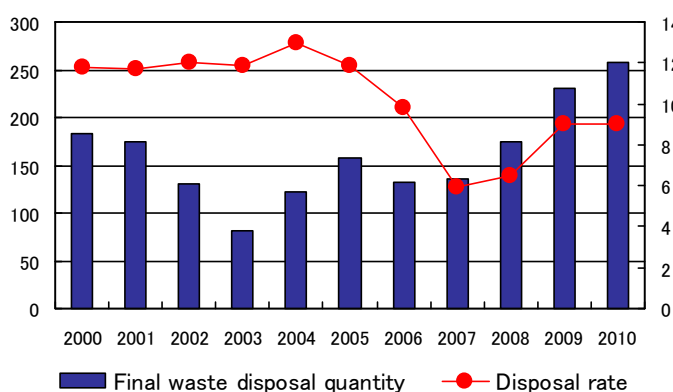
CO2 emission (unit: ton-CO2)



Total waste produced (unit: ton)

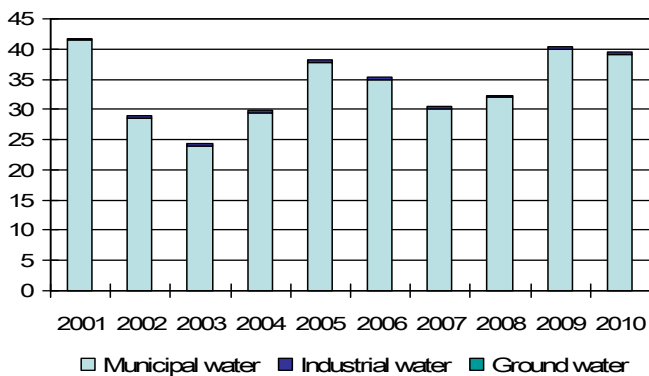


Final waste disposal quantity & disposal rate (unit: ton,%)

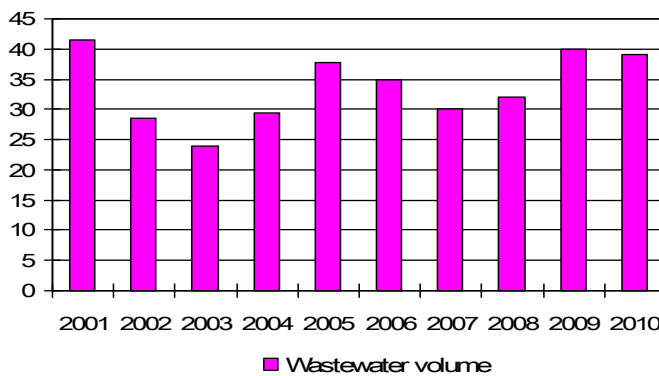


Major wastes: sludge, metal, plastic, oil, etc.

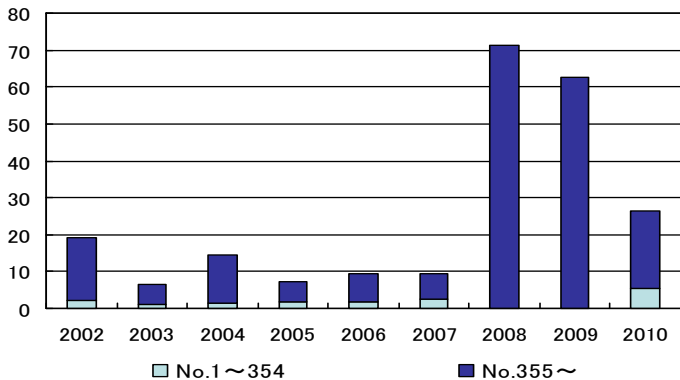
Water usage (unit: 1,000m³)



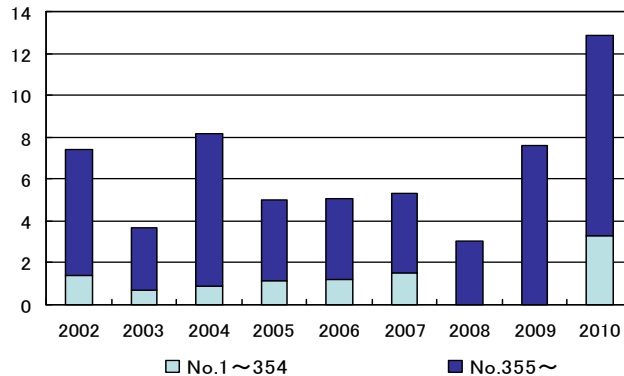
Wastewater volume (unit: 1,000m³)



Handing substances (unit: ton)



Substances volatilized and released to water (unit: ton)



Major chemical substances: Ethyl alcohol / Isoparaffin / Toluene and Xylene (Quantity contained in the paint and solvent).

Compliance management

Atmospheric measurement results (scrubber, gas-type boiler, paint booth)

	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)	150	26	8,7	Once/year

Wastewater measurement results (Plating facility (phosphoric acid treatment facility: Wastewater is discharged to public sewage line.

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	6.0 – 10	6,5 – 8,5	6,7	Daily
BOD (mg/l)	No limits (contract COPASA)	57	11	Once/month
COD (mg/l)	No limits (contract COPASA)	171	42	Once/month
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: compressor)

	Location: Time	Regulation value	Self-control value	Actual measurement	Measurement frequency
Noise (dB)	Lot boundary: Day	70	N/A	67	Semester
	Lot boundary: Night	60	N/A	56	Semester
Vibration (dB)	Lot boundary: Day	Excluded	Excluded	Excluded	Excluded
	Lot boundary: Night	Excluded	Excluded	Excluded	Excluded

Other measurement results

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	6.0 – 10	6,5 – 8,5	7,9	Daily
BOD (mg/l)	No limits (contract COPASA)	57	50	Once/month
SS (mg/l)	Excluded	Excluded	Excluded	Excluded

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