

B-e-6 Environmental Accounting (2)

Environment

Environmental Protection Benefits

Scope: HORIBA, Ltd. head office/factory/11 sales offices and it's training center, and HORIBA Techno Service Co., Ltd. 24 service stations
Accounting period: January 1, 2011 to December 31, 2011

Environmental Protection Benefits				
Category	Environmental Performance Indicator (unit)	2010 (standard)	2011	Difference from Standard (Environmental protection benefits)
Benefits in terms of resources invested	Total energy input (GJ)	147,121	141,404	△ 5,717 *1
	Power consumption (GJ)	115,837	112,450	△ 3,387 *1
	City gas consumption (GJ)	21,144	18,917	△ 2,227 *1
	Fuels (diesel, kerosene and gasoline)	10,140	10,037	△ 103 *1
	Core production elements input (iron, SUS, aluminum, copper and glass) (t)	1,229	915	△ 314
	Recycled resource input (t) Office paper and packing materials (cardboard, wood and polystyrene)	387	355	△ 32
	Water input (km ³)	51	45	△ 6
	Groundwater input (km ³)	16	17	1
	City water input (km ³)	35	28	△ 7
Benefits in terms of environmental impact and waste	Greenhouse gas emissions (t-CO ₂)	5,644	5,398	△ 246 *2
	Greenhouse gas emissions through electric energy consumption (t-CO ₂)	3,780	3,665	△ 115 *2
	Greenhouse gas emissions through city gas consumption (t-CO ₂)	1,183	1,058	△ 125 *2
	Greenhouse gas emissions through fuel consumption (t-CO ₂)	680	673	△ 7 *2
	Total waste generated (t)	302	348	46
	Final waste at landfill (t)	6	1	△ 5 *3
	Total water drained (km ³)	48	45	△ 3
	Water quality (BOD/COD) (mg/L)	N/A	N/A	-
	NOx and SOx emissions (t)	N/A	N/A	-
	Malodor (max. density) (mg/L)	N/A	N/A	-

Environmental Protection Benefits				
Category	Environmental Performance Indicator (unit)	2010 (standard)	2011	Difference from Standard (Environmental protection benefits)
Benefits in terms of goods and services generated	Energy consumption during operation (GJ) (Total of eco-friendly energysaving products)	45,289	54,759	9,470 *1
	Greenhouse gas emissions during operation (t-CO ₂) (Total of eco-friendly energy-saving products)	1,754	2,121	367 *2
	Hazardous substances emitted during disposal of used products and recycling of containers and packaging (t)	14	6	△ 8
	Amount of used products, containers and packaging recycled (t)	2	2	0
	Amount of product packing materials used (t)	361	329	△ 32
	Other benefits	Greenhouse gas emissions from transporting products (t-CO ₂)	132	138
Products transported (t-km)		1,785,988	1,858,294	72,306
Soil contamination (m ²)		0	0	-
Noise (dB) *at night		55	54	△ 1
Vibration (dB) *in evening		Less than 30	40	-

*1: GJ (gigajoule): Converted and calculated at 0.00976 GJ/kWh (from the April 1, 2006 public notification of the Energy Conservation Center).

*2: CO₂ emissions factor: Calculated assuming 0.378 kg of CO₂ per kWh, which is the average of all electric companies in Japan. The official value of the Kansai Electric Power Company is used for the Kyoto District.

*3: Only for HORIBA, Ltd. head office/factory

Economic Benefits from Environmental Protection Activities

(Millions of yen)

Economic Benefits from Environmental Protection Activities (Substantial Benefits)		
	Effect	Amount
Profit	Sales of solder residue, metal waste, etc. generated in production processes	3.7
	Gain on sale of recycled products	50.1
Total		53.8