Material Balance

Environment

The material balance represents an environmental assessment of Casio's energysaving and resource-saving manufacturing practices. Casio is always striving to minimize its energy and resource inputs as well as its

What is a material balance?

A material balance provides an overall picture of a company's environmental impact. It shows the amount of energy and resources a company uses in its business activities (inputs into business activities), the amount of environmentally harmful substances (including waste) it emits, and the amount of output it produces and sells (outputs from its business activities).

Fiscal 2010 performance

In fiscal 2010, Casio's consolidated sales contracted about 17% from the previous fiscal year due to the lingering global economic downturn. As a result, many of the input and output items on the fiscal 2010 material balance also declined year on year.

Due to the drop in production, many of the per-unit-of-production figures relating to Casio's Environmental Action Plan deteriorated. In particular, since there was a large decrease in output at production sites in Japan, results per unit of production fell substantially for these sites.

This fiscal year, the electronic components business (Kochi Casio, etc.) and the cellular phone business were removed from Casio's scope of consolidation, and substantial environmental performance improvements are expected. Furthermore, improvements are being promoted within the group by shifting to production equipment with better energy efficiency and streamlining production processes. Material balance in business activities (fiscal 2010)



*1. Ozone depleting substances have been fully phased out.

*2. Parts and materials include consumables, such as toner cartridges. *3. Recycled waste includes thermally recycled material.

*4. Product distribution is consigned to transportation companies.

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Material Balance (Electronics Segment)

nputs				Outputs
Energy 17,556 kl crude oil equivalent Electricity 59,843 million kWh Fuel 2,290 kl crude oil equivalent Water resources 0.4769 million m³ SF ₆ (sulfur hexafluoride) 0 tons Greenhouse gases other than SF ₆ 0.7 tons VOC 0 tons	+	R&D/design	+	Greenhouse gases CO2 emissions 44,146 tons-CO2 SFs emissions 0 equivalent Other greenhouse gas emissions 950.3 tons-CO2 equivalent Air pollutants*1 NOX 0.9 tons SOX 1.7 tons Dust 0.2 tons VOC emissions 0 tons to atmosphere Wastewater 0.4223 m ³ BOD 13 tons PRTR substance Releases / transfers 0 tons
Packaging material 11,906 tons	+	•		Releases 0 tons Transfers 0 tons Waste generated, etc. 3,150 tons
Rainwater 2,600 m ³ Recycled industrial 45,000 m ³ water 9 tons	*	Manufacture	þ	Waste 1,536 tons Valuables 1,614 tons Landfill disposal 343 tons Recycled waste ³ 2,731 tons
			ogiștie	:5
			-	CO2 emissions
		Logistics ^{*4} sales	→ Sale	Total products sold 90 million
		•		
Electricity 24.730 million kWh	+		+	CO ₂ emissions 10,429 tons-CO ₂
Recovered	l	•		Recycled
System equipment	•	Recovery	+	System equipment

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Material Balance (Electronic Components Segment)

	Greenhouse gases
R&D/design	- CO2 emissions 43,528 tonc:CO2 - SFe emissions 10,405 equivale - Other greenhouse gas emissions 0 tons:CO2 equivale - Air pollutants*1 10 tons - NOX 10 tons - SOX 2.2 tons - Dust 0.2 tons VOC emissions 33 tons to atmosphere Wastewater 1.4306 million - BOD 16 tons
Manufacture	PRTR substance Releases / transfers
Logistics ⁴ sales	Total products sold
	Procurement Manufacture