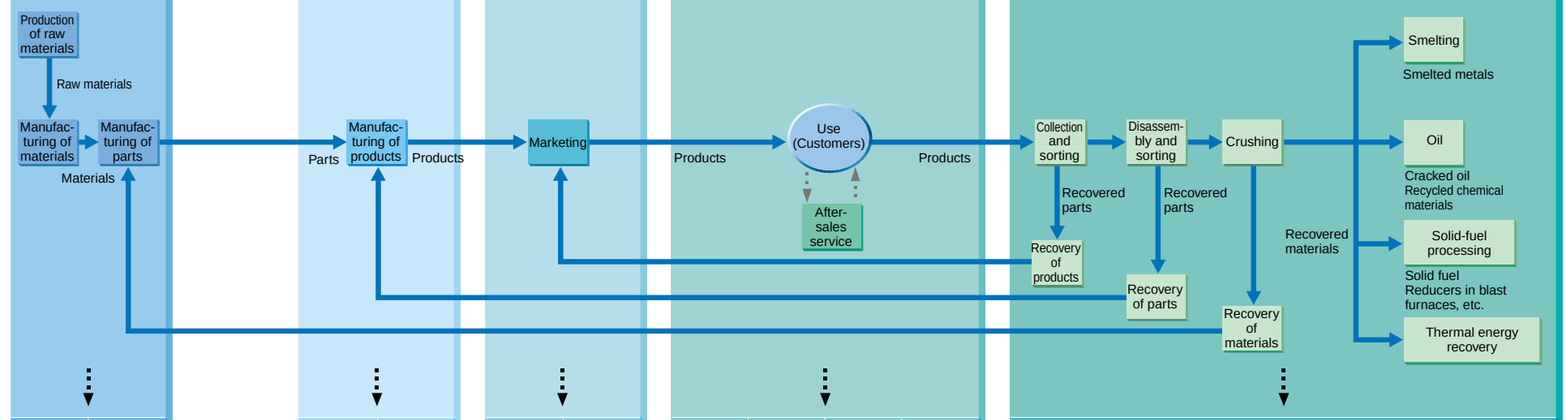
Eco Balance of Overall Business Activities

Reviewed by BVQI (4)

				Procurement of Materials and Parts		Manufacturing		Logistics and Marketing		Use and Maintenance				Collection and Recycling
				Upstream	Chemical substances contained in products	Production sites	Non-production sites	Transportation	Marketing	Use: Electric power	Use: Paper	Maintenance: Maintenance	Maintenance: Manufacturing of maintenance parts	Recycling and disposal
Input	Energy consumption	Electric power, heavy oil, etc.	[TJ]	1,275		3,412	559	271	650	1,521	10,121	291	121	15
	Resource consumption	Crude oil	[thousands of tons]	7										
		Ore	[thousands of tons]	20										
		Coal	[thousands of tons]	10										
		Other	[thousands of tons]	2							394			
	Water consumption	Tap water/well water/industrial water	[thousands of tons]			2,981	187						5	
	Chemical substances (lead, hexavalent chromium, PVC, etc.)		[t]		15	0							0	
Output	Chemical substances (toluene, dichloromethane, etc.)		[t]			331			47			3		
	Environmental impact emission	NOx	[t]			35	4	35	39	48	585	17	1	0
		SOx	[t]			10	0	15	15	38	2,139	7	2	0
		CO_2	[thousands of tons]	73		148	23	16	37	57	746	16	8	0
		CH4	[t]	968		355	35	80	0	100		72		
		BOD	[t]			16	0	0					0	
		COD	[t]			18	0						0	
Environmental Accounting	Influence on the environment	Influence on human health, the ecosystem, abiotic resources, and biodiversity	[ELU]	1.45E+08	4.71E+07	1.50E+08	1.53E+07	5.07E+06	1.13E+07	2.38E+07	2.03E+08	5.66E+06	2.34E+06	2.07E+05
	Converted into money value	Social costs	[millions of yen]	16,082	5,215	16,570	1,695	561	1,254	2,638	22,501	626	259	23
		Percentage		23.85%	7.74%	24.58%	2.52%	0.83%	1.86%	3.91%	33.37%	0.93%	0.38%	0.03%
	Costs	Resource and energy costs	[millions of yen]	69,567		4,193	462	88	819			397		
		Environmental conservation costs	[millions of yen]	40		2,153	2,103	72	1,792	464		143		2,253
	Effects	Economic benefits	[millions of yen]			509	92	113	3,613			352		1,421
		Effects on environmental conservation (to reduce social costs)	[millions of yen]			37	1	4	44	561		9		2,114
	Indicators for each item	Ratio of eco effect (REE) [(total economic benefit + total social cost reduction amount)/total environmental conservation cost]				0.25	0.04	1.60	2.04	1.21		2.53		1.57
		Ratio of eco profit (REP) [total economic benefit/ total environmental conservation cost]				0.24	0.04	1.55	2.02			2.46		0.63
	Overall indicators	Eco-efficiency index (EEI) [sales (yen)/ environmental impact amount (ELU)]		875.59										
		Ratio of sales to social cost (sales/total social cost)		7.92										



Major Activities (Environmental Action Plan from Fiscal 2002)

* See page 33.

- Promotion of green procurement and green purchasing
- Promotion of the prevention of products from being polluted
- Increased quantity of reused parts in products

- Reduction in the amount of energy used at business sites
- Reduction of pollution at business sites
- Promotion of resource conservation and recycling at business sites

- Promotion of green marketing
- Increased number of resource-recirculating products

- Promotion of the development of energy-saving products
- Development of technologies useful in reducing the environmental impact of paper

See page 35 (Environmental Technologies and Products Development) for the reduction in environmental impact while machines are operating.

- Improvement in the collection rate for used products and toner cartridges
- Improvement in the resource recovery rate for used products and toner cartridges

"E+n" means "$\times 10^n$."
e.g.) $1.45E+08 = 1.45 \times 10^8$