Environmental Accounting (Detailed Data: FY2010-FY2014)

Environmental Conservation Effects

Environmental Conservation Encods														
Content of Effect		C		In Japan	_				Outside Japan					
				FY2010	FY2011	FY2012	FY2013	FY2014	FY2010	FY2011	FY2012	FY2013	FY2014	
from business area into	Effects related to resource input into business operations	Total energy input	(kL: converted into crude oil quantity)	10,382	10,875	10,676	10,715	10,483	15,015	15,067	15,169	17,051	18,838	
		Water input	m³	103,722	109,047	113,451	104,890	101,060	621,840	582,401	608,441	612,757	664,084	
	Effects related to environmental		CO ₂ (t-CO ₂ /year)	16,841	16,317	16,033*2	16,033	15,659	24,903	25,626	25,545	28,034	31,085	
	impact and waste released from		NOx (kg/year)	2,000	1,958	2,023	2,031	2,046	3,647	4,081	3,147	3,329	3,603	
	business operations		SOx (kg/year)	8.6 ^{*1}	9	9	8	8	111	221	72	81	88	
			Amount of waste generation (t)	2,154	2,362	2,023	1,937	2,302	3,900	4,087	4,073	4,362	4,851	
			Landfill waste (t)	0	0	0	0	0	8	16	2	5	2	

Economic Effects	Economic Effects Involving Environmental Conservation Effects (Unit: millions of Yen)											
Content of Effect		In Japan					Outside Japan					
		FY2010	FY2011	FY2012	FY2013	FY2014	FY2010	FY2011	FY2012	FY2013	FY2014	
Income	Operating income from recycling of waste generated from main business operations	10.1	8.5	4.7	6.8	6.9	33.7	39.9	38.0	41.5	55.6	
Cost reduction	Reduction in energy cost by energy-saving	3.6	6.4	1.1	1.4	3.0	97.3	30.7	24.3	26.3	25.3	
	Reduction in waste treatment cost due to resource-saving and recycling	31.3	37.9	27.5	29.3	31.7	63.1	13.9	51.1	31.9	11.3	
Other	Publicity effects, such as newspaper reporting, calculated in terms of advertising expenses	2.2	1.4	0.8	3.7	2.3	10.7	10.1	16.5	3.1	17.2	
Total	•	47.1	54.3	34.0	41.2	43.9	204.8	94.6	130.0	102.9	109.4	

Environmental Conservation Costs

Environmental C	(Unit: millions of Yen)														
Classification		Details of Main Implementation and the Effects	In Japan	· · · · · · · · · · · · · · · · · · ·											
			Investment	Amount				Expense Amount							
			FY2010	FY2011	FY2012	FY2013	FY2014	FY2010	FY2011	FY2012	FY2013	FY2014			
Business area costs: Costs for reducing direct environmental impacts occurring within the facility area		8	30	8	113	124	128	260	181	167	168				
Breakdown:	(1) Pollution prevention cost	Pollution prevention measures (including air, water, vibration and noise)	0	5	0	3	4	24	32	44	29	20			
	(2) Global environmental conservation cost	Global warming prevention (energy-saving) measures	8	21	8	109	120	20	62	60	61	63			
	(3) Resource circulation cost	Recycling and reduction in waste generation	0	4	1	1	0	83	166	76	77	85			
Upstream/downstream cost: Costs incurred to reduce environmental impact when procuring parts and materials and after selling products		Green procurement activities; collection and recycling of used products/consumables	0	0	0	5	0	123	113	114	99	95			
Administration cost: Costs incurred by activities that contribute indirectly to reducing the environmental impact of business operations		Establishment, administration and maintenance of the ISO 14001 system; environmental training for employees: disclosure of environmental information; greening and cleanup of manufacturing facilities and their surrounding areas	91	179	179	98	155	295	313	328	323	358			
R&D cost: R&D costs for reducing environmental impact		Development of eco-conscious products and technologies; implementation of product environmental assessments; design improvement	54	19	14	2	58	109	154	124	132	145			
Social activity cost: Costs of environmental conservation that is not directly linked with corporate activities		Support for environmental conservation groups and organizations; support for environmental activities by local citizens; information services	0	0	0	11	0	13	13	10	12	13			
Cost to deal with environmental damage: Costs incurred to restore the natural environment (including soil remediation)		Soil contamination surveys; soil remediation	0	0	0	0	0	3	4	2	3	3			
Total	<u> </u>		153	228	201	229	337	671	857	760	737	782			

											(Unit: mil	lions of Yen)		
Classification		Details of Main Implementation and the Effects	Outside Japan											
			Investment	Amount				Expense Amount						
			FY2010	FY2011	FY2012	FY2013	FY2014	FY2010	FY2011	FY2012	FY2013	FY2014		
1.Business area costs	Costs for reducing direct environment	ntal impacts occurring within the facility area	109	88	53	169	137	138	100	92	70	165		
Breakdown:	(1) Pollution prevention cost	Pollution prevention measures (including air, water, vibration and noise)	0	26	0	0	0	21	27	34	34	84		
	(2) Global environmental conservation cost	Global warming prevention (energy-saving) measures	102	62	53	169	137	95	50	34	5	25		
	(3) Resource circulation cost	Recycling and reduction in waste generation	7	0	0	0	0	22	22	23	30	56		
Upstream/downstream cost: Costs incurred to reduce environmental impact when procuring parts and materials and after selling products		Green procurement activities; collection and recycling of used products/consumables	0	0	0	0	0	2	1	1	1	2		
Administration cost: Costs incurred by activities that contribute indirectly to reducing the environmental impact of business operations		Establishment, administration and maintenance of the ISO 14001 system; environmental training for employees: disclosure of environmental information; greening and cleanup of manufacturing facilities and their surrounding areas	0	0	0	0	0	10	15	26	42	55		
R&D cost: R&D costs for reducing environmental impact		Development of eco-conscious products and technologies; implementation of product environmental assessments; design improvement	0	0	0	0	0	0	0	0	0	0		
Social activity cost: Costs of environmental conservation that is not directly linked with corporate activities		Support for environmental conservation groups and organizations; support for environmental activities by local citizens; information services	0	0	0	0	0	3	3	2	3	11		
Cost to deal with environmental damage: Costs incurred to restore the natural environment (including soil remediation)		Soil contamination surveys; soil remediation	0	0	0	0	0	0	0	0	0	0		

Scope of aggregation

Aggregation Scope	Target Period	Name of Site	
		In Japan	Outside Japan
FY2010	April 1, 2010 ~ March 31, 2011	Head office, Mizuho Manufacturing Facility, Hoshizaki Manufacturing Facility, Minato Manufacturing Facility, Momozono Manufacturing Facility, Kariya Manufacturing Facility, Research & Development Center, Logistics Center	Brother Industries (U.K.) Ltd., Brother Industries (Slovakia) s.r.o., Taiwan Brother Industries, Ltd., Zhuhai Brother Industries, Co., Ltd., Brother Machinery Xian Co., Ltd. ²² , Brother Industries (Shenzhen), Ltd., Brother Technology (Shenzhen) Ltd., Brother Industries Technology (M) Sdn. Bhd., Brother Industries (Vietnam) Ltd.
FY2011	April 1, 2011 ~ March 31, 2012	Head office, Mizuho Manufacturing Facility, Hoshizaki Manufacturing Facility, Minato Manufacturing Facility, Momozono Manufacturing Facility, Rariya Manufacturing Facility, Research & Development Center, Logistics Center	Brother Industries (U.K.) Ltd., Brother Industries (Slovakia) s.r.o., Taiwan Brother Industries, Ltd., Zhuhai Brother Industries, Co., Ltd., Brother Machinery Xian Co., Ltd. ^{2,3} , Brother Industries (Shenzhen), Ltd., Brother Technology (Shenzhen) Ltd., Brother Industries Technology (M) Sdn. Bhd., Brother Industries (Vietnam) Ltd.
FY2012	April 1, 2012 ~ March 31, 2013	Head office, Mizuho Manufacturing Facility, Hoshizaki Manufacturing Facility, Minato Manufacturing Facility, Momozono Manufacturing Facility, Rariya Manufacturing Facility, Research & Development Center, Logistics Center	Brother Industries (U.K.) Ltd., Brother Industries (Slovakia) s.r.o., Taiwan Brother Industries, Ltd., Zhuhai Brother Industries, Co., Ltd., Brother Machinery Xian Co., Ltd. ²² , Brother Industries (Shenzhen), Ltd., Brother Technology (Shenzhen) Ltd., Brother Industries Technology (M) Sdn. Bhd., Brother Industries (Vietnam) Ltd.
FY2013	April 1, 2013 ~ March 31, 2014	Head office, Mizuho Manufacturing Facility, Hoshizaki Manufacturing Facility, Minato Manufacturing Facility, Momozono Manufacturing Facility, Rariya Manufacturing Facility, Research & Development Center, Logistics Center	Brother Industries (U.K.) Ltd., Brother Industries (Slovakia) s.r.o., Taiwan Brother Industries, Ltd., Zhuhai Brother Industries, Co., Ltd., Brother Machinery Xian Co., Ltd. ²² , Brother Industries (Shenzhen), Ltd., Brother Technology (Shenzhen) Ltd., Brother Industries Technology (M) Sdn. Bhd., Brother Industries (Vietnam) Ltd., Brother Industries Saigon, Ltd.
FY2014	April 1, 2014 ~ March 31, 2015	Head office, Mizuho Manufacturing Facility, Hoshizaki Manufacturing Facility, Minato Manufacturing Facility, Momozono Manufacturing Facility, Rariya Manufacturing Facility, Research & Development Center, Logistics Center	Brother Industries (U.K.) Ltd., Brother Industries (Slovakia) s.r.o., Taiwan Brother Industries, Ltd., Zhuhai Brother Industries, Co., Ltd., Brother Machinery Xian Co., Ltd. ²² , Brother Industries (Shenzhen), Ltd., Brother Technology (M) Sdn. Bhd., Brother Industries (Vietnam) Ltd., Brother Industries Technology (M) Sdn. Bhd., Brother Industries (Vietnam) Ltd., Brother Industries Saigon, Ltd., Brother Machinery Vietnam Co., Ltd.

For Logistics Center, only "Environmental Conservation Effects" was aggregated.

2: Xian Typical Brother Industries, Co., Ltd. (whose name was changed to Xian Brother Industries, Co. Ltd. in October 2009) merged with Brother Sewing Machine Xian Co., Ltd. in 2010 to become Brother Machinery Xian Co., Ltd.

3: Brother Sewing Machine (Shanghai) Co., Ltd. transferred its business to Brother Machinery Xian Co., Ltd. in 2010.