

## Environment Preservation Costs

(Unit: million yen)

Classification	Items	Non-consolidated				NGK Spark Plug Group*					
		Investment		Expense		Investment		Expense			
		2009	2010	2009	2010	2009	2010	2009	2010		
Costs within the business area	Pollution prevention cost	Air/water pollution prevention and noise reduction		53	29	693	419	55	53	990	860
	Global environmental conservation cost	Global warming prevention, energy conservation		30	11	208	304	41	32	239	347
	Resource circulation cost	Effective resource utilization, industrial waste treatment/disposal		36	17	454	374	37	24	581	507
		Subtotal		120	57	1,355	1,096	133	109	1,810	1,714
Upstream & downstream cost	Employee environmental education, EMS construction and operation		0	0	3	0	0	0	0	5	5
Management activity cost	Employee environmental education, EMS construction and operation		4	25	364	323	4	25	435	400	
R&D cost	R&D of products promoting environment preservation		132	372	3,950	6,004	132	372	3,950	6,004	
Social activity cost	Nature protection, afforestation, environmental ads		0	1	176	152	1	1	185	158	
Environment damage correction cost	Repair of soil contamination, disrupted nature		0	0	6	6	0	0	6	6	
Other costs	-		0	0	1	0	0	0	1	10	
		Total		256	454	5,854	7,581	271	507	6,391	8,297

●Any inconsistency between an aggregate of all itemized figures and a "Total" figure is due to rounding of fractions.

\*Excluding Nittoku Alpha Service Co., Ltd.

## Value of Environmental Preservation Impact

(Unit: million yen)

Area of recognized effect		Non-consolidated
Revenue	Revenue generated from the recycling of waste generated in operations or used products	222
Cost saving	Energy cost saving achieved from energy conservation efforts	45
	Reduction of water expenses through water saving	2
	Waste disposal cost saving achieved by resource conservation and recycling efforts	5
	Total	274

## Quantity of Environmental Preservation Impact

Effect measured in the business area	Classification	Types of effect	Non-consolidated			NGK Spark Plug Group		
			2009	2010	Difference from the previous fiscal year	2009	2010	Difference from the previous fiscal year
Effect measured with respect to resource input into operations	Energy consumption	Purchased electricity (GWh)	218.40	232.64	14.24	330.21	369.62	39.41
		Gas (million m <sup>3</sup> )	12.83	13.91	1.08	14.39	16.21	1.82
		LPG (tons)	3,700	3,313	-387	8,312	8,015	-297
		Heavy oil A (kL)	36	0	-36	36	0	-36
	Water consumption	Tap water (m <sup>3</sup> )	751,864	772,868	21,004	938,113	990,315	-52,202
		Well water (m <sup>3</sup> )	570,580	412,697	-157,883	850,653	879,603	-28,950
	Quantity of PRTR law-regulated substances handled (tons)		494	671	177	706	917	211
Effect measured with respect to environmental load and waste from business activities	CO2 emission from energy consumption (tons)		116,078	122,294	6,216	170,853	187,547	16,694
	Recycled plant wastewater *(m <sup>3</sup> )		940,985	607,824	-333,161	1,125,536	848,629	-276,907
	Waste	Effectively utilized mass (tons)	12,839	12,757	-82	16,026	16,678	652
		Buried, incineration (tons)	98	126	28	111	141	30
PRTR law-regulated substances released into air and water (tons)		6.5	3.5	-3	131	141	11	

\*Definition of recycled plant wastewater: Recycled water is defined as water that is reused after treatment of waste water.