

Research and Development Center

Address: 1134-2 Gongendo, Saitama-shi,
Saitama-ken

Start of operations: April 1969

Area: 86,200 m²

Employees: 102

Cosmo Oil Lubricants Co., Ltd.

Address: 4-9-25, Shibaura, Minato-ku, Tokyo

Start of operations: April 1988

Employees: 181

Business Activities: Manufacturing, research
and sales of lubricating oils and other products

Research and Development Center

Regulated pollutants

Water pollutants	Pollutant	Regulation	Type of control	Standard	Actual performance	
					Maximum	Average
	COD (mg/l)	Water Pollution Control Law	Concentration	160 (120)	14.3	8.8
	SS (mg/l)	Prefectural ordinance	Concentration	60 (50)	11	7
	Oil content (mg/l)	Water Pollution Control Law	Concentration	5	1	Below measurement threshold
	Nitrogen (mg/l)	Water Pollution Control Law	Concentration	120 (60)	7	6
	Phosphorus (mg/l)	Water Pollution Control Law	Concentration	10 (8)	0.8	0.8
	Phenol (mg/l)	Prefectural ordinance	Concentration	1	Below measurement threshold	

Figures in parentheses = daily average

Research and Development Center, Cosmo Oil Lubricants Co., Ltd.

Environmental accounting

Item	Environmental costs (million yen)	
	Investments	Expenditures
1. Business area costs	0	0
Global environment costs	0	0
Pollution prevention costs	0	0
Resource circulation costs	0	0
2. Upstream/downstream costs	0	92
Green procurement costs	0	92
Product environmental impact reduction costs	0	0
Product sulfur reduction costs	0	0
Gasoline	0	0
Naphtha	0	0
Jet fuel	0	0
Kerosene	0	0
Diesel fuel	0	0
Heavy fuel oil A	0	0
Heavy fuel oil C	0	0
LPG	0	0
Cost of substituting toxic substances in gasoline	0	0
Cost of reducing aromatics in petrochemical products	0	0
3. Management activity costs	0	0
4. Research and development costs	0	1,751
5. Social activity costs	0	0
Total	0	1,843

Cost of purchasing recycled paper 0 (million yen)

Economic effects (81 million yen)

Effects of R&D (royalty revenues, etc.) : 81

Head office and branch offices

Address: 1-1-1, Shibaura, Minato-ku, Tokyo, Japan

Employees: 711 (head office and branch offices)

(as of March 2003)

	(million yen)
	FY2002
1 Environmental costs	
Cost of purchasing recycled paper	8
Donations related to environmental activities	31
Cost of making environmental report	37
2 Economic effects (head office)	
Electricity cost	3