

Cosmo Research & Development Center (as of March 31, 2005)

Address	1134-2 Gongendo, Satte, Saitama
Start-up	April 1969
Total area	86,281 m ²
Company Staffs	101



About Cosmo Research & Development Center

In a unique environment which straddles both Saitama and Ibaraki prefectures, the Center engages in petroleum business research such as quality improvements in petroleum products or performance improvements in catalysts for refinery use, as well as in research development and business support in areas such as new energy and environmental technology.

- **Environmental activities:** While smaller in scale, the Center handles the same equipment and hazardous materials as do the refineries, and therefore, much effort is poured into environmental preservation through related internal education programs and group activities. Efforts are also being made to reduce industrial waste in real numbers.
- **Safety activities:** Since its establishment in 1969, the Center has had no accidents for hazardous materials or high pressure gas. In this year in particular, risk assessment of research facilities and conduct have been implemented to formulate measures for handling hazardous factors. Regular comprehensive disaster prevention drills are held to prepare for the unlikely occurrence of accident.
- **Activities for the regional community:** As a business that has made the pledge to improve its environmental friendliness as outlined in the Saitama prefecture program "Sainokuni Eco Up", the Center engages in information disclosure so as to respond to the requests of the people in the community. Company staffs of the entire company contributes to the beautification of the surrounding area as well. For example, we engage in heartfelt cleanup efforts twice annually around the Gongendo area which is known for its cherry blossoms.



Mitsugu Yumoto
General Manager
Research & Development
Center

Regulated Pollutants

Pollutant	Standard	Actual Performance in Fiscal 2004	
		Maximum	Average
COD (mg/L)	160 (120)	16.8	10.1
SS (mg/L)	60 (50)	14	9
Oil Content (mg/L)	5	1	Below measurement threshold
Nitrogen (mg/L)	120 (60)	7	6
Phosphorus (mg/L)	16 (8)	0.9	0.8
Phenols (mg/L)	1	Below measurement threshold	

Values in () are daily average.

Environmental Accounting

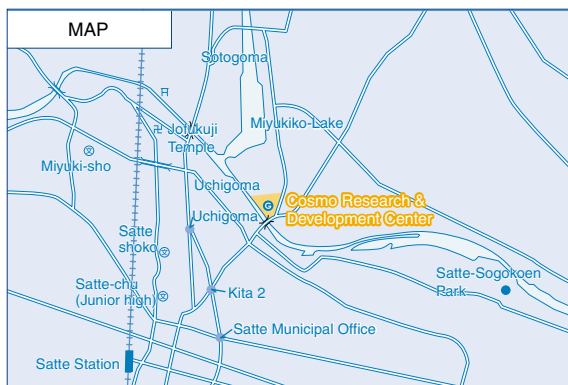
Environmental conservation costs (million yen)

Category and Key Activity	Fiscal 2004	
	Investment	Cost
1. Business area: Pollution prevention	0	0
Global environmental conservation	0	0
Resource circulation	0	0
2. Upstream/downstream: Green purchasing	0	0
Reduction of environmental impact of products	0	0
Sulfur reduction of products	0	0
Substitution of toxic substances in gasoline	0	0
3. Administration	0	0
4. Research and development	133	1,088
5. Social activity	0	0
Total	133	1,088

Purchasing recycled paper: 1 million yen

Environmental Conservation benefits

Item	Fiscal 2004
Benefit of research and development (royalty)	12
Total	12



Number of Staff holding Environmental Qualifications

Air pollution control manager	4
Water pollution control manager	7
Dioxin pollution control manager	1
Hazardous materials officer (Class A & B)	80
High-pressure gas production safety manager (Class A & B)	40
Specially controlled industrial waste manager	1
Engineering manager for disposal facilities of industrial waste	1
Environmental Certified Measurer	2
Boiler operator (1st & 2nd grade)	8