Cosmo Matsuyama Oil Co., Ltd. (as of March 31, 2005)

Address	3-580 Okaga, Matsuyama, Ehime	
Start-up	February 1944	
Total area	691,874 m²	
Company Staffs	104	
ISO 9001	November 14, 1997	
ISO 14001	December 28, 1998	



- About the Cosmo Matsuyama Oil

Cosmo Matsuyama Oil is situated on the eastern side of the National Park of Seto Inland Sea and its core business is the production and sale of petroleum products and petroleum solvents. It provides a stable supply of products to users in various parts of Western Japan, and a portion of its products are exported to South Korea, China, and Taiwan through the Maruzen Oil and Chemicals Co., Ltd.

- Environmental activities: In the area of aromatic agents, Cosmo Matsuyama Oil is developing environmentally compatible products which have a small environmental impact. In addition, for purposes of conserving energy, it uses an inverter for the boiler's combustion ventilator, and by reevaluating operational management, fuel consumption is decreasing.
- Safety activities: With "In the tradition of our safe culture, continue to maintain our accident free record", as being our primary objective, Cosmo Matsuyama Oil has had no accident since 1983 for 21 years. In addition, it has developed a system for reporting minor concerns and worrisome situations, thereby cultivating a culture of awareness towards accident prevention and sensitivity towards dangers.
- Activities for the regional community: With "promotion of environmental safety that is in harmony with society" as one of the primary management objectives, Cosmo Matsuyama Oil aims to be a company that is loved by the community for the considerations it makes concerning the environment and safety. Cosmo Matsuyama Oil keeps cooperation with the neighboring community and participation in the annual events (such as the summer festival, other festivals, respect for the elderly day, the year end celebration, etc.).



Shoji Yoshida President Cosmo Matsuyama Oil

Environmental Activities

Energy conservation Introduction of the "motor inverter control (HDRIVE method)", etc.

Health and Safety Activities

- Preventative measures Developed methods for reporting minor concerns and worrisome situations
- Results Continued record of no accidents or disasters (21 years)

Regional Communication Activities

- Participation in the local summer festival and respect for the elderly event
- Participation in campaign around the train stations of the Hokujo Railway
- Participation in events that promote neighborly interaction (cleaning of the highway in front of the company 4 times annually), etc.

MAP	Port of Matsuyama
	Ferry landing
	Mitsuhama
	ITEM _T Ehime
© 6	smo Matsuyama <mark>©1</mark> 🔯 🗴
	Bentenyama Tunnel
	Kitayoshida cho
	Matsuyama Air Port
	⊗

Number of visitors to the factory in Fiscal 2004	5 visits 162 people
No accident record (as of December 2004)	6,732,000 hours
PCB custody status	High voltage transformers 1 units Others

Number of Staff holding Environmental Qualifications		
Air pollution control manager	10	
Water pollution control manager	11	
Noise pollution control manager	1	
Vibration pollution control manager	1	
Dioxin pollution control manager	1	
Hazardous materials officer (Class A & B)	113	
High-pressure gas production safety manager (Class A & B)		
Qualified person for heat management	6	
Qualified person for electricity management	2	
Specially controlled industrial waste manager	1	
Engineering manager for disposal facilities of industrial waste	3	
Boiler operator (Special grade)	1	
Boiler operator (1st & 2nd grade)	94	

- Regulated Pollutants

₽i		0111	Actual Performance in Fiscal 2		
		Standard	Maximum	Average	
pollu	NOx (m ³ N/hour; total pollutant load control)	_	16.20	12.49	
tan	SOx (m3N/hour; total pollutant load control)	208	65.53	49.34	
nts	Particulate (boiler 3HB; g/m³N)	0.17	0.05	0.04	

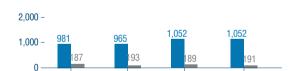
		Standard	Actual Performance in Fiscal 2004		
	Pollutalit	Standard	Maximum	Average	
	COD (kg/day; total pollutant load control)	361.5	27.6	7.1	
Water	COD (mg/L)	15 (10)	4.9	2.7	
et	SS (mg/L)	20	6.0	2.0	
pollutants	Oil Content (mg/L)	2	Below measure	ment threshold	
uta	Nitrogen (kg/day; total pollutant load control)	192.5	11.0	5.2	
l its	Nitrogen (mg/L)	120 (60)	0.78	0.55	
	Phosphorus (kg/day; total pollutant load control)	24.39	1.53	0.52	
	Phosphorus (mg/L)	16 (8)	0.11	0.09	
	Phenols (mg/L)	0.3	Below measure	ment threshold	

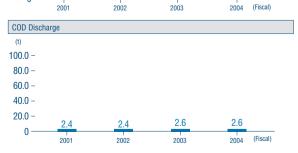
Values in () are daily average.

Environmental Performance (energy, etc.)

Energy Consumption (1,000kl-crude oil) 1,000 -800 -600 -400 -200 59 58 63 63 0 2001 2004 (Fiscal) 2002 2003

Sulfur Oxide (SOx) and Nitrogen Oxide (NOx) Emissions ■SOx Emissions ■NOx Emissions





Industrial Waste Generated Generated Landfill

30,000 -20,000 -

3,000 -

10,000 -

0 316115 96 649517 42 286242 24 641615 8

- Environmental Performance (PRTR)

PRTR listed substances		Releases				
FN I N IISTEU SUDSTAITUES			Water		Total	Hallsters
Ethyl benzene	kg/year	3,300	2.6	0	3,303	1.0
Xylene	kg/year	12,000	2.8	0	12,003	5.1
1,3,5-trimethylbenzene	kg/year	270	4.9	0	275	1.0
Toluene	kg/year	20,000	16	0	20,016	2.5
Benzene	kg/year	5,000	2.4	0	5,002	0.1
Ethylene glycol	kg/year	65	0	0	65	0
1,2-dichloroethane	kg/year	2,400	0	0	2,400	0
Phenol	kg/year	68	1.5	0	70	0.3

^{*} In addition to above, we treat 2-aminoethanol over 1 thousand kg per year, the release and transfer volume are 0 kg per year.

Environmental Accounting

70 0
70
0
•
3
0
549
(0)
(432)
(117)
41
0
0
663

Purchasing recycled paper: 1 million yen

Economic benefit (million yen)	0
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	m	Reduction (year-on-year)
		Impact
1. Benefits corresponding to v	vorksite costs	
Resources input into business	activities	
Energy input		- 6 (TJ
Water input		- 106 (10001
Related to environmental impa	acts and wastes	
Emissions to air:	CO2	- 1 (1000t-CO ₂
	SOx	0 (1
	NOx	- 2 (1
	Benzene	- 0.30 (1
Emissions to water:	COD	0.00 (1
Industrial waste :	Generated	- 355 (1
	Recycled	- 373 (1
	Landfill	16 (1
2. Benefits related to upstream	n and downstream costs	
Related to goods and services		
Reducing sulfur content of	of products	(potential SOx: t
High o	ctane gasoline	
Regula	ar gasoline	
Napht	ha	-
Jet fue	el oil	
Keros	ene	
Diesel	fuel	
Heavy	fuel oil A	-3
Heavy	fuel oil C	20
LPG		
Total		17
Reducing benzene in gasoline		- 54 (1
Reducing aromatics in petrochemical products		- 1,983 (k
CO2 emissions from product use		20 (1,000t-CO2