Cosmo Matsuyama Oil Co., Ltd. as of 31 March. 2004

Address:	3-580 Okaga, Matsuyama-shi, Ehime-ken
Start-up:	February 1944
Total area:	663,049m ²
Employees:	104
ISO 9001:	November 14, 1997
ISO 14001:	December 28, 1998



About Cosmo Matsuyama Oil Co., Ltd.

Located in a coastal district of West Shikoku by Seto inland sea, proud of its beautiful archipelagic view, our company is venturing into unique lines of business such as tank lease business, provision of electricity and steam to the nearby corporations, real estate lease business, golf practice range business and land-based abalone farming. With "coexistence with nature and local community" as our main operational target, our company is endeavoring to contribute to the prosperity of the local economy and paying attention to the environment and safety issues. Aiming to become a corporation loved by the local people and companies, we are endeavoring to contribute to the local development and revitalization. For this, we have built good relationships with seven local groups through cooperation and participation in local regular annual events such as festivals, athletic meet, recreational meeting for the aged, year-end party, etc. and with five member groups of the local fisheries cooperative association through regular information exchanges in light of the basic concept of coexistence and coprosperity. We are also implementing various activities at the factory level. For example, our factories are participating in "Adopt a road program", which is promoted by the government, and regularly im-

plementing clean-up activities on the nearby roads.

We will continue endeavoring to reinforce our corporate social responsibility (CSR) management as well as to become an environmentally advanced member of Cosmo Oil group.

Communication activity

- Exchanges with local corporations (10 corporations)
- Exchanges with the local fisheries cooperative association
- · Cherry blossom viewing party (April), Bon festival dance (August)
- Clean-up campaign around Imabari castle (October)
- "Ehime fureai road campaign" (Clean-up of the prefectural roads around our head office, 4 times in the year), etc.



Shoji Yoshida

Cosmo Matsuyama Oil

President

Number of staff holding environmental qualifications

Air pollution control manager	12
Water pollution control manager	13
Noise pollution control manager	1
Vibration pollution control manager	1
Hazardous materials officer (Class A & B)	115
High-pressure gas production safety manager (Class A & B)	94
Qualified person for heat management	8
Qualified person for electricity management	2
Engineering manager for disposal facilities of industrial waste	3
Boiler operator (Special grade)	2
Boiler operator (1st & 2nd grade)	92

Number of refinery visitors in FY2003	2 times, 87 visitors
No accident record (total hours, as of Dec. 2003)	6,553,000 hours
PCB custody	None

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Regulated pollutants

s	Pollutant	Standard	Actual Performance in FY 2003			
tant	ronutant	Stalluaru		Average		
- III	NOx (m ³ N/hour)	-	16.20	12.60		
ir p	SOx (m ³ N/hour; total pollutant load control)	208	66.81	50.17		
A	Particulate (boiler; g/m ³ N)	0.17	0.04	0.04		
			Actual Performance in FY 2003			
	Pollutant		Maximum	Average		
nts	COD (kg/day; total pollutant load control)	363.3	25.1	7.1		
uta	COD (mg/L)	15 (10)	6.0	2.6		
d	SS (mg/L)	20	7	3		
ater	Oil Content (mg/L)	2	Below measurement thresh			
Wa	Nitrogen (mg/L)	120 (60)	0.99	0.60		
	Phosphorus (mg/L)	16 (8)	0.18	0.12		
	Phenols (mg/L)	0.3	Below measurement thres			
			Values in ()	ara dailu avaraga		

Energy consumption Consumption (1,000kl-crude oil) 1,000 -800 -600 -400 -200 61 59 58 63 0 2000 2001 2002 2003 (FY) CO₂ emissions Emissions (1,000t-CO2) 2,500 -2,000 -1,500 -1,000 -500 -158 160 152 149 0 2000 2001 2002 2003 (FY) Sulfur oxide (SOx) and nitrogen oxide (NOx) emissions Emissions: SOx NOx (t) 3,000 2,000 -1,052 1.005 981 965 1,000 -201 187 193 189 0 2000 2001 2002 2003 (FY) COD discharge Discharge (t) 100.0 -80.0 -60.0 -40.0 -20.0 -2.6 2.4 24 0 2000 2001 2002 2003 (FY) Industrial waste Generated Recycled Lndfill (t) 30,000 20,000 -10,000 -

> Environmental performance (energy, etc.)



DDTD listed substances		Transform				
PRIR listed substances	Air	Water	Soil	Total	Transfers	
Ethyl benzene	kg/year	2,300	0.5	0	2,301	0
Xylene	kg/year	11,000	3	0	11,003	0.1
1,3,5-trimethyl benzene	kg/year	290	22	0	312	0.3
Toluene	kg/year	20,000	13	0	20,013	0
Benzene	kg/year	4,700	0	0	4,700	0
Ethylene glycol	kg/year	75	0	0	75	0
1,2-dichloroethane	kg/year	5,300	0	0	5,300	0
Phenol	kg/year	68	0	0	68	0

Environmental accounting

Livitoninental Costs (minion yen)							
	liam	FY 2003					
	Itelli						
Business area	Pollution prevention	0	81				
	Global environmental conservation	0	0				
	Resource recycling	0	2				
Up/Down-stream	Green Purchasing	0	0				
	Reduction of environmental impact of products	3	506				
	Sulfur reduction of products	0	0				
	Substitution of toxic substances in gasoline	3	394				
	Reducing aromatics in petrochemical pruducts	0	112				
Management activit	ly	0	39				
Research and devel	0	0					
Social activity	0	0					
Total		3	628				
Purchasing requeled paper: 0 million you							

Purchasing recycled paper: 0 million yen

Economic benefits (million yen)

0 million yen

Environmental benefits					
		FY 2003			
		Reduction (year-on-year)			
		Impact			
Business area					
Reduced resource	s input into business activities				
Energy input		-184 (TJ)			
Water input		-53 (1,000t)			
Reduced emission	s and waste generation				
Emissions to air:	CO2	-12 (1,000t-CO2)			
	SOx	-87 (t)			
	NOx	4 (t)			
	Benzene	-0.10 (t)			
Emissions to wate	r: COD	-0.20 (t)			
Industrial waste :	Generation	363 (t)			
	Recycled	275 (t)			
	Landfill	18 (t)			
Up/Down-stream b	enefits				
Reduced environm	iental impact of products				
Reduced sulfur	content in products	(potential SOx: t)			
	High octane gasoline	0			
	Regular gasoline	0			
	Naphtha	4			
	Jet fuel oil	13			
	Kerosene	0			
	Diesel fuel	-1			
	Heavy fuel oil A	22			
	Heavy fuel oil C	-228			
	LPG	0			
	Total	-190			
Reducing benz	ene in gasoline	42 (t)			
Reducing arom	atics in petrochemical pruducts	-390 (kl)			
CO2 emissions	from product use	-64 (1,000t-CO ₂)			

	473 182 136	<u>316 115 96</u>	649 517 42	286 242 24
0-	2000	2001	2002	2003 (FY)