

Environmental Data by Domestic Manufacturing Facility

Overview	Manufacturing facility	Awazu Plant (established in 1921)	Osaka Plant (established in 1952)	Oyama Plant (established in 1962)
	Location	Komatsu, Ishikawa Prefecture	Hirakata, Osaka Prefecture	Oyama, Tochigi Prefecture
	Main products	Small and midsize bulldozers; small hydraulic excavators; mini, small, and midsize wheel loaders; large presses; tunnel machinery; armored vehicles, etc.	Large bulldozers, midsize and large hydraulic excavators, mobile recycling machinery (crushers, soil stabilizers, tub grinders, etc.)	Engines for construction/industrial machinery, diesel generators, hydraulic equipment, excimer lasers, etc.
	Site/building area (1,000 m ²)	796/173	554/157	594/193
	Number of employees	3,928	2,785	2,466
	Date of ISO14001 certification acquisition	September 1997	July 1997	May 1997

*The number of employees includes those working for Komatsu affiliates on the premises.

*Established year means as Komatsu Group.

Compliance Conditions to Major Regulations	Air										
	Item	Unit	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value
	Nitrogen oxides (NOx)	ppm	Boiler	180	110	Boiler	150	12.7	Diesel engine	950	830
			Heating furnace	180	38	Metal furnace	180	37.9	Gas turbine	70	20
		ppm	Diesel engine	950	790	Paint drying furnace	230	8.0			
						Compressor	300	8.1			
	Sulfur oxides (SOx)	—	K-value regulation	17.5	2.17	Regulation of total emissions (m ³ N)	2.616	0.002	K-value regulation	7.0	2.84
	Soot and dust	g/m ³ N	Boiler	0.3	0.002	Boiler	0.03	0.001	Diesel engine	0.1	0.049
			Heating furnace	0.2	0.001	Metal furnace	0.1	0.013	Gas turbine	0.05	Less than 0.001
		g/m ³ N	Diesel engine	0.1	0.026	Paint drying furnace	0.1	0.002			
						Compressor	0.08	0.014			

*Regulated values are in accordance with the Air Pollution Control Law and local regulations.

Compliance Conditions to Major Regulations	Wastewater																	
	Item	Regulated value according to the Water Pollution Control Law Unit	Regulated value				Actual value				Regulated value				Actual value			
			Regulated value	Maximum	Minimum	Average	Regulated value	Maximum	Minimum	Average	Regulated value	Maximum	Minimum	Average				
	pH	5.8-8.6	5.8-8.6	7.4	6.0	6.6	5.8-8.6	7.6	7.2	7.3	5.8-8.6	7.4	7.1	7.3				
	BOD	160 mg/l	80	12	0.8	3.2	25	4.1	1.0	2.4	25	11.2	3.7	7.8				
	COD	160 mg/l	80	22.0	2.3	7.1	25	5.3	2.6	4.0	25	15.6	4.6	11.3				
	Suspended substances (SS)	200 mg/l	120	10.0	1.0	3.7	80	7.6	0.8	3.3	50	14.5	1	8.7				
	Mineral oils	5 mg/l	5	ND	ND	ND	3	0.6	ND	0.4	5	0.5	ND	0.5				
	Copper	3 mg/l	3	0.05	0.05	0.05	3	ND	ND	ND	3	ND	ND	ND				
	Zinc	5 mg/l	5	0.19	ND	0.10	5	0.07	ND	0.04	5	ND	ND	ND				
	Nitrogen	120 mg/l	120	17	1.9	5.8	120	9.2	2.9	6.05	20	5.5	2.5	4.0				
	Phosphorus	16 mg/l	16	2.5	ND	0.6	16	0.57	0.06	0.32	2	0.4	0.2	0.3				
	Cadmium	0.1 mg/l	0.1	ND	ND	ND	0.01	ND	ND	ND	0.1	ND	ND	ND				
Lead	0.1 mg/l	0.1	ND	ND	ND	0.01	ND	ND	ND	0.1	ND	ND	ND					
Chromium (VI)	0.5 mg/l	0.5	ND	ND	ND	0.05	ND	ND	ND	0.1	ND	ND	ND					
Trichloroethylene	0.3 mg/l	0.3	ND	ND	ND	0.03	ND	ND	ND	0.3	ND	ND	ND					
Tetrachloroethylene	0.1 mg/l	0.1	ND	ND	ND	0.01	0.0017	0.0009	0.0013	0.1	ND	ND	ND					
Dichloromethane	0.2 mg/l	0.2	ND	ND	ND	0.02	ND	ND	ND	0.2	—	—	—					
1,1,1-trichloroethane	3 mg/l	3	0.0008	ND	0.0006	1	0.0017	ND	0.0011	3	ND	ND	ND					

*Regulated values are in accordance with the Water Pollution Control Law and local regulations. *ND ("not detected") indicates a value below the lower limit of detection.

*ND is considered to be the lower limit of detection when calculating the average. *Other items are confirmed to be below the regulated value.

Major Performance	Environmental impact											
	Item	Actual value		Item	Actual value		Item	Actual value				
	Total CO ₂ emissions	55,574 t-CO ₂		Total CO ₂ emissions	37,036 t-CO ₂		Total CO ₂ emissions	88,699 t-CO ₂				
	NOx total amount	79,539 kg		NOx total amount	1,435 kg		NOx total amount	182,090 kg				
	SOx total amount	5,142 kg		SOx total amount	1 kg		SOx total amount	1,031 kg				
	Total emissions of waste	3,584 t		Total emissions of waste	3,420 t		Total emissions of waste	7,115 t				
	Amount recycled	3,552 t		Amount recycled	3,420 t		Amount recycled	7,113 t				
	Recycling ratio	99 %		Recycling ratio	100 %		Recycling ratio	100 %				
	BOD emissions	9,995 kg		BOD emissions	469 kg		BOD emissions	4,413 kg				
	COD emissions	21,980 kg		COD emissions	783 kg		COD emissions	6,427 kg				
	Wastewater	3,111,314 m ³ /year		Wastewater	194,050 m ³ /year		Wastewater	568,800 m ³ /year				
	Energy consumption			Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)
	*The conversion factor for calorie employs the FY1999 guidelines for calculation designed by the Ministry of the Environment based on the Law Concerning the Promotion of Measures to Cope with Global Warming.			Electricity	79,336 MWh	813,193	Electricity	79,426 MWh	814,117	Electricity	89,936 MWh	921,844
Heavy oil A				6,663 kℓ	259,375	Heavy oil A	0 kℓ	0	Heavy oil A	2,353 kℓ	91,602	
Kerosene				21 kℓ	795	Kerosene	131 kℓ	4,881	Kerosene	14,193 kℓ	528,774	
Light oil				110 kℓ	4,228	Light oil	0 kℓ	0	Light oil	4,136 kℓ	159,286	
LPG, et al.					113,115	LPG, et al.		128,455	LPG, et al.		12,468	
Total					1,190,707	Total		947,452	Total		1,713,974	

*Data for the Awazu Plant include data for Komatsu Engineering (Awazu)

Mooka Plant (established in 1971)	Construction Equipment Electronics Division (established in 1966)	Research Division (established in 1985)	Komatsu Zenoah Co. Kawagoe Plant (established in 1965)
Mooka, Tochigi Prefecture	Hiratsuka, Kanagawa Prefecture	Hiratsuka, Kanagawa Prefecture	Kawagoe, Saitama Prefecture
Large wheel loaders, dump trucks, motor graders, road-related equipment, etc.	Control equipment for construction equipment, thermoelectric modules, temperature control equipment, etc.	R&D on business fields of the Komatsu Group	Mini construction equipment, small outdoor power equipment (trimmers/brush cutters, chipper shredders, etc.)
301/66	40/2	197/23	107/44
1,279	558	210	808
April 2000	March 2000	—	July 2002

Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value
Boiler	180	55	N/A	—	—	Service generator	180	163	Cogeneration engine	950	910
Diesel engine	950	580				Cold/hot water generator	134	34	Hot water boiler	180	70
K-value regulation	8.0	1.6 or less				K-value regulation	11.5	0.38	K-value regulation	9.0	0.12
Boiler	0.3	0.005	N/A	—	—	Service generator	0.1	0.013	Cogeneration engine	0.1	0.045
Diesel engine	0.1	0.048				Cold/hot water generator	0.26	0.001	Hot water boiler	0.3	0.006

Regulated value	Actual value			Regulated value	Actual value			Regulated value	Actual value			Regulated value	Actual value		
	Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average
5.8-8.6	7.8	6	7.2	5.0-9.0	8.4	6.0	7.2	5.8-8.6	7.5	7.4	7.5	5.0-9.0	7.8	6.6	7.2
25	18.0	ND	3.3	600	280	30	124	10	10	2	5.7	600	215	ND	58
25	24.0	1.6	9.1	—	—	—	—	25	7	3	5.7	160	140	1	48.1
50	6.8	ND	5.1	600	140	18	68	65	15	1	7.7	600	150	ND	17.9
5	ND	ND	ND	5	ND	ND	ND	5	ND	ND	ND	5	3.4	ND	2.1
3	0.1	0.1	0.1	3	ND	ND	—	1	ND	ND	ND	3	ND	ND	ND
5	1.2	ND	0.2	5	0.03	0.03	—	1	0.03	0.02	0.02	5	ND	ND	ND
120	17.0	4.2	11.4	—	—	—	—	—	—	—	—	240	33	ND	11.8
16	5.6	0.2	2.7	32	2.3	2.3	—	—	—	—	—	32	0.8	ND	0.3
0.1	ND	ND	ND	0.1	ND	ND	—	0.1	ND	ND	ND	0.1	ND	ND	ND
0.1	ND	ND	ND	0.1	ND	ND	—	0.1	ND	ND	ND	0.1	ND	ND	ND
0.1	ND	ND	ND	0.5	ND	ND	—	0.5	ND	ND	ND	0.5	ND	ND	ND
0.3	ND	ND	ND	0.3	ND	ND	—	0.3	—	—	—	0.3	ND	ND	ND
0.1	ND	ND	ND	0.1	ND	ND	—	0.1	—	—	—	0.1	ND	ND	ND
0.2	ND	ND	ND	0.2	0.002	0.002	—	0.2	—	—	—	0.2	ND	ND	ND
3	ND	ND	ND	3	ND	ND	—	3	—	—	—	3	ND	ND	ND

Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value
Total CO ₂ emissions	16,761 t-CO ₂	Total CO ₂ emissions	1,942 t-CO ₂	Total CO ₂ emissions	2,451 t-CO ₂	Total CO ₂ emissions	7,327 t-CO ₂
NOx total amount	206,470 kg	NOx total amount	0 kg	NOx total amount	1,492 kg	NOx total amount	57,767 kg
SOx total amount	9,609 kg	SOx total amount	0 kg	SOx total amount	67 kg	SOx total amount	1,211 kg
Total emissions of waste	1,845 t	Total emissions of waste	328 t	Total emissions of waste	342 t	Total emissions of waste	1,666 t
Amount recycled	1,845 t	Amount recycled	328 t	Amount recycled	319 t	Amount recycled	1,666 t
Recycling ratio	100 %	Recycling ratio	100 %	Recycling ratio	93 %	Recycling ratio	100 %
BOD emissions	109 kg	BOD emissions	1,205 kg	BOD emissions	25 kg	BOD emissions	3,113 kg
COD emissions	302 kg	COD emissions	— kg	COD emissions	25 kg	COD emissions	2,569 kg
Wastewater	33,085 m ³ /year	Wastewater	14,276 m ³ /year	Wastewater	4,424 m ³ /year	Wastewater	53,448 m ³ /year

Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)
Electricity	5,063 MWh	51,896	Electricity	5,058 MWh	51,845	Electricity	4,211 MWh	43,159	Electricity	6,113 MWh	62,656
Heavy oil A	4,967 kl	193,368	Heavy oil A	0 kl	0	Heavy oil A	190 kl	7,397	Heavy oil A	1,284 kl	49,982
Kerosene	26 kl	951	Kerosene	0 kl	0	Kerosene	93 kl	3,463	Kerosene	2 kl	82
Light oil	272 kl	10,464	Light oil	0 kl	0	Light oil	10 kl	367	Light oil	188 kl	7,258
LPG, et al.		10,483	LPG, et al.		0	LPG, et al.		1,008	LPG, et al.		16,604
Total		267,163	Total		51,845	Total		55,393	Total		136,583

Environmental Data by Domestic Manufacturing Facility

Overview	Manufacturing facility	Komatsu Zenoah Co. Koriyama Plant (established in 1995)	Komatsu Electronic Metals Co., Ltd. Nagasaki Plant (established in 1985)	Komatsu Electronic Metals Co., Ltd. Miyazaki Plant (established in 1973)
	Location	Koriyama, Fukushima Prefecture	Omura, Nagasaki Prefecture	Miyazaki-gun, Miyazaki Prefecture
	Main products	Hydraulic cylinders, swivel joints, gear pumps	Mirror-polished wafers, epitaxial wafers	Mirror-polished wafers, wafers for discrete products
	Site/building area (1,000 m ²)	296/23	144/41	59/14
	Number of employees	331	1,266	700
	Date of ISO14001 certification acquisition	July 2002	April 1998	December 1998

*The number of employees includes those working for Komatsu affiliates on the premises.

*Established year means as Komatsu Group.

Compliance Conditions to Major Regulations	Air																							
	Item	Unit	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value													
	Nitrogen oxides (NOx)	ppm	Cogeneration engine	950	742	Boiler	260	105	Boiler	180	71													
	Sulfur oxides (SOx)	—	K-value regulation	11.5	0.85	K-value regulation	17.5	0.02	K-value regulation	17.5	0.62													
	Soot and dust	g/m ³ N	Tempering (electric) furnace	0.2	0.003 or less	Boiler	0.3	0.01	Boiler	0.3	0.002													
												Baking (electric) furnace	0.2	0.003 or less										
																		Cogeneration engine	0.2	0.033				

*Regulated values are in accordance with the Air Pollution Control Law and local regulations.

Compliance Conditions to Major Regulations	Wastewater														
	Item	Unit	Regulated value according to the Water Pollution Control Law				Regulated value				Regulated value				
			Regulated value	Actual value	Maximum	Minimum	Average	Regulated value	Actual value	Maximum	Minimum	Average	Regulated value	Actual value	Maximum
	pH	5.8-8.6	5.8-8.6	8.5	7	7.4	5.9-8.5	7.2	6.6	7.0	5.8-8.6	7.5	7.1	7.3	
	BOD	160 mg/l	40	19	1.5	10.0	180	43.6	18.9	30.7	25	3.9	0.8	2.2	
	COD	160 mg/l	40	18	6.6	12.2	180	29.3	6.8	14.1	160	4.1	1.3	2.2	
	Suspended substances (SS)	200 mg/l	70	28	ND	7.2	180	24	7	15	30	13	1	2.8	
	Mineral oils	5 mg/l	1	ND	ND	ND	3	1	ND	0.6	5	ND	ND	ND	
	Copper	3 mg/l	2	ND	ND	—	1	ND	ND	ND	3	0.01	ND	0.01	
	Zinc	5 mg/l	4	ND	ND	—	0.5	0.04	0.03	0.04	5	ND	ND	ND	
Nitrogen	120 mg/l	120	8.6	8.6	—	216	126	32	74	120	4.8	4.8	—		
Phosphorus	16 mg/l	16	2.8	2.8	—	3.2	0.23	0.05	0.11	16	0.05	0.05	—		
Cadmium	0.1 mg/l	0.1	ND	ND	—	0.01	ND	ND	ND	0.1	ND	ND	ND		
Lead	0.1 mg/l	0.1	0.02	ND	0.011	0.01	ND	ND	ND	0.1	ND	ND	ND		
Chromium (VI)	0.5 mg/l	0.1	ND	ND	ND	0.05	ND	ND	ND	0.2	ND	ND	ND		
Trichloroethylene	0.3 mg/l	0.3	—	—	—	0.03	ND	ND	ND	0.3	ND	ND	ND		
Tetrachloroethylene	0.1 mg/l	0.1	—	—	—	0.01	ND	ND	ND	0.1	ND	ND	ND		
Dichloromethane	0.2 mg/l	0.2	—	—	—	0.02	ND	ND	ND	0.2	ND	ND	ND		
1,1,1-trichloroethane	3 mg/l	3	—	—	—	0.03	ND	ND	ND	3	ND	ND	ND		

*Regulated values are in accordance with the Water Pollution Control Law and local regulations. *ND ("not detected") indicates a value below the lower limit of detection.

*ND is considered to be the lower limit of detection when calculating the average. *Other items are confirmed to be below the regulated value.

Major Performance	Environmental impact					
	Item	Actual value		Item	Actual value	
	Total CO ₂ emissions	12,099 t-CO ₂		Total CO ₂ emissions	134,727 t-CO ₂	
	NOx total amount	99,670 kg		NOx total amount	14,252 kg	
	SOx total amount	984 kg		SOx total amount	161 kg	
	Total emissions of waste	996 t		Total emissions of waste	8,317 t	
	Amount recycled	996 t		Amount recycled	8,303 t	
	Recycling ratio	100 %		Recycling ratio	100 %	
	BOD emissions	173 kg		BOD emissions	71,029 kg	
	COD emissions	211 kg		COD emissions	32,529 kg	
Wastewater	17,344 m ³ /year		Wastewater	2,311,145 m ³ /year		
Wastewater	2,756,845 m ³ /year					
Energy consumption						
Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	
Electricity	8,706 MWh	89,240	Electricity	325,527 MWh	3,336,652	
Heavy oil A	2,882 kℓ	112,196	Heavy oil A	0 kℓ	0	
Kerosene	0 kℓ	0	Kerosene	3,815 kℓ	142,132	
Light oil	0 kℓ	0	Light oil	1 kℓ	49	
LPG, et al.		16,397	LPG, et al.		1,261	
Total		217,833	Total		3,480,094	
Electricity			Electricity		98,107 MWh	
Heavy oil A			Heavy oil A		2,053 kℓ	
Kerosene			Kerosene		781 kℓ	
Light oil			Light oil		0 kℓ	
LPG, et al.			LPG, et al.		785	
Total			Total		1,115,382	

*The conversion factor for calorie employs the FY1999 guidelines for calculation designed by the Ministry of the Environment based on the Law Concerning the Promotion of Measures to Cope with Global Warming.

Komatsu Electronic Metals Co., Ltd. Hiratsuka Technical Center (established in 1961)	Komatsu Forklift Co., Ltd. Tochigi Plant (established in 1968)	Komatsu Castex Ltd. Himi Plant (established in 1952)	Komatsu House Ltd. (established in 1971)
Hiratsuka, Kanagawa Prefecture	Oyama, Tochigi Prefecture	Himi, Toyama Prefecture	Shinshiro, Aichi Prefecture
R&D on wafers	Forklift trucks, automated guided vehicles, automated warehouses, refrigerated warehouses, etc.	Iron castings, steel castings, molds for casting, etc.	Prefabricated structures for businesses
27/9	217/48	403/63	31/10
105	924	749	74
November 1998	February 1998	January 2000	March 2002

*Komatsu Castex Ltd. is the successor company of the former Komatsu Castex Ltd. established in 1952.

Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value	Facility	Regulated value	Actual value
N/A	—	—	Small boilers*	(260.0)	120	Annealing furnace	200	63	Boiler	250	84
						Annealing furnace (small)	180	35			
						Calciners	220	9			
			K-value regulation	7.0	1.73	K-value regulation	17.5	5 or less	K-value regulation	9.0	0.28
N/A	—	—	Small boilers*	(0.5)	0.003	Fuel sulfur (%)	0.96	0.4 or less	Boiler	0.3	0.042
						Annealing furnace	0.25	0.01 or less			
						Annealing furnace (small)	0.2	0.01 or less			
						Calciners	0.15	0.01			
						Arch furnace	0.1	0.01 or less			
						Cupola furnace	0.2	0.01 or less			

*Regulated values of NOx, soot and dust are in accordance with self-regulatory measures, because these boilers are small.

Regulated value	Actual value			Regulated value	Actual value			Regulated value	Actual value			Regulated value	Actual value		
	Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average		Maximum	Minimum	Average
5.7-8.7	7.5	6.4	7.2	5.8-8.6	7.5	7.0	7.2	5.8-8.6	8.5	6.8	7.3	5.8-8.6	7.4	6.1	6.6
300	6.1	1.1	2.8	25	17.8	0.8	6.4	20	3.8	0.7	2.3	160	13	1.9	7.7
—	7.2	ND	2.7	25	9.9	2.1	5.0	120	6	2.2	3	160	40	5.2	15.2
300	16	2.3	10.8	50	7	ND	3.4	100	36	3	12.0	200	30	ND	3.4
5	1	ND	0.6	5	0.6	ND	0.5	5	1.8	ND	0.6	5	ND	ND	ND
3	ND	ND	ND	3	ND	ND	ND	1	ND	ND	ND	—	—	—	—
3	0.12	ND	0.07	5	0.06	ND	0.05	1	ND	ND	ND	—	—	—	—
120	11	8.8	9.9	20	5.1	1.4	3.2	60	—	—	—	120	81	3.7	29.7
16	0.1	0.1	0.1	2	0.59	0.16	0.37	8	—	—	—	16	14	0.1	2.4
0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	ND	ND	ND	—	—	—	—
0.1	0.006	ND	0.005	0.1	ND	ND	ND	0.1	ND	ND	ND	—	—	—	—
0.5	ND	ND	ND	0.1	ND	ND	ND	0.5	ND	ND	ND	—	—	—	—
0.3	ND	ND	ND	0.3	ND	ND	ND	0.3	—	—	—	—	—	—	—
0.1	ND	ND	ND	0.1	ND	ND	ND	0.1	—	—	—	—	—	—	—
0.2	ND	ND	ND	0.2	ND	ND	ND	0.2	—	—	—	—	—	—	—
3	ND	ND	ND	3	ND	ND	ND	3	—	—	—	—	—	—	—

Item	Actual value	Item	Actual value	Item	Actual value	Item	Actual value
Total CO ₂ emissions	2,345 t-CO ₂	Total CO ₂ emissions	10,864 t-CO ₂	Total CO ₂ emissions	64,410 t-CO ₂	Total CO ₂ emissions	1,090 t-CO ₂
NOx total amount	0 kg	NOx total amount	7,299 kg	NOx total amount	10,812 kg	NOx total amount	427 kg
SOx total amount	0 kg	SOx total amount	4,547 kg	SOx total amount	24,454 kg	SOx total amount	932 kg
Total emissions of waste	75 t	Total emissions of waste	2,988 t	Total emissions of waste	21,930 t	Total emissions of waste	369 t
Amount recycled	74 t	Amount recycled	2,977 t	Amount recycled	21,782 t	Amount recycled	349 t
Recycling ratio	99 %	Recycling ratio	100 %	Recycling ratio	99 %	Recycling ratio	95 %
BOD emissions	179 kg	BOD emissions	267 kg	BOD emissions	872 kg	BOD emissions	56 kg
COD emissions	170 kg	COD emissions	208 kg	COD emissions	1,280 kg	COD emissions	110 kg
Wastewater	63,937 m ³ /year	Wastewater	41,905 m ³ /year	Wastewater	379,200 m ³ /year	Wastewater	7,278 m ³ /year

Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)	Item	Actual consumption	Converted to calorie equivalents (GJ)
Electricity	6,107 MWh	62,597	Electricity	12,678 MWh	129,953	Electricity	116,012 MWh	1,189,123	Electricity	759 MWh	7,779
Heavy oil A	0 kℓ	0	Heavy oil A	1,606 kℓ	62,522	Heavy oil A	2,756 kℓ	107,281	Heavy oil A	102 kℓ	3,971
Kerosene	0 kℓ	0	Kerosene	16 kℓ	596	Kerosene	1,517 kℓ	56,529	Kerosene	1 kℓ	30
Light oil	0 kℓ	0	Light oil	108 kℓ	4,141	Light oil	0 kℓ	0	Light oil	11 kℓ	424
LPG, et al.	0	0	LPG, et al.	22,151	22,151	LPG, et al.	120,970	120,970	LPG, et al.	8,218	8,218
Total	62,597	62,597	Total	219,362	219,362	Total	1,473,902	1,473,902	Total	20,421	20,421