Appendix 2 Sample Output of Energy Demand
Forecast Model

Sample Output of Energy Demand Forecast Model Appendix 2 7, 105 5.6 201.6 5.6 53.974 25, 599 300 - 500 2000 21, 378 23, 362 300 306 23, 607 25, 834 -500 -500 8.445 6.757 182.9 192.0 43,672 51,779 199 999 181.6 5, 929 19, 477 300 21, 579 605-4, 224 11, 102 10, 11, 102 11, 102 11, 102 11, 102 11, 103 11, 0, 138 174. 2 47,650 98 1, 194 1, 1955 1, 1955 1, 208 5,845 17.793 300 19.732 -500 85. 701 28. 701 31. 202 31. 202 31. 203 31. 203 32. 701 38. 701 38. 701 38. 701 38. 703 38. 70 45, 709 2.0 - 28 88 88 88 15, 858 15, 858 43849 5,567 13, 283 13, 283 14, 183 16, 193 17, 193 18, 윩 la la 2000/199 5.567 14.2 14, 295 14, 8 240 15, 868 214, 1 132 9 (40.9 1.1 43.846 :: 146.6 42, 713 1.103 66 72, 200 141, 100 151, 10 123.8 12, 363 12, 148 275 4, 530 4, 787 128, 5 135, 8 34.981 41,718 080 182 1953 10 13,000 12,100 12, 1 25 25 E 108.2 113.9 1992 2.815 3.335 3.524 4.080 79.9 94.6 100.0 115.8 9,944 35, 492 36, 695 38, 017 1881 7,200 78,500 128,200 133,000 1,750 17,200 17,200 1,750 1,750 1 8 185 275 275 100.0 660 E E \$ 172 5.86 \$ 87.7 5.86 \$ 17.5 3.66 \$ 17.5 3.60 \$ 17.5 3.60 \$ 1.7 5.60 \$ 1.80 \$ 3. 686 1. 228 1. 228 4. 1. 228 4. 1. 228 4. 4. 657 4. 939 4. 939 4. 939 1. 132 1. 13 7, 631 8. 0.30 29.857 32.740 34,487 8.497 214 3.377 217 93, 200 90, 600 89, 500 86, 500 86, 200 90, 300 110, 200 124, 900 S & 1988 170 5, 203 188 5, 125 211 1.000 138. - 35 - 35 83.3 24, 800 4, 758 25, 558 2 2 2 2 8 X 2 532 1, 390 1, 390 1, 390 1, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 2, 390 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 300 3, 165 1586 2,143 2,864 1,333 1,333 1,333 1,333 1,333 1,334 1,335 1,335 1,335 2,196 2,196 13.880 27.457 1, ¢78 41.9 3 977 2 974 3 974 22, 856 2 2 1985 82 Part Ments AAGSEL ES \$11100 GEST ES \$11100 GEST ES \$11100 GEST ES \$11100 GEST Ra/person : PERCOP 1000 Parso POP 1000 fax(1 808 Covernment Finance at Corrent Pr Revenue 1 Frants Received 2 Frend Lure 1 Candig Reparent Social statistics B Population (Middle of Years) I (Adependent Nouscholds 71 Total Labour Productivity 77
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◆ Appendix 3 Sample Form for Energy Audit ◆

Appendix 3 Sample Form for Energy Audit

MONTHLY REPORT FOR ENERGY USE

Company and Factory Na Manager Energy Controlle	
Name of Facilities : Design Capacity :	
Summary of Operation :	
Operation Capa	acity:
Operation Fact	or:

Energy Consumed:

	. Design	j	Normal	:	Current	Оp	e. Hrs.	Mon.	Cons.
FACILITIES		:			****			<u>:</u>	
Fuel (Kg/Hr)									
Fuel oil									
LPG									
Coal						:			
Elec. Power(Kwh)									
Driver				:_					
Heating									
Lighting		:						· 	
Steam (Kg/Hr)					-r				
Heating				:					
Driver									
Heat Media (Kcal/Hr)									

Specific Item: (Data shall be filled for each equipment specified) (a) Combustion Equipment (Steam boiler and other heater):

- Fuel Consumption:
- Thermal Efficiency:
- Evaluation by comparing with design efficiency:
- (b) Electric Motor:
 - Power Consumption:
 - Evaluation comparing design and operating conditions :
- (c) Indirect Heater (by steam, heating media, etc.):
 - -Heat transferred :
 - -Evaluation comparing design and operating conditions:
- (d) Steam Turbine (for driver):
 - -Steam Consumption:
 - -Evaluation comparing standered value and operating conditions :
- (e) Steam turbine Alternator :
 -Steam Rate : (inlet, extructed, exhaust or condensate)
 - -Power Generated:
 - -Efficiency:
 - -Evaluation by comparing stadard value and operating conditions :

Plan to Improve Energy Efficiency:

Attachment:

- * Operation Record
- * Simplified Flow Scheme (showing equipment specified as above)

Attachment - 1 for Monthly Report

DAILY OPERATION RECORD

(1) Whole Factory

Sta	ndard			
Fuel (Kg/Hr)				
Fuel Oil				
LPG		:		
Coal				
Elec. Power(Kwh)		 		
Purchased		 		
Generated		 		
Consumed			-	
Loss		 <u>:</u>		
Elec. for Lighting		 		
Steam (Kg/Hr)		 		
Generated(HP)	:	 ······································		
(MP)		 <u>t</u>	: 	•
(LP)				
		 1		
to Power Generator		 :		
from Power Generator		 		.
extruct				•
exhaust				
condensate		·		
Power Gener. Eff.		 •	•	
Boiler(for power gen.)		 	<u>:</u>	
Fuel consump.		 		
O2 in flue gas	·····	 <u></u>	· 	<u>.</u>
Flue gas temp.		 ·	·	
Boiler Eff.		 		

(2) Production / Process Facilities

	Standard	
Combustion Equip.		:
Fuel cons.(Kg/Hr)		
O2 Cont. in flue gas		
Flue gas temp.		:
Cold side fluid	. ,	
flow rate		
in/out temp.		
Heater Eff.		:
Electric Motor		,
Ampare		
Power factor		* *
Power cons.(Kwh)		
Indirect Heater		
Heating Media.		
Flow rate(Kg/Hr)		
Temp.(in/out)		
Cold side fluid		-
Flow rate(Kg/Hr)	· · · · · · · · · · · · · · · · · · ·	
Temp.(in/out)	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF	
Heat transferred		
Steam Turbine		
Steam cons.(kg/hr)	!	
Press. (in/out)		
Temp.(in/out)	:	

◆ Appendix 4 Supplement Technical Information ◆



Appendix 4 Supplement Technical Information

A. WIND POWER

1. Wind Power

- (1) Potential of Wind Power Generation
- We estimated potential of wind power generation shown as Table A4.1
 This estimation is based on UNDP and we select the type of wind turbine is MICON in Denmark (capacity is 600kW).
 Main specification is shown as Figure A4.1.
- Case study of Wind Power Generation in Mauritius is given in Table A4.2.
 Figure A4.2 shows Annual production toward Mean wind speed.
- (2) Situation of Wind Power Generation
- Installed capacity
 Table A4.3 shows development of wind power generation of IEA major countries.
- Trend of wind power turbine
 Table A4.4 shows big turbine in the world.
- 3) Operation record on Japan Table A4.5-6 show operation record of Miyakojima wind power station and Tappi wind park.

2. Subsidy System for Photovoltaic Power Generation in Japan

MITI (Ministry of International Trade and Industry) operates the subsidy system to introduce photovoltaic Power Generation.

In fiscal 1994, number of scope was 700, subsidiary rate was half of cost of equipment (including installation cost) and subsidy was upper 900,000YEN per 1kW.

3. Waste Power Generation in Japan

In Japan, practical power generation in a waste incineration facility was started in 1965.

Initially, the calorific value of waste was low at 1,500 to 2,000 kcal/kg. the power generation efficiency was also low at 5-10%. For these reasons, the power generated was used only for the station service.

Recently, however, as it now contains more plastic and paper, the calorific value of waste has increased to 2,500 to 3,000kcal/kg. The power generation efficiency has also increased to 15% to 20%.

Accordingly, the utility companies now purchase excess power from waste plants.

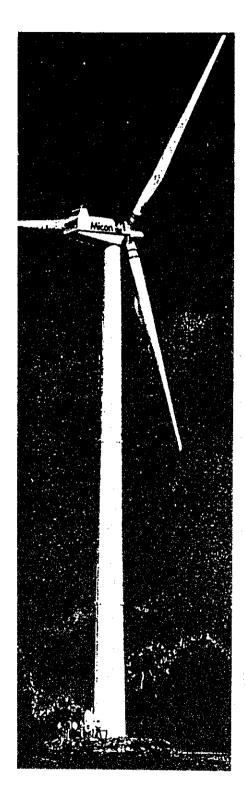
As of the end of fiscal 1994, a total of 390MW of power was generated by approximately 1,900 waste incineration plants.

4. Demand and installed capacity in the other countries

Table A4.7 shows demand and installed capacity in the other countries.

Table A4.1 POTENTIAL OF WIND POWER GENERATION

		Mauritius		
	Mean Speed	Mean Speed	Annual Average	Utilization
Site		(at 40m height)	Generation Power	
	m/s	m/s	GWh/year	%
Grand Basin	5.10	6.8	1.60	30.4
Bois Cheri	3.70	5.0	0.74	14.1
Gris Gris	6.07	8.2	2.20	41.9
St Felix	4.10	5.5	0.85	16.2
Bel Ombre	6.00	8.1	2.10	40.0
Union Park	3.40	4.6		
Grand Port	5.60	7.5	1.80	34.2
Palmar	4.60	6.2	1.20	22.8
St Antonic	5.30	7.1	1.70	32.3
M.G.I. (Moka)	4.10	5.5	0.90	17.1
Bigara	5.00	6.7	1.40	26.6
		Rodrigues		
	Mean Speed	Mean Speed	Annual Average	Utilization
Site	_	(at 40m height)	Generation Power	
	m/s	m/s	GWh/year	. %
Batarand	4.90	6.6	1,30	24.7
Anse Quitor	5.90	7.9	1.80	34.2
Roche Bon Dieu	5.10	6.8	1.60	30.4
Rivere Coco	4.90	6.6	130	24.7



Main Specifications

Type:

3-bladed, strallregulated, gridconnected, up-wind turbine.

Generator type:

Asynchronous, 3-phase, 2-speed (1000/1500 rpm.).

Nominal Rating:

600 kW.

Nominal Voltage:

690 V.

Frequency:

50 Hz or 60 Hz.

Cut-in wind speed:

3.5 m/s.

Cut-out wind speed:

25 m/s.

Survival wind speed:

69 m/s.

Rotor revolutions:

27/18 rpm.

Rotor Diameter:

43.0 m.

Swept rotor-area:

1452 m².

Hub height:

40 m or 46 m.

Tower:

Painted, 24-edged, conical, tubular steel lower.

Brake system:

Fail safe disc brake and blade tip brakes.

Control system:

Selfdiagnostic Computer Control.

Weights:

Tower: 40 t. Nacelle: 19 t.

Rotor: 13 t.

Under usual reserve for changes.

Figure A4.1 MAIN SPECIFICATION OF WIND TURBINE

Table A4.2 CASE STUDY OF WIND POWER GENERATION IN MAURITIUS

1. Location	Gris Gris
2. Data	
1) Mean Wind Speed	8.2m/s (at 40m height)
2) Annual Production	2.2 x 10 ⁶ kWh/year/unit
3) Area	1km²
4) Number of Unit	25
5) Output	$600kW/unit \times 25 \text{ units} = 15MW$
6) Construction Cost	$30 \times 10^3 \text{Rs/kW}$
3. Generation Cost	
1) Total Construction Cost	450 Million Rs
2) Annual Expenditure Rate	0.15 p.u.
3) Annual Production	55 x 10 ⁶ kWh
450 x 0.15 x 10 ⁶ Rs	$s/55 \times 10^6 \text{ kWh} = 1.23 \text{Rs/kWh}$

Figure A4.2 ANNUAL PRODUCTION TOWARD MEAN WIND SPEED

Table A4.3 WIND POWER GENERATION IN THE WORLD

as of Dec.,1995

Country	Output	(MW)	Main aites & Output (MW)	`
Country	Dec.,1994	Dec.,1995	Main sites & Output (MW))
U.S.A.	1,630	1,770	Califolnia Altamont Pass	667
		·	Califolnia Tehachapi	643
		·	Califolnia San Gorgonia Pass	225
Germany	643	1,137	Schleswig Holstein Region	7
			Ostfriesland Region	7
			Wilheimshaben	5
Denmark	540	630	Kappel	9.6
			Vindeby Off-Shore Plant	3.7
India	120	550		
Netherland	153	250	North Holland	40
			Sexbirum Regin	40
	·		Maasylakte	12
U.K.	147	193	Cornwall	16
			Burgur Hill	4
Spain	72	126		
Sweden	40	67		
China	25	36		
Greece	27	28		
Italy	22	23		
Canada	23	21		
Japan	5	10		
Others	52	56		
Total	3,499	4,897	140% up	

Source:IEA

Table A4.4 MAJOR WIND TURBINE IN THE WORLD

Country Manufacture Canada Shawinigan Indal Technol Denmark DWT(Blade) DWT DWT DWT DWT MA.N. M.A.N. M.B.B. MBB	are Model EOLE I 6100 NIBE-A NIBE-B NIBE-B	Type	Zumber	Number	-	-	J. Cartanit	K-17.KX	Wind Velocity at 10m	.0m	Operating	Tota	Commissioning
7	e e	,			Diameter	Wind	Cumbur	איזמנאי	VEIUCILI G.	-			
25 F. M. M. A. D.	9		1		of Roter	Velocity					Hours (Generation	
۲4 £				Annia To	(E)	(m/s)	(KW)	5m/s	6.5т/s	8.0m/s	(h)	(MWh)	
건 2	pag(٩	-	0	61.0	23.0	4,000	3,990	7,105	9,230	480	360	3/88
		٠, (1 (7	200	522	297	602	1,064	3,000	300	3/88
THE RESIDENCE OF THE PROPERTY	<u> </u>)	`1	۱ ۱	† C	1 6	000		1 000		6.146	1,313	3/88
lany	NIBE-B	p,		m	40.0	13.0	000		7,000	10201	17.800	4.744	
Jany	ON TIME AND AND AND	ρ.,	Y -I	m	40.0	13.0	630		1,300	14,041	17,000	F F	90/6
ıany	OF LIVE VIEW	υ	Ŋ	т	40.0	15.0	750	947	1,861	2,693			3/00
nany		<u></u>	pri	m	60.0	15.0	2,000		4,500				3/88
nany .		ρ.,	0	7	0.09	13.3	1,500		4,300				3/88
	WKA60	ρ.	0	m	0.09	12.2	1,200			2,400			10/87
MBB	GROWLAN	P4	+4	7	100.0	12.0	3,000				350		3/88
MBB	MONOPT 50	C	n	1-4	56.0	11.0	610			2,000			88/9
	Taonore	Δ					5,000					-	88/8
AGY.	SC SOMMEN	, ρ	· ·	, ,	45.0	13.9	1,000			2,300			10/87
lands		۰, ۶	1 (1 (1									88/8
Spain Asinel.M.A.N.		71 (, כ	n (200			4 082	686.9	8,821	11,258	13,185	2/88
Sweden KMWAB	WTS-75	<u>ъ</u> ,		7	0.07			100,	8 703	11 158		18.541	88/8
Kariskrona-va	Kariskrona-varvet AHWTS-3	Δ.		c ₁	0.8/			000,4	5.0	407			······
U.K. WEG	LS-1	p,	,	2	0.09	17.0		1,695	4,519	1 / C, /			10/81
WEG	LS-2	Α,	0	2	70.0	·	2,400						10/07
Howden	750kW	<u>ρ</u> .	Н	т	45.0		750						1/90
Howden	1MW	ρı	0	ы	55.0		1,000						
IIS A Boeing	MOD-2	Α,	4	2	91.4	12.3	2,500	5,171	8,740	10,929			
	MOD-2/PG&E	(1) (1)		2	91.4	12.3	2,500	5,171	8,740	10,929	9,198	•	
T Comme	MOD.5B			7	0.66	20.5	3,200	6,112	10,623	14,128	4,510	4,996	88/8
Sulaosi Sulaosi		. Α	(,-	2	78.0	15.0		4,954	9,919	14,221	4,100	8,000	8/87
Hami. Standard	-	, (4 7	1 6	43.0			935	1,766	2,447	143,800	34,560	88/8

Table A4.5 OPERATION RECORD OF MIYAKOJIMA WIND POWER STATION

***************************************	No	o.1	No	.2
1993	Generation (kWh)	Utilization (%)	Generation (kWh)	Utilization (%)
4	47,940	26.6	47,580	26.4
5	26,640	14.3	24,830	13.3
6	46,350	25.8	47,480	26.4
7	16,860	9.1	22,740	12.2
8	36,050	19.4	34,450	18.5
9	21,690	12.1	24,070	13.4
10	28,270	15.2	83,860	45.1
11	61,220	34.0	64,760	36.0
12	96,980	52.1	101,030	54.3
1	57,430	30.9	60,730	32.7
2	61,390	36.5	62,840	37.4
3	63,790	34.3	67,760	36.4
Total	564,610	25.8	642,130	29.3

	No	.1	No	.2
1994	Generation (kWh)	Utilization (%)	Generation (kWh)	Utilization (%)
4	27,280	15.2	28,150	15.6
5	38,950	20.9	39,970	21.5
6	39,220	21.8	38,890	21.6
7	20,290	10.9	23,520	12.6
8	36,750	19.8	40,170	21.6
9	50,250	27.9	52,110	29.0
10	82,530	44.4	84,700	45.5
11	51,840	28.8	59,090	32.8
12	80,850	43.5	78,780	42.4
1	82,100	44.1	84,400	45.4
2	71,260	42.4	75,160	44.7
3	66,460	35.7	68,530	36,8
Total	647,780	29.6	673,470	30.8

No.1		.1	No.2		
1995	Generation (kWh)	Utilization (%)	Generation (kWh)	Utilization (%)	
4	48,570	27.0	49,460	27.5	
5	41,890	22.5	43,900	23.6	
6	57,420	31.9	56,070	31.2	
7	40,980	22.0	42,620	22.9	
8	18,990	10.2	20,470	11.0	
9	40,290	22.4	41,700	23.2	
10	62,280	33.5	67,250	36.2	
11	68,910	38.3	77,640	43.1	
12	56,450	30.3	79,190	42.6	
1	68,420	36.8	72,500	39.0	
2	78,850	45.3	79,180	45.5	
3	33,490	18.0	38,600	20.8	
Total	616,540	28.2	668,580	30.5	

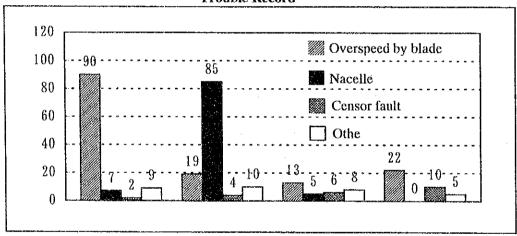
	No	.1	No.2	
1996	Generation (kWh)	Utilization (%)	Generation (kWh)	Utilization (%)
4	68,910	38.3	70,990	39.4
5	55,210	29.7	57,550	30.9
6	45,050	25.0	42,320	23.5
7	33,050	17.8	32,770	17.6
8	21,180	11.4	20,570	11.1
9	57,750	32.1	56,960	31.6
10	59,840	32.2	51,740	27.8
11			1	
12				
1				
2				
3				
Total	340,990	26.6	332,900	25.9

Table A4.6 OPERATION RECORD OF TAPPI WIND PARK

1. Performance

	No.1~5	No.6~10	NEDO
Installation date	1991.10	1995.9	1996.10
Commissioning	1992.4	1995.1	1996.10
Number of units	5	5	1
Type of rotor	upwind	Horizontal shaf propeller	Horizontal shaf propeller
Orientation	upwind	upwind	upwind
Rated power	275kW	300kW	500kW
Hub Height	30m	30m	38m
Rotor Diameter	28m	29m	38.5m
Rotational speed	43rpm	43rpm	32грт
Cut in wind speed	5.5m/s	5.5m/s	5.5m/s
Rated wind speed	13.0m/s	14.5m/s	12.5m/s
Cut out wind speed	24.0m/s	24.0m/s	24m/s
Power control	full span blade pitch	full span blade pitch	full span blade pitch





2. Operation record of No.1 - No.5 from 1992 - 1995

		1992	1993	1994	1995	Average
Mean wind speed	(m/s)	6.1	6.7	6.0	6.8	6.4
Generation	(MWh)	2,290	2,880	2,290	2,950	2,600
Utilization factor	(%)	19.1	24.0	19.0	24.5	21.7
Availability	(%)	85.7	88.3	86.4	97.3	89.4
Standby time rate	(%)	38.1	30.8	37.7	40.6	36.8
Operation time rate	(%)	47.6	57.6	48.7	56.6	52.6
O/M time rate	(%)	2.0	3.8	5.1	0.9	3.0
Breakdown time rate	(%)	2.4	1.7	4.1	0.4	2.2
Other breakdown time rate	(%)	9.9	6.1	4.4	1.4	5.4

4687.6 6.9 3182.4 26.4 61.1 98.3 8.9 35.6 72.7 97.5 Average Total 424.9 70.8 94.9 95.6 8.9 7.5 328.3 62.2 38.1 32.1Dec 407.6 92.4 343.3 34.7 9.2 37.7 69.4 8.4 67.1 94.1 Nov. 185.6 49.8 6.96 266.9 23.9 58.4 6.0 18.1 92.1 Ö 107.0 10.8 39.8 6.3 185.6 17.2 55.3 99.2 8.8 100 Sep 295.0 26.4 182.2 54.8 73.2 100 100 6.1 Aug 463.5 41.5 78.0 213.2 20.859.4 9.5 100 6.0 100 Jul 1996 332.6 30.8 100 6.0 168.2 17.0 62.8 100 80.1 Jun 214.9 21.0 97.9 34.0 70.0 91.3 57.4 379.1 6.2 May 8.9 282.7 28.6 61.8 95.7 10.2 510.280.0 100 Apr 459.0 76.9 338.8 66.2 100 100 33.1 Mar 36.3 74.8 430.3 80.5 100 8.0 347.2 100 Feb 3. Operation record of No.1 - No.10 in 1996 539.2 80.0 100 471.0 46.0 77.3 99.5 10.7 Jan (MWh) (MWh) (s/m) (s/m) (%) 8 8 8 8 8 Operation time rate No.10 Operation time rate Mean wind speed Mean wind speed Utilization factor Utilization factor Availability Availability Generation Generation No.5 No.6 No.1

Average 37.6 32.0 25.6 15.8 27.7 38.2 33.2 38.1 53.1 32.1 38.1 35.1 Dec 36.3 30.6 32.4 39.8 37.9 47.9 40.7 19.7 30.7 34.7 37.7 36.2 Nov 19.6 29.4 15.9 10.7 25.2 16.8 22.8 21.8 32.9 23.9 15.1 18.1 0 Ö 21. 18.8 13.1 14.0 16.2 20.9 18.7 16.2 10.8 17.2 14.0 Sep 25.6 19.9 10.8 17.2 15.6 29.2 26.3 26.1 25.1 25.5 17.8 26.4 22.1 Aug 33.9 21.0 8.9 20.3 43.4 38.6 20.8 43.2 20.1 31.2 Jul 19.2 14.9 13.9 33.7 30.0 17.0 30.8 23.9 Jun 34.0 26.3 14.7 16.8 13.2 25.8 34.0 36.7 33.2 27.5 35.1 39.1 May 30.9 19.7 18.6 49.6 44.3 42.7 46.0 53.6 28.6 37.8 Apr 27.9 19.5 50.9 37.2 40.6 40.6 38.0 30.1 32.7 53.7 33.1 37.1 Mar 36.6 45.8 26.5 16.5 40.5 43.8 35.6 36.3 28.1 58.1 38.7 56.1 Feb 4. Utilization factor of each unit 52.5 53.4 50.4 43.6 45.1 31.9 54.7 42.6 64.5 45.1 46.0 47.8 46.9 Jan No.6-10(Average) No.1-10(Average) No.1-5(Average) No.10 No.2 No.3 No.4 No.5 No.6 No.8 No.9 No.1 No.7

30.4

22.6

22.7

16.7

36.1

29.1

35.3

33.8

43.6

26.4

35.6

31.0

5. Generation Cost							
		1992	1993	1994	1995	1996-1	1996-12
		No.1 - No.5	No.1 - No.5	No.1 - No.5	No.1 - No.10	No.1 - No.10	NEDO
Construction cost	(yen/unit)	174,900,000	174,900,000	174,900,000	174,900,000	174,900,000	185,500,000
(a) O&M Cost	(yen/unit)	5,280,000	5,280,000	5,280,000	5,280,000	3,000,000	3,000,000
(b) O&M Cost	(yen/kWh)	11.5	9.2	11.5	8.9	4.7	3.2
(c) O&M Cost / Construction cost	(%)	3.0	3.0	3.0	3.0	1.7	1.6
Expenditure rate / year	(%)	0.102	0.102	0.102	0.102	0.102	0.102
Interest rate	(%)	8	80	8	8	8	∞
Durable period	(year)	20	20	20	20	20	20
Average generation per annum	(kWh/unit)	458,680	576,840	458,220	590,640	636,480	937,520
Generation cost	(Yen/kWh)	50.3	40.0	50.4	39.1	32.7	23.4
	PORT (0.000)						

TableA4.7 DEMAND AND INSTALLED CAPACITY IN OTHER COUNTRIES

1. Taiwan

Year	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
1973	4,582	3,134	1.46
1974	4,842	3,452	1.40
1975	5,889	3,765	1.56
1976	6,538	4,302	1.52
1977	7,800	4,818	1.62
1978	8,537	5,630	1.52
1979	9,092	6,070	1.50
1980	10,066	6,703	1.50
1981	11,288	6,797	1.66

2. Thailand

Year	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
1980	3,831	2,379	1.61
1981	4,453	2,561	1.74
1982	4,892	2,823	1.73
1983	5,591	3,200	1.75
1984	6,809	3,545	1.92
1985	7,450	3,826	1.95
1986	7,539	4,202	1.79
1987	7,761	4,842	1.60
1988	7,774	5,414	1.44
1989	8,151	6,208	1.31

3. Indonesia

Year	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
1986	6,889	3,403	2.02
1987	8,041	3,890	2.07
1988	9,477	4,497	2.11
1989	10,098	5,167	1.95
1990	10,130	5,897	1.72
1991	10,208	6,167	1.66
1992	12,081	6,415	1.88
1993	15,111	7,122	2.12

4. Israel

Year	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
1986	4,061	2,820	1.44
1987	4,061	3,240	1.25
1988	4,061	3,510	1.16
1989	4,926	3,760	1.31
1990	5,066	3,800	1.33
1991	5,886	4,540	1.30
1992	5,886	5,010	1.17
1993	6,116	5,090	1.20
1994	6,346	5,490	1.16
1995	6,920	5,600	1.24

5. Central America

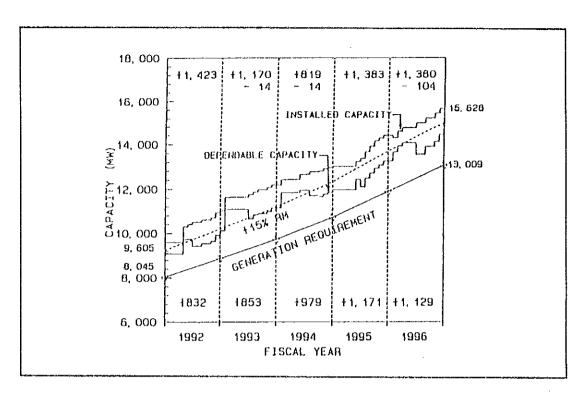
Country	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
Guatemala	836	495	1.69
El Sadvador	650	447	1.45
Honduras	525	377	1.39
Nicaragua	363	271	1.34
Costa Rica	1,006	717	1.40

6. Okinawa in Japan

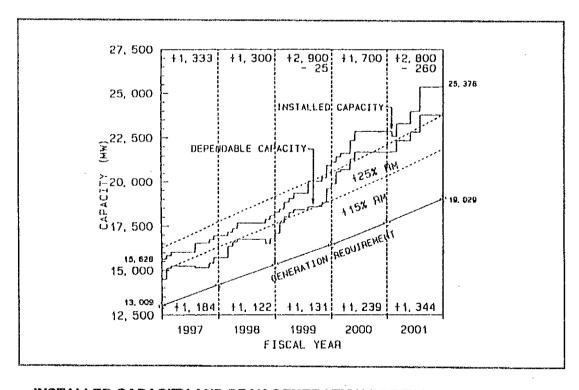
Year	Installed capacity(MW)		I.C/P.D
1996	1,630	1,280	1.27

7. Mauritius

Year	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
1990	297	131	2.27
1991	320	147	2.18
1992	332	156	2.13
1993	339	170	1.99
1994	339	187	1.81
1995	364	201	1.81
1996	393	217	1.81
1997	421	232	1.81
1998	421	249	1.69
1999	440	271	1.62
2000	465	2.88	1.61
2001	469	315	1.49
2002	494	344	1.44
2003	525	372	1,4



INSTALLED CAPACITY AND PEAK GENERATION PROFILE IN THE 7TH PLAN



INSTALLED CAPACITY AND PEAK GENERATION PROFILE IN THE 8TH PLAN

B. CO-GENERATION

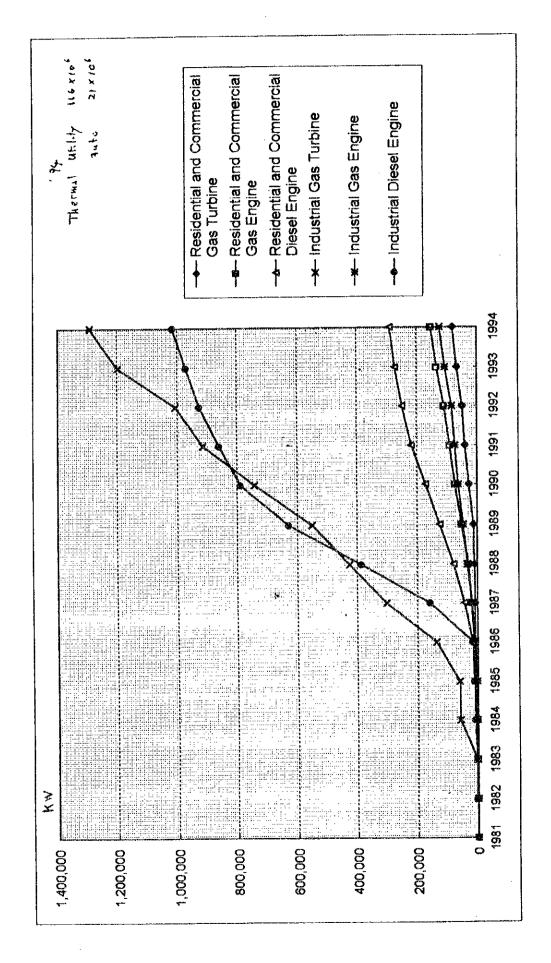
CO-GENERATION PROJECTS IN JAPAN

E: ELECTRICITY C:COOLING W:HOT WATER H:HEATING GT: GAS TURBINE E:GAS ENGINE DE:DIESEL ENGINE

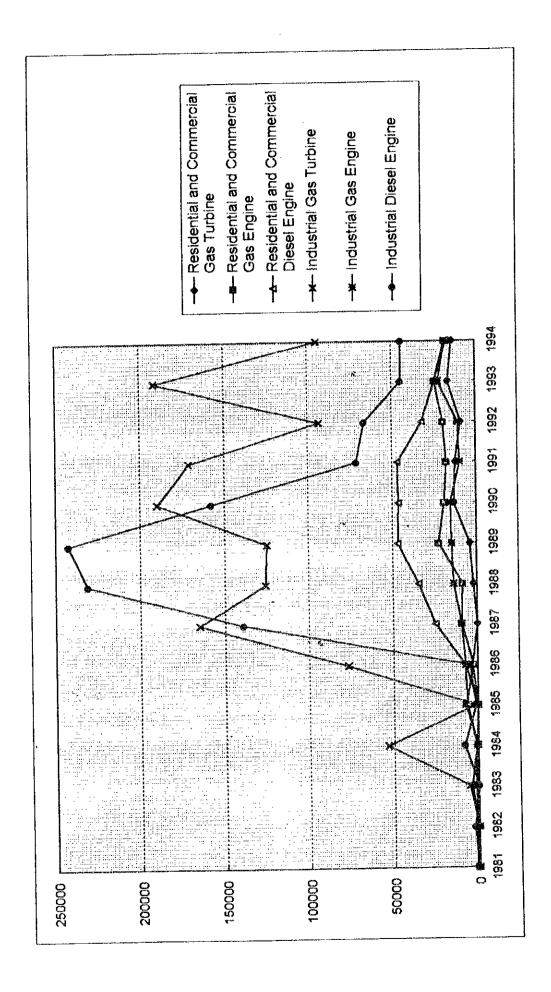
Time Completion Commercial	Type of Owner	Туре	Engine	KW
(1) 1986 June	Computer Center	E.H.C.	G.E	1,100 x 3
()	Town Gas Company			
(2) 1986 March	Commercial Building	E.H.	G.E	2,178
(3) 1986 February	Hotel (Central)	E.H.C.W	D.E (F.O.A)	600
(4) 1985 December	Research Center	E.C.H.	D.E (F.O.A)	96
(5) 1985 June	Hotel (North)	E.H.W	D.E	400 x 2
(6) 1984 February	Hotel (Okinawa)	E.H.C.W	G.T	400
			(Kerosene)	
(7) 1983 December	Office Building of	E.H.C.W	G.T	1,000 x 2
	Town Gas Co.		(Town Gas)	

GENERAL STATISTICS

Engine Type	Number of Project	Total Cap (2	Average Cap kwg/project	
Gas Turbine	Commercial	36	86	2,381
Gas Turbine	Industry	201	1,522	2,573
Gas Engine	Commercial	513	168	328
Gas Engine	Industry	202	130	648
Diesel Engine	Commercial	656	333	507
Diesel Engine	Industry	477	1,203	2,522



DEVELOPMENT OF CO-GENERATION PROJECTS IN JAPAN



DEVELOPMENT OF CO-GENERATION PROJECTS IN JAPAN

CHARACTERISTIC OF CO-GENERATION BY TYPE OF ENGINE

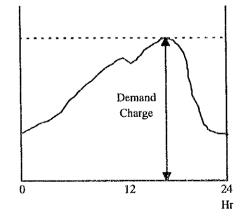
	Diesel Engine	Gas Engine	Gas Turbine
Adequate Size (kw)	15 - 10,000	20 - 5,000	1,000 - 230,000
Power Gene Efficiency (%)	30 - 45	28 - 38	25 - 40
Overall Efficiency (%)	40 - 70	60 - 80	60 - 85
Fuel	Gas oil Fuel oil	Natural Gas LPG	Gas Oil Kerosene
			Natural Gas
Temp of Engine ($^{\circ}$ C)	350 - 450	400 - 500	500 - 600
Exhaust			

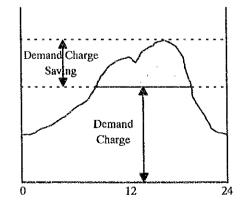
Gas Turbine suitable to heat load oriented system, Diesel/Gas Engine suitable to electricity oriented system any case. The heat requirement throught the day is to be significant for economy improvement.

Viability Depend

- * Demand Charge V.S. Energy Charge
- * Tariff (Energy Charge) during peak time
- * Cost of Fuel for hot water or steam
- * Cost of energy for air cooling

ELECTRICITY DEMAND





C. BIO-COAL

DESCRIPTION

1. Features of Bio-Coal

(1) Little smoke generation

The smoke generation rate of Bio-Coal is reduced to 1/5 to 1/10 of the rate of the unblended coal. combustion of wood fibre or other Biomass with a low ignition temperature present between the coal particles, creates the phenomenon that no volatile matters in coal remain unburnt at a low temperature zone (200 to 400° C) and thus emission smoke will not occur. Since each Bio-Coal briquette has been formed by high compressive force, during combustion, briquettes will disintegrate to cause separation of coal particles and wood fibre.

(2) Good ignitability and burning quality

The Bio-Coal has a low ignition temperature because of the blended wood fibre, and will burn evenly at low combustion rates.

(3) No clinker produced

Since wood fibre is present between coal particles, clinkering is prevented by wood ash. The ash will pass like sand gravitationally through a fire grate, thus causing no impediment to combustion. No clinker generation means that there is less unburnt coal contained in clinker, thus leaving almost no unburnt residue.

Moreover, disposal of ash is easy.

(4) Less SOx in the flue gases

Since the Bio-Coal has been formed by high compressive force with a desulfurizing agent such as Ca (OH)₂ dispersed between coal particles, catalytic reaction between the sulfur content and desulfurizing agent is achieved effectively during combustion, thus leading to the fixation of 60% to 80% of sulfur in the coal.

2. Features of Production Process

(1) The production flow is simple and high in safety

As a technique for making coal smokeless, the dry distillation (carbonization) process has conventionally been used. The Bio-Coal process can eliminate such complicated operations as may be

required in the dry distillation process and causes no problems such as disposal of tar and other byproducts.

Moreover, The Bio-Coal process involves no danger because it is not performed at high temperatures.

(2) Briquetting by high compressive force

Since the coal particles, biomass materials and desulfurizing agent are subjected to briquetting by high compressive force, they are bound strongly to each other, with the result that separation does not occur even during combustion.

Though a binder may be added depending on the coal grades, the addition rate of such binder can be reduced due to the briquetting by high compressive force.

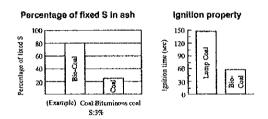
(3) A variety of coal grades and biomass materials can be used as raw materials.

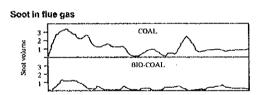
A wide variety of coal grades ranging from low grade coal such as brown coal and lignite to bituminous coal and anthracite can be used.

As for the biomass materials, waste wood, bagasse, peat pulp etc, can be used.

3. Applications of Bio-Coal

The Bio-coal is suitable as a domestic clean burning fuel for stove, boiler or cooking, as well as industrial applications: such as greenhouse boilers, and boilers for office, apartment or institutions.

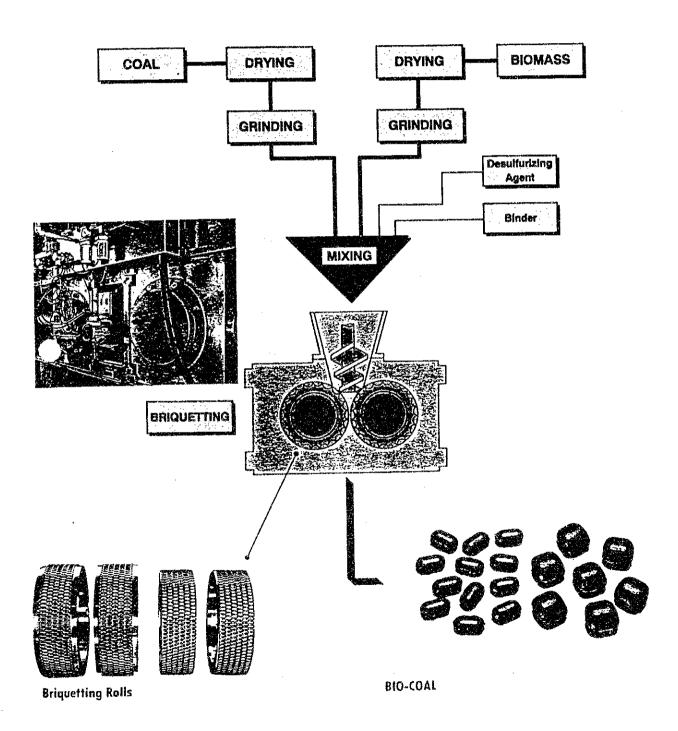




BIO-COAL

The New Clean Burning Fuel by the New Production Process

Bio-Coal is produced by mixing biomass materials (vegetable matter) such as wood fibre or bagasse with coal in a ratio of 10% to 25% and briquetting the mixture with a high compressive force. Depending on the coal grades, a small amount of binder and desulfurizing agent may be required.



Appendix 5 Case Study in the Philippines

Successful Privatization of

Power Generation Business

Appendix 5 発電事業の民営化に成功したフィリピンにおけるケーススタディ

フィリピンは 1989~1991 年に電力設備の能力不足による大規模の停電が継続し、国民生活および産業に大きな打撃を与えた。この危機を乗り切るために政府は Built Operate Transfer (BOT)の手法により大規模の国際的な投資を含む民間投資を発電事業に呼び込み、国の発電能力の 33%に当たる新設備(3,000MW 相当)を 1991~1994 年に建設するのに成功した。しかもその新設備能力の 96%は民間資本によるものである。この BOT の発電事業への導入に当たり政府は次のような法律・規制の改革を行った。

1) 1987年7月、大統領令 No.215

この中で National Power Corporation (NPC)の全国送電に関する責任を明確化し、次の形式の発電につき民間資本 (Shall be allowed) の参入を求め、その場合の条件を明確化した。

- a) Co-generation
- b) NPC の開発計画に沿った発電
- c) 自家用発電中心の場合で余剰を外部に売る
- d) NPC の送電網の外での発電
- * 民営の発電は NPC の制定する Rules and Regulation による
- * その Rules and Regulation は Office of Energy Affair (Department of Energy)と民間団体と 相談して決める。その規則は以下を含む。
 - a) 民間発電業者の資格
 - b) 発電業認可手続き
 - c) 民間発電業者の守るべき責任 (エネルギー効率、技術的信頼性、ペナルティー)
 - d) 電力の購入、送配電についての条件
 - e) その他、本法実現の必要事項

さらに本法に背くすべての既存の法規の廃止が決定されている。

2) Executive Order No.215 : ENERGY REGULATIONS No.1-95 IMPLEMENTING RULES & REGULATION

上記 E.O.215 (1)の実施規則として民間に発電への参入を可能とするために、1995 年 1 月に Department of Energy により制定された。その内容は次のようになっている。

Part I	GENERAL	PROVISIONS OF THE RULES AND REGULATION			
	Article I	Statement of Policy, Scope and Definition of Term			
	Article II	Juridiction of the DOE, NAPOCOR, NEA and ERB			
	Article III	Qualification of A Private Sector Generation Facility and a Private			
		Sector Generator			
	Article IV	General Procedures for Applying for Accreditation as A Private Sector Generation Facility			
	Article V	Right of NAPOCOR & Others on the Design and Operation of the Private Sector Generation Facility			
	Article VI	Obligation of Concerned Parties			
	Article VII	Purchase of Power			
	Article VIII	Rates of Sales			
	Article IX	Operating Standards, Environmental Concerns and Other Matters			
Part II	SPECIFIC I	PROVISIONS FOR COGENERATION AND RENEWABLE			
	Article I	Definition of Cogeneration and Renewable Power Production Facilities			
	Article II	Qualification RRPPPFs and Cogeneration Facilities			
	Article III	Procedurs for Applying for Accreditation as Cogene-RRPPPF			
	Article IV	Obligation of NAPCOCOR And Owner of Qualified Cogene, RRPPPF			
	Article V	Rates for Purchase			
Part III	SPECIFIC PROVISIONS ON BLOCK POWER PRODUCTION FACILITIES				
	Article I	Definition and Qualification of A Block Power Production facility as A Qualified PSGF			
	Article II	Procedures for Applying for Accreditation as A Block Power Production Facility			
	Article III	Obligation of NAPOCOR and Owners of Block Power Production Facilities			
	Article IV	Rates for Purchases and Sales			
	Article V	Operating Procedures and Environmental Concerns			
Part IV	SPECIFIC	PROVISION ON ELECTRIC-UTILITY-OWNED GENERATION			
	FACILITY	医三角性 医电影 医二甲基甲基乙二甲基甲二甲基甲二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲			
	Article I	Qualification as A Private Sector Generation Facility			
	Article II	Procudures for Applying for Accreditation as A Private Sector			
		Generation Facility			
	Article III	NAPOCOR's Relationship			
Part V	OTHER PR	OVISIONS			

3) 他の BOT 関連法規

a) オムニバス投資令 (Executive Order 226)

上記の BOT の投資者に対して政府としての奨励策が公布されている(発電のみならず政府にとって望ましい投資全体)。国内および国外の投資に対して Board of Investment の認める地域における投資に対して以下のような Incentive を与えている。

免税、輸入資本に対する関税引き下げ、二重の労務費控除、外国人の雇用。

b) 外資法 (Republic Act No.7042)

民間電力プロジェクトをPIONEER-STATUS として認めることにより6年間の免税、資本財の無税輸入、国産品の免税、外資送金の保証、外国人雇用の承認などを保証している。

- c) エネルギー庁法(Republic Act No.7638) エネルギーに関する開発、利用、分配およびコンサーベーションについて政府として活動を準備し、統合し、調整し、すべての計画プロジェクトを管理する政府組織として DOE の設立が規定されている。 DOE は 1992 年に設立され民営発電の早急の実現に貢献した。
- d) BOT法 (Republic Act No. 6957)

本法は国益に沿うインフラストラクチャープロジェクトに対する民間の参入に関して各種の枠組みの利用を可能にした。すなわち Built-Operate-Transfer のみならず、BOO、BLT、BTO、CAO などの可能性が開かれた。



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