Appendix 2 Sample Output of Energy Demand Forecast Model

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<u>Appendix 2</u>	Sample Output of E	<u>inergy Demand Forec</u>	Cast Model
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# opendix 2 Sample Output of Energy Demand Forecast Model

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Appendix 3 Sample Form for Energy Audit

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# Appendix 3 Sample Form for Energy Audit

## MONTHLY REPORT FOR ENERGY USE

**Company and Factory Name:** Manager Energy Controller :

Name of Facilities : **Design Capacity :** 

Summary of Operation : **Operation Capacity** : **Operation Factor:** 

Energy Consumed :

	Design	Normal	Current	Ope. Hrs.	Mon. Cons.
FACILITIES					
Fuel (Kg/Hr)	 				
Fuel oil	1 	۱ ۱			
LPG					
Coal	1				
Elec. Power(Kwh)				,	l
Driver					·
Heating				<b> </b>	
Lighting					
Steam (Kg/Hr)					<u> </u>
Heating					
Driver			1	1	ļ
Heat Media (Kcal/Hr)				<u> </u>	<u> </u>

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

	Standard			[		
Fuel (Kg/Hr)						
Fuel Oil		ł				
LPG	-•	• ·				
Coal						
Elec. Power(Kwh)						
Purchased						
Generated						
Consumed						
Loss						
Elec. for Lighting						
Steam ( Kg/Hr)						
Generated(HP)				1		
(MP)						
(LP)						i
to Power Generator					1	
from Power Generator						················
extruct						-
exhaust						
condensate	   			I I		
Power Gener. Eff.						1
Boiler( for power gen.)					]	1
Fuel consump.						
O2 in flue gas						l
Flue gas temp.						
Boiler Eff.			†	1		·
			<u>+</u>	1		;
B			•			

#### (2) Production / Process Facilities

	Standard			- A		
Combustion Equip.	1					
Fuel cons.(Kg/Hr)						
O2 Cont. in flue gas					·	
Flue gas temp.	!					
Cold side fluid		····				
flow rate			·			
in/out temp.						
Heater Eff.						
Electric Motor	1	·····				··· ·· <b>A.</b> ··· · · ····
Ampare	-  					
Power factor				·		
Power cons.(Kwh)						
Indirect Heater					····•·	
Heating Media.				• • • • • • • • • • • • • • • • • • • •	· ···- ··	
Flow rate(Kg/Hr)			v			<b>-</b>
Temp.(in/out)						
Cold side fluid					+	
Flow rate(Kg/Hr)	·	,		·		
Temp.(in/out)		1		 1	1	
Heat transferred				·		
Steam Turbine	··	+			···	
Steam cons.(kg/hr)					i	
Press. (in/out)			-•···		•	<u>∤-</u>
Temp.(in/out)					·	<u>+</u>
			l	1		





Appendix 4 Supplement Technical Information

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# 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.
- 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.

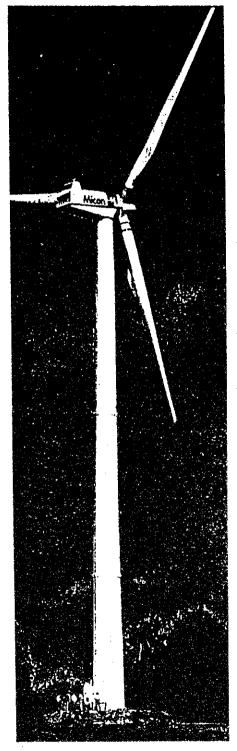
#### 4. Demand and installed capacity in the other countries

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

		Mauritius	<u>مەرىپىيە بەر بەر بەر بەر بەر بەر بەر بەر بەر بە</u>	
	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 Antonie	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
	an a	Rodrigues		an a
	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	1.30	24.7

#### Table A4.1 POTENTIAL OF WIND POWER GENERATION

635



# **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 m<sup>2</sup>.

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.

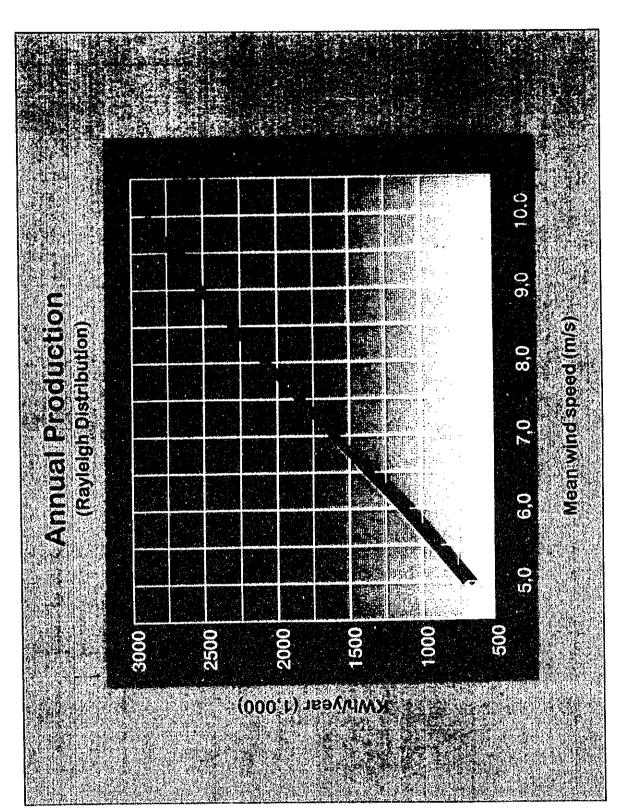
Weights: Tower: 40 t. Nacelle: 19 t. Rotor: 13 t.

Under usual reserve for changes.

# Figure A4.1 MAIN SPECIFICATION OF WIND TURBINE

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

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





# Table A4.3 WIND POWER GENERATION IN THE WORLD

as of Dec.,1995

Country	Output	(MW)	Main sites & 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
			Maasvlakte	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

	Fauloment	nent				Specification	cation	¥	unual Aver	Annual Average Power Generation	Generation	<b>Operation Recard</b>	Recard	
Conntry			Type	Type Number	Number	Diameter	Wind	Output	Wind	Wind Velocity at 10m	0m	Operating	Total	Commissioning
	Manufacture	Model	 		of Blade	of Roter	Velocity					Hours (	Generation	
			-90 101-0-10	<u></u>		( <b>n</b> )	(s/ur)	(kW)	5m/s	6.5m/s	8.0m/s	(ł)	(MWh)	
Canada	Shawinigan	EOLE	4	1	5	61.0	23.0	4,000	3,990	7,105	9,230	480	360	3/88
	Indal Technol	6100	U	7	67	24.4	18.2	522	297	602	1,064	3,000	300	3/88
Denmark	DWT(Blade)	NIBE-A	д	<del>،</del> ما	m	40.0	13.0	630		1,000		6,146	1,313	3/88
	DWT(Blade)	NIBE-B	ρ.,		m	40.0	13.0	630		1,300	14,597	17,800	4,744	3/88
	DWT	WINDANE 40	υ	S	ю	40.0	15.0	750	947	1,861	2,693			3/86
	DWT(Blade)	2MW	₽₄	<del>ب</del> م	'n	60.0	15.0	2,000		4,500				3/88
Italv	Aeritalia	GAMMA 60	ρ,	0	7	60.0	13.3	1,500		4,300				3/88
Germanv	M.A.N.	WKA60	٩	0	ŝ	60.0	12.2	1,200			2,400			10/87
	M.A.N.	GROWLAN	₽.	<b>,</b> −1	(1	100.0	12.0	3,000				350		3/88
	MBB	MONOPT.50	υ	ŝ	Н	56.0	11.0	610			2,000			6/88
	MBB	MONOPT.50	۹	e1	1			5,000					·	8/88
Netherlands Stork-FDD	Stork-FDD	NEWECS 45	<u>д</u> ,	r=4	۲٦	45.0	13.9	1,000			2,300			10/87
Spain	Asinel.M.A.N.	AWEC 60	8	0	ы	60.0	12.2	1,200						8/88
Sweden	KMWAB	WTS-75	ρ.,		2	75.0	12.5	2,000	4,082	6,989	8,821	11,258	13,185	2/88
	Kariskrona-varvet AB WTS-3	WTS-3	д,	<b>F</b> -mi	13	78.0	14.0	3,000	4,883	8,703	11,158	12,732	18,541	8/88
U.K.	WEG	I-S-1	Д,	,	61	60.0	17.0	3,000	1,695	4,319	7,371			10/87
	WEG	LS-2	ρ.	0	2	70.0		2,400						10/87
	Howden	750kW	ሲ		ю	45.0		750						1/86
	Howden	1MW	പ	0	ю	55.0		1,000						
U.S.A	Boeing	MOD-2	ρ.,	4	61	91.4	12.3	2,500	5,171	8,740	10,929	14,400	18,000	1/88
	Boeing	MOD-2(PG&E)	ρц	<b></b> 1	61	91.4	12.3	2,500	5,171	8,740	10,929	9,198	15,165	8/88
	Boeing	MOD-5B	<u>д</u>	+-1	61	0.66	20.5	3,200	6,112	10,623	14,128	4,510	4,996	8/88
	Hami. Standard	WTS-4	ሏ	H	6	78.0	15.0	4,000	4,954	9,919	14,221	4,100	8,000	8/87
	Westinghouse	WWG 0600	U	14	2	43.0	13.0	600	935	1,766	2,447	143,800	34,560	8/88

	No	.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

## Table A4.5 OPERATION RECORD OF MIYAKOJIMA WIND POWER STATION

u znacionalne i Sridili	No	<b>.</b> 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	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				
12				
1				
2				
3				
Total	340,990	26.6	332,900	25.9

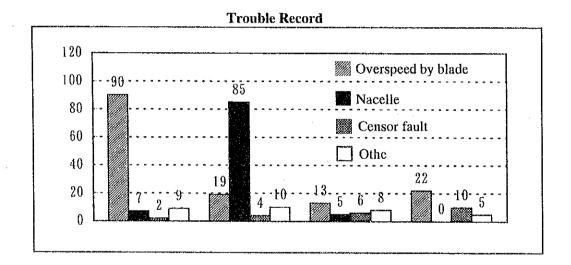
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## Table A4.6 OPERATION RECORD OF TAPPI WIND PARK

## 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	32rpm
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

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/								1996	<u>1</u> 6						Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
	Mean wind speed	(m/s)	6.6	8.0	7.6	6.8	6.2	6.0	6.0	6.1	4.8	6.0	8.4	7.5	6.9
	Generation	(MWh)	471.0	347.2	338.8	282.7	214.9	168.2	213.2	182.2	107.0	185.6	343.3	328.3	3182.4
No.1	I hilipation factor	(%) (%)	46.0	36.3	33.1	28.6	21.0	17.0	20.8	17.8	10.8	18.1	34.7	32.1	26.4
Ňo.5	Operation time rate	(%)	77.3	74.8	66.2	61.8	57.4	62.8	59.4	54.8	39.8	49.8	67.1	62.2	61.1
	Availability	(%)	5.99	100	100	95.7	97.9	100	100	100	100	96.9	94.1	95.6	98.3
	Mean wind speed	(m/s)	10.7	9.6	9.5	10.2	0.6	8.4	9.5	7.7	6.3	7.6	9.2	8.9	8.9
	Generation	(MWh)	539.2	430.3	459.0	510.2	379.1	332.6	463.5	295.0	185.6	266.9	407.6	424.9	4687.6
No.6									<b>.</b>						
$\sim$	Utilization factor	(%)	47.8	41.2	41.1	47.2	34.0	30.8	41.5	26.4	17.2	23.9	37.7	38.1	35.6
No.10	Operation time rate	(%)	80.0	80.5	76.9	80.0	70.0	80.1	78.0	73.2	55.3	58.4	69.4	70.8	72.7
	Availability	(%)	100	100	100	100	91.3	100	100	100	99.2	92.1	92.4	94.9	97.5
-															

	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec	Average
No.1	52.5	56.1	50.9	48.1	34.0	27.4	33.9	25.6	18.8	29.4	46.2	49.5	39.4
No.2	53.4	45.8	37.2	30.9	26.3	19.2	21.0	19.9	13.1	19.6	40.7	37.6	30.4
No.3	50.4	36.6	30.1	19.7	14.7	9.5	8.9	10.8	7.2	15.1	36.3	32.0	22.6
No.4	43.6	26.5	27.9	25.5	16.8	14.9	20.3	17.2	8.2	15.9	30.6	25.6	22.7
No.5	45.1	16.5	19.5	18.6	13.2	13.9	20.1	15.6	6.8	10.7	19.7	15.8	16.7
No.6	45.1	40.5	40.6	49.6	36.7	33.7	43.4	29.2	18.7	25.2	32.4	38.1	36.1
No.7	31.9	28.1	32.7	44.3	25.8	30.0	40.7	26.3	14.0	16.8	30.7	27.7	29.1
No.8	54.7	43.8	40.6	42.7	33.2	27.2	38.6	26.1	16.2	22.8	39.8	38.2	35.3
No.9	42.6	35.6	38.0	46.0	35.1	31.1	43.2	25.1	16.2	21.8	37.9	33.2	33.8
No.10	64.5	58.1	53.7	53.6	39.1	31.9	41.8	25.5	20.9	32.9	47.9	53.1	43.6
No.1-5(Average)	46.0	36.3	33.1	28.6	21.0	17.0	20.8	17.8	10.8	18.1	34.7	32.1	26.4
No.6-10(Average)	47.8	41.2	41.1	47.2	34.0	30.8	41.5	26.4	17.2	23.9	37.7	38.1	35.6
No.1-10(Average)	46.9	38.7	37.1	37.8	27.5	23.9	31.2	22.1	14.0	21.0	36.2	35.1	31.0

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		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
Exnenditure rate / vear	(%)	0.102	0.102	0.102	0.102	0.102	0.102
Interest rate	(%) )	8	~~~~	8	8	<u>∞</u>	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	(Ven/kWh)	50.3	40.0	50.4	39.1	32.7	23.4

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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

#### 1. Taiwan

# 2. Thailand

Year	Installed capacity(MW)	Pcak 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

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# 4. Israel

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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	1.10
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	1.1′
1993	6,116	5,090	1.20
1994	6,346	5,490	1.10
1995	6,920	5,600	1.2

# 5. Central America

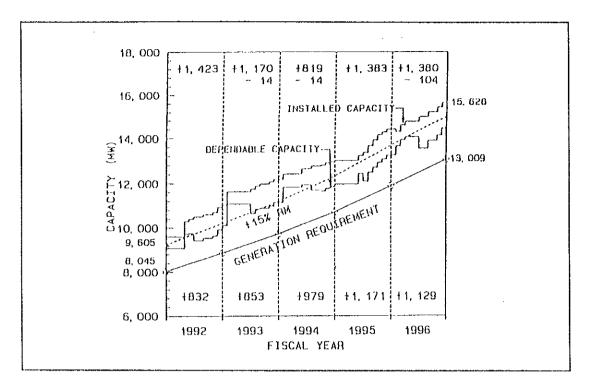
Country	Installed capacity(MW)	Peak demand (MW)	I.C/P.D
Guatemala	836	495	1.69
El Sadvador	650	447	1.45
Honduras	525	377	1.39
Nicaragua	363	271	1.34
Costa Rica	1,006	717	1.40

# 6. Okinawa in Japan

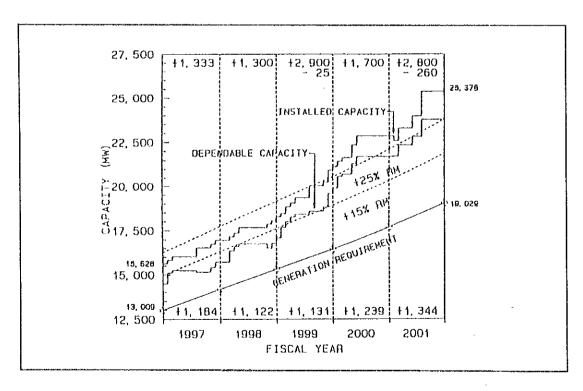
6. Okinawa in Japan					
Year	Installed capacity(MW)	Peak demand (MW)	I.C/P.D		
1996	1,630	1,280	1.27		

### 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	1.8
1998	421	249	1.69
1999	440	271	1.62
2000	465	288	1.6
2001	469	315	1.4
2002	494	344	1.4
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



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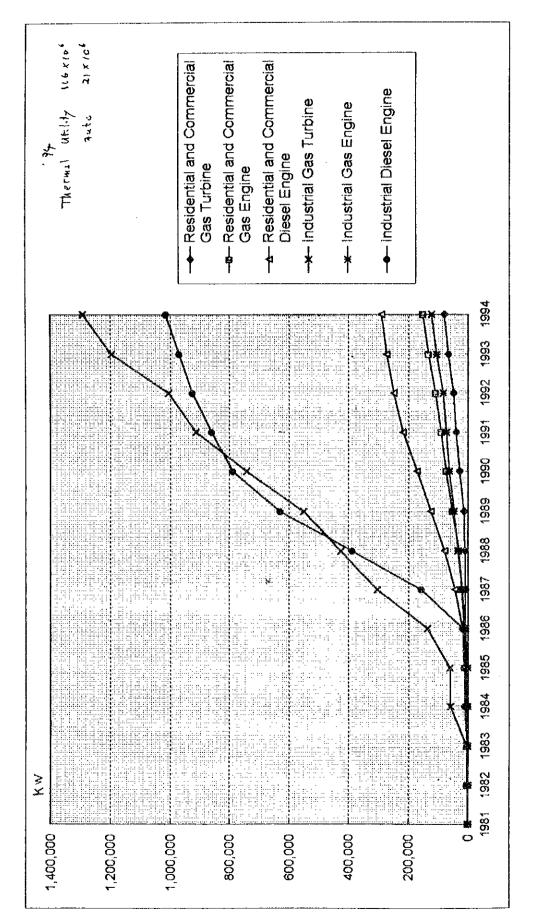
# **CO-GENERATION PROJECTS IN JAPAN**

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)	

### E: ELECTRICITY C:COOLING W:HOT WATER H:HEATING CT: CAS TURBINE E:GAS ENGINE DE:DIESEL ENGINE

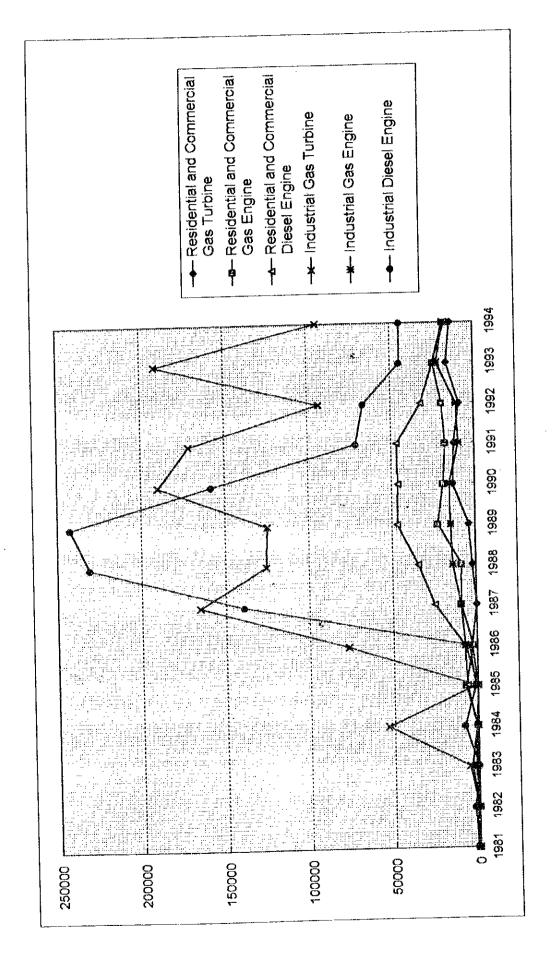
### **GENERAL STATISTICS**

Engine Type	Number of Project	Total Cap (x 10 <sup>3</sup> kwh)		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	





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## 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 ( $^{\mathbb{C}}$ )	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.

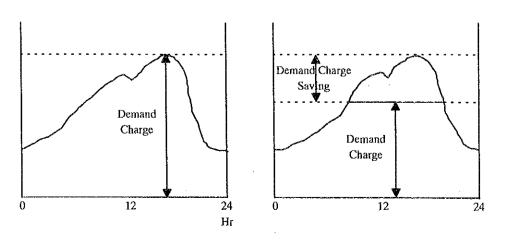
Viability Depend

\* 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**

の語言

# 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. The 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  $400^{\circ}$ ) and thus emission smoke will not occur. Since each Bio-Coal briquette has been formed by high compressive force, during combustion, briquettes will not 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.

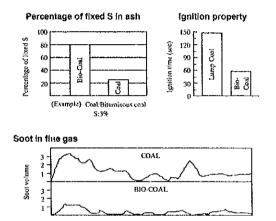
> Though a binder may be added depending on the coal grades, the addition rate of such binder can be reduced due to the briquetting by high compressive force.

(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

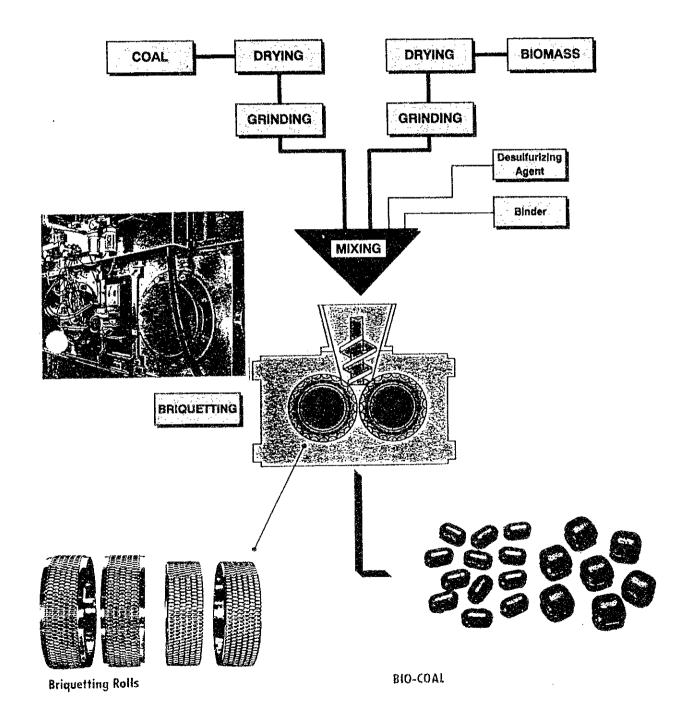
The Bio-coal is suitable as a domestic clean burning fuel for stove, boiler or cooking, as well as industrial applications : such as greenhouse boilers, and boilers for office, apartment or institutions.



# **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

# <u>Appendix 5 Case Study in the Philippines Successful</u> <u>Privatization of Power Generation Business</u>

The country experienced persistent and extensive power failure in 1989 through 1991 due to the shortage of generation capacity, seriously affecting people's life and industrial activity. The government decided to mobilize private investment, including large-scale international investment, by using the built-operate-transfer (BOT) approach. Between 1991 and 1994, it successfully add 3,000MW of new capacities which represented 33% of the country's total generation capacity. Notably, 96% of the new facilities were built by private investment. To ensure smooth implementation of BOT-based construction projects, the government amended laws and regulations as follows.

1) Executive Order No.215, July 1987

It clearly defines responsibility of National Power Corporation (NPC) for nationwide power transmission and allows private investment in the following types of electricity production, with well-defined conditions:

- (a) Cogeneration
- (b) Power generation in line with NPC's development plan
- (c) Private power generation capacity with planned sales of surplus electricity
- (d) Power generation outside NPC's grid
- Electricity production by private enterprises is governed by rules and regulations established by NPC.
- The rules and regulations are decided by Office of Energy Affair (Department of Energy) in consultation with affected private organizations, including the following:
- (a) Qualification of private power generation operator
- (b) Licensing procedures
- (c) Obligations of private operator (energy efficiency, technical reliability, penalty)
- (d) Conditions of electricity purchase, transmission and distribution
- (c) Other requirements for enactment of the law

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At the same time, existing laws and regulations conflicting the new law have been repealed.

2) Executive Order No.215: Energy Regulations No.1-95 "Implementing Rules and Regulations

As regulations to enforce the previous order, it was issued by Department Energy in January 1995 to allow entry of private enterprises to the power generation business. The general outline is as follows:

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	SPECIFIC PROVISIONS FOR COGENERATION AND RENEWABLE		
	Article I	Definition of Cogeneration and Renewable Power Production		
	Article II	Facilities		
	Article III	Qualification RRPPPFs and Cogeneration Facilities		
	Article IV	Procedurs for Applying for Accreditation as Cogene-RRPPPF		
	Article V	Obligation of NAPCOCOR And Owner of Qualified Cogene, RRPPPF		
		Rates for Purchase		
Part III	SPECIFIC I	PROVISIONS ON BLOCK POWER PRODUCTION		
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	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			
	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	<b>OTHER PR</b>	ROVISIONS		

- 3) Other BOT-related laws and regulations
  - (a) Executive Order on Omnibus Investment (Executive Order 226) This sets forth government incentives for private investors under the BOT system (covering investment projects desirable for the government, not limited to power generation). A variety of incentives are granted to domestic and foreign investment in any of the areas approved by Board of Investment; namely tax exemption, lowered tariff rates on imported capital goods, double deduction of labor cost, and employment of expatriate workers.
  - (b) Foreign Investment Act (Republic Act No.7042)

Power generation projects by private enterprises are granted pioneer status to guarantee six-year tax exemption, non-tariff imports of capital goods, tax exemption on locally produced goods, guarantee of fund transfer to foreign countries, and authorized employment of expatriate workers.

(c) Department of Energy Act (Republic Act No.7638)

5. 1997 The act authorizes the establishment of DOE as a government agency to prepare, integrate, coordinate government activities related to energy development, utilization, distribution, and conservation, and to manage all projects. DOE was established in 1992 and has contributed greatly to early realization of privatization of power generation business.

#### Extraction from Republic Act No-7638 (Department of Energy Act 1992)

Power and Functions - The Department of Energy shall have the following powers and functions:

a. Formulate policies for the planning and implementation of a comprehensive

program for the efficient supply and economical use of energy consistent with the approved national economic plan and with the policies on environmental protection and conservation and maintenance of ecological balance, and provide a mechanism for the integration, rationalization, and coordination of the various energy programs of the Government;

- b. Develop and update the existing Philippine energy program which shall provide for an integrated and comprehensive exploration, development, utilization, distribution, and conservation of energy resources, with preferential bias for environment friendly, indigenous, and low-cost sources of energy. The program shall include a policy direction towards the privatization of government agencies related to energy, deregulation of the power and energy industry, and reduction of dependency on oil-fired plants. Said program shall be updated within nine (9) months from the effectivity of this Act and submitted to Congress within ten (10) days from its completion and not later than the fifteenth day of September every year thereafter;
- c. Establish and administer programs for the exploration, transportation, marketing, distribution, utilization, conservation, stockpiling, and storage of energy resources of all forms, whether conventional or nonconventional:
- Exercise supervision and control over all government activities relative to energy projects in order to attain the goals embodied in Section 2 of this Act;
- e. Regulate private sector activities relative to energy projects as provided for under existing laws: *Provided*, That the Department shall endeavor to provide for an environment conducive to free and active private sector participation and investment in all energy activities;
- (d) BOT Act (Republic Act No.6957)

The act enables the use of various innovative mechanisms for participation of the

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private sector in infrastructure projects which serve the national interest,. These mechanisms include BOO, BLT, BTO, and CAO, in addition to BOT.

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