## **Appendix 2 Management and Administration**

- Appendix 2-1: Annual Balance Sheet of Energy and Finance of EUMP in 2009
- **Appendix 2-2 : System of Administrative Task**
- **Appendix 2-3 : Check List for Base line survey**
- **Appendix 2-4 : List of Things to Do before March 2009**

Appendix 2-5: List of Things to Do before November 2009

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**Appendix 2= 9 : Power and Duty for Administration Division** 

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**Appendix 2-12 : Employment Regulation** 

**Appendix 2-13 : Regulation for Control of the Corporation's Vehicles** 

**Appendix 2-14 : Disciplinary Code** 

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**Appendix 2-16 : List of Things to Do before February 2010** 

**Appendix 2-17 : Work Flow of Each Administration Staffs** 

Appendix 2-18 : List of Things to Do by September 2010

**Appendix 2-19 : Billing book** 

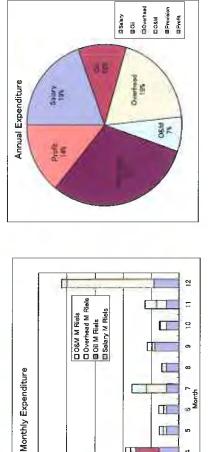
Appendix 2-20 : Annual financial report of EUMP

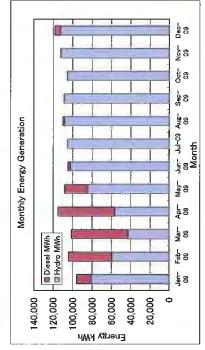
Annual Balance Sheet of Energy and Finance of EUMP in 2009

Exchange Rate Oil Price Fuel Efficiency 1.633 Riel/kWh 14.2% Tariff Profit

0.714 US\$/Litter 4,200 Riel/US\$ 3.000 Riel/Litter 0.31 Litter/kWh

		Generation	otian		Consumption	-	Tartef.	Involue	1	Revenue	Sidery	01	Overhead	OBM	Sub-tutal	Provision	Provision (Deposit for Future)	Future)	Cont	Wh/Cost	Profit	
Divis	Hydera	Dissel	Turbal	Ol Spend	E L	Lines 1	meaning.	N Rum		M Fich	M Rich	U Ries	M Finis	M. Rinte	M Reds	Hydro M Riels	O&M M Rein	Total M Rises	Total M Rink	(Inovioa) Wate	M Rich	
20-Nov-08	53,113	1,331	54,444	413	37,580	31%	1,831	68,796	5	68,659	28,051	48,544	41,038	30,388	148,021	4,940	5,400	10.340	158,360	4,214	-89,701	-131%
2 20-Dec~08	80,221	3,811	84,032	1,181	59,844	29%	1,852	110,813	4%	106.691	28,051	0	38,807	30,388	97,245	7,461	5,400	12,861	110,106	1,840	-3,415	-3%
3 20-Jan-09	80,894	15,129	96,023	4,690	69,720	27%	1,993	138,960	%	136,158	21,104	41,848	2,594	4,530	70,074	7,523	33,750	41,273	111,348	1,597	24,811	18%
4 20-Feb-09	59,494	44,684	104,178	13,852	83,554	20%	1,670	139,549	4 %	134,311	21,104	40,453	30,159	14,266	105,981	5,533	33,750	39,283	145,264	1,739	-10,953	-8%
5 20-Mar-09	42,767	58,448	101,215	18,119	78,241	23%	1,676	131,138	<u>چ</u>	130,413	23,178	40,453	29,041	6,575	99.246	3.977	33,750	37.727	136,973	1,751	-6,560	-5%
6 20-Apr-09	56,572	58,366	114,938	18,093	89,381	22%	1,872	149,454	ž	145,425	34,864	42,406	9,036	8,873	95,178	5,261	33,750	39,011	134,189	1,501	11,236	8%
20-May-09	84,770	23,233	108,003	7,202	87.146	19%	1,672	145,745	ž	140.925	22,182	0	6,081	6,919	35,181	7,884	33,750	41,634	76,815	881	64,111	45%
8 20-Jun-09	102.165	2,753	104,918	1.057	86,396	18%	1,665	143,808	<del>1</del> %	142,230	22,199	D	5,067	8,956	36,222	9,501	33.750	43,251	79,473	920	62,756	44%
9 20-Jul-09	105,240	36	105,276	1	89,548	15%	1,549	138,707	3%	134,519	22,175	0	36,163	25,608	83,946	9.787	33.750	43,537	127,483	1,424	7,036	5%
10 20-Aug-09	108,256	1,544	109,800	602	90,057	18%	1,562	140,696	១៥	133,725	22,886	0	7,721	716	31,323	10,063	33,750	43.818	75,141	834	58,584	44%
20-Sep-09	108,458	310	108,768	112	91,743	16%	1,558	142,902	5%	135,726	43,554	0	5,216	8,537	57,306	10,087	33,750	43,837	101,143	1.102	34,583	25%
12 20-Oct-09	105.229	85	105,314	32	87,121	17%	1,542	134,368	2%	131,337	22,701	0	11,242	1,730	35,673	9,786	33.750	43,536	79,209	909	52,127	40%
13 20-Nov-09	111,858	353	112,211	127	95,393	15%	1,566	149,410	2%	146,078	22,512	0	18,133	20,527	61,172	10,403	33,750	44,153	105,325	1,104	40,753	28%
14 31-Dec-09	112.498	5,734	118,232	1,950	100,252	15%	1.569	157,247	4%	150,800	45.374	0	154,473	9,106	208,954	10,462	33.750	44.212	253,166	2.525	-102,367	-68%
-Y2001	1,078,201	210.675	1.286.676	05.540	1.048.552	15%	1,633	1.711.984	N	1,661,847	023.833	105,158	314,925	116,341	920,257	100273	405,000	\$05.273	1 429.530	1.360	236,118	34.2%
					Total (11	Total (1000 Lise)	-	CO LOP	1					1	The second				Tour States		-	





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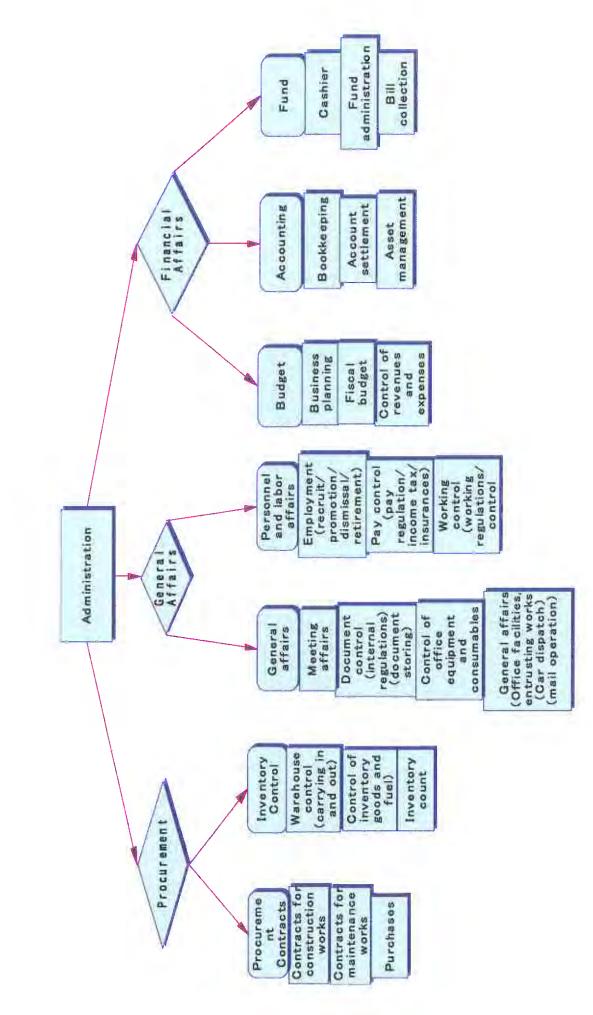
F

50,000

250,000

200,000

Appendix 2-2 : System of Administrative Task



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## Appendix 2-3 : Check List for Base Line Survey

## Check List

## ■有(have)

## □無(have not)

- 1. Internal Regulations
- □ Articles of incorporation/Organization/Meetings
- □ Work division/Powers/Responsibilities
- □ Operating rules(Accounting/General Affairs/Personnel/Procurement)

#### 2. Accounting Books

- 🗆 Journal
- □ General Ledger
- 📕 Cashbook
- $\Box$  Asset Register

#### 3. Account Settlement & other reports

- $\Box$  Form of account settlement statements
- □ Form of reporting to EAC
- □ Form of reporting to JCC and relevant authorities

#### 4. Control of Budget & Income and Expenditure

- $\Box$  Form of business plan
- Form of annual budget
- □ Form of income/expenditure control
- $\Box$  Form of cashflow control
- 5. Metering/Billing/Collection
- Form of electricity supply contract (incl. application form)
- Form of customer management (customer list)
- Form of metering
- Form of billing and receipt

## 6. Personnel

- $\Box$  Form of employment contract
- □ Form of payroll (salary, personal income tax, insurance)
- $\Box$  Form of attendance sheet

## 7. General Affairs

- $\hfill\square$  Form of minutes of meeting
- $\hfill\square$  Form of document control
- □ Form of control of office equipment/furniture & consumables
- □ Form of contract for office facilities and entrusted works
- □ Form of business trip (application & order)

## 8. Procurement

- □ Form of construction contracts (application-approval-order to work-contract)
- □ Form of contract for maintenance works (application-approval-order to work-contract)
- □ Form of purchase (application-approval-contract)

## 9. Inventory Control

- □ Form of warehouse control (carrying in & carrying out)
- $\hfill\square$  Form of control of stored goods and fuel
- $\Box$  Form of inventory control

### List of Things to Do before March 2009

- 1. Preparation of Attendance Sheet for EUMP's staff (administrative and technical sections)
- 2. Preparation of Rules and Regulations for:
  - 1) Organization (including the purpose of EUMP, the definition and powers of management board, and organizational chart)
  - 2) Powers and responsibilities: Director, Sub-directors, Section Chiefs
  - 3) Task division of EUMP's personnel
- 3. Start of book keeping from January 1, 2009: journal and general ledger
- 4. Investigation of Company Law, Tax Law, Accounting Law, Labor Law

#### List of Things to Do before November 2009

The Administrative Division must do the following things by the time shown in each item and gives them to the secretary of JICA project team, so that she can make translation and send them to JICA project team in Tokyo.

1. Prepare and authorize the internal regulation for billing system based on the proposed billing system by JICA project team and the actual operation of EUMP. Once prepared, send the internal regulation of billing system to EAC and its English version to JICA project team.

This task has not been done before June, so it must be finished before the end of July 2009 to send to EAC.

- Establish the internal regulations regarding "Regulation on Organization and Powers and Duties", "Employment Regulation", "Disciplinary Code", "Regulation for Control of the Corporation's Vehicles" and "Disciplinary Code" as well as "Articles of Incorporation" <u>before the end of July 2009</u>.
- 3. Prepare the workflow and process description of the tasks of each administration staff, including the explanation of the steps of each task in a similar way to the proposed billing system by JICA project team. Once prepared, send its English version to JICA project team <u>before the end of August 2009</u>.

#### 4. Investigation of Company Law, Tax Law, Accounting Law, Labor Law

This task has not been done either. San Darith is responsible for company law in relation with "Articles of Incorporation", Ty Soyatra is responsible for Accounting Law to learn whether the accounting method is in compliance with the Accounting Law, Chres Malout is responsible for Tax Law to learn what kinds of taxes shall be paid by EUMP and Im Vichet is responsible for Labor Law in relation with "Employment Regulation". Once the respective reports have been prepared, give them to the secretary of JICA project team, so that she can make translation and send them to JICA project team in Tokyo <u>before the end of July 2009</u>.

## **Appendix 2-6 : Articles of Incorporation**

## **Articles of Incorporation**

#### Section 1 General

(Name of Corporation)

Article 1 This Corporation is named as Electric Unit of Mondul Kiri Province, shortly called EUMP.

#### (Foundation)

Article 2 This Corporation was founded as a public corporation by the Ministry of Industry Mines and Energy of Cambodian government with its Directive No. 1305 on 26<sup>th</sup> December 2006 for the purpose stated in the following article.

#### (Purpose)

Article 3 This Corporation has the purpose of doing the following businesses:

- (1) Generating electric power;
- (2) Transmitting and distributing electric power;
- (3) Supplying electric power to Senmonorom city and nearby areas of Mondul Kiri Province of Cambodia;
- (4) Battery charging;
- (5) Investment in such other businesses as will be approved as necessary for the business of the corporation; and,
- (6) Any other businesses associated with the above businesses.

#### (Main Offices)

Article 4 The main offices of the Corporation is registered at Senmonorom city of Mondul Kiri Province of Cambodia.

(Organization)

Article 5 The Corporation has the following organizations:

- (1) Joint Steering Committee
- (2) Board

#### Section 2 Ownership and Operation

(Ownership)

Article 6 The Corporation is owned by Cambodian government.

(Operation)

Article 7 The Corporation shall be operated with financial independence.

#### Section 3 Joint Steering Committee

(Joint Steering Committee)

Article 8 The Joint Steering Committee (shortly called JSC) is composed of the representatives from: the Ministry of Industry Mines and Energy of Cambodia, Electricity Authority of Cambodia, the Department of Industry Mines and Energy of Mondul Kiri Province, Electricite du Camodge and the Corporation.

(Convocation of a meeting of the Joint Steering Committee)

Article 9 A regular meeting of the Joint Steering Committee shall held in XXXX every year.

An extraordinary meeting may be held as necessary by the motion of any of the members of the Joint Steering Committee. A meeting, regular or extraordinary, shall be convoked by the representative of the Ministry of Industry Mines and Energy.

2 The meeting of the Joint Steering Committee shall be convoked at Senmonorom city or Phnom Penh.

(Chairmanship of a meeting of the Joint Steering Committee)

Article 10 The meeting of the Joint Steering Committee shall be chaired by the representative of the Ministry of Industry Mines and Energy.

(Resolution of the meeting of the Joint Steering Committee)

Article 11 Resolutions of the meeting of the Joint Steering Committee shall be made by majority vote.

(Agenda of the meeting of the Joint Steering Committee)

Article 12 The following issues shall be included in the agenda of the regular meeting of the Joint Steering Committee:

- (1) Appointment and dismissal of the board members of the corporation, when necessary; and,
- (2) Approval of the financial statements of the Corporation
- (3) Revision of the articles of incorporation of the Corporation, when necessary.

#### Section 4 Board of the Corporation

(Number of the board members)

Article 13 The Corporation has three (3) board members: one (1) Director and two (2) Deputy Directors.

(Appointment and dismissal of the board members)

Article 14 The board members of the Corporation shall be appointed or dismissed by the resolution of the Joint Steering Committee.

(Term of office of the board members)

Article 15 The term of office of the board members shall be three (3) years and may be extended or shortened by the resolution of the Joint Steering Committee.

(Board meeting)

Article 16 A board meeting shall be convoked and chaired by the director as needed.

2 In the absence or disability of the director, other board member shall convoke and chair the board meeting in accordance with the rank order predetermined by the board meeting.

3 Resolutions of the meeting shall be made by unanimous consensus of the board members.

(Agenda of the board meeting)

Article 17 The following issues shall be included in the agenda of the board meeting as needed:

(1)Approval of internal regulations and their improvements and elimination;

- (2) Long and mid-term planning;
- (3)Decision of important investments;
- (4) Approval of annual budget;
- (5) Approval of financial statements;
- (6)Employment and dismissal of employees of the Corporation; and,
- (7)Personnel performance evaluation and salary review.

(Representation of the Corporation)

Article 18 The Corporation shall be represented by the director of the Corporation.

2 The director of the Corporation shall supervise and control the businesses of the Corporation.

3 In the absence or disability of the director, other board member shall substitute the duties of the director in accordance with the rank order predetermined by the board meeting.

#### Section 5 Accounting

(Accounting year)

Article 18 The accounting year begins on the 1<sup>st</sup> January and ends on the 31<sup>st</sup> December every year.

#### **Supplementary Provision**

The present Articles of Incorporation shall come into force as from dd/mm/year.

## Appendix 2-7: Regulation on Organization and Powers and Duties

#### **Regulation on Organization and Powers and Duties**

#### Section 1 General

(Purpose)

- Article 1 This regulation establishes the necessary organization for executing the Corporation's businesses and the exercise of powers and duties of each duty position.
- Article 2 The organization and its operations shall be aimed to promote the Corporation's business purposes through good partnership of each section of the organization based on their self-imposed responsibilities and business efficiency and streamlining.

#### Section 2 Top Management

#### (Director)

Article 3 The Director shall preside over the execution of the Corporation's businesses in line with resolutions of the Corporation's Board.

#### (Deputy Directors)

Article 4 The Deputy Directors shall assist the Director and act as his proxy when the Director is in absence or disability according to the following order:

First: Deputy Director in charge of Administration Division

Second: Deputy Director in charge of Technical Division.

The Deputy Directors shall be responsible for the execution of duties of their respective Division as Division Manager.

### Section 3 Organization for Operations

(Organization for Operations)

Article 5 The Corporation's organization for operations shall have the organization units shown in the Appendix 1 "Organization Chart" attached hereto.

#### (Duty Position)

Article 6 The Organization for Operations shall have the following duty positions.

Division Manager Division Head Section Chief Group Leader

#### Group Member

The duty position of each personnel is shown in Appendix 3 "Task Assignment of the Personnel" attached hereto.

#### (Powers and Duties)

Article 7 Each of the duty positions shall have the powers and duties shown in Appendix 2 "Powers and Duties of Division".

The superiors shall give appropriate commands and directions as needed in the exercise of their assigned duties to their subordinates. The subordinates shall execute their assigned duties according to the commands and directions given by their superiors and shall ask for approval and report the progress and results of the execution of the duties to their superiors. The commands and directions and the approvals and reporting shall be given according to the line of command and control as shown in the Appendix 4 "Line of Command and Control" attached hereto.

(Proxy when in absence or disability)

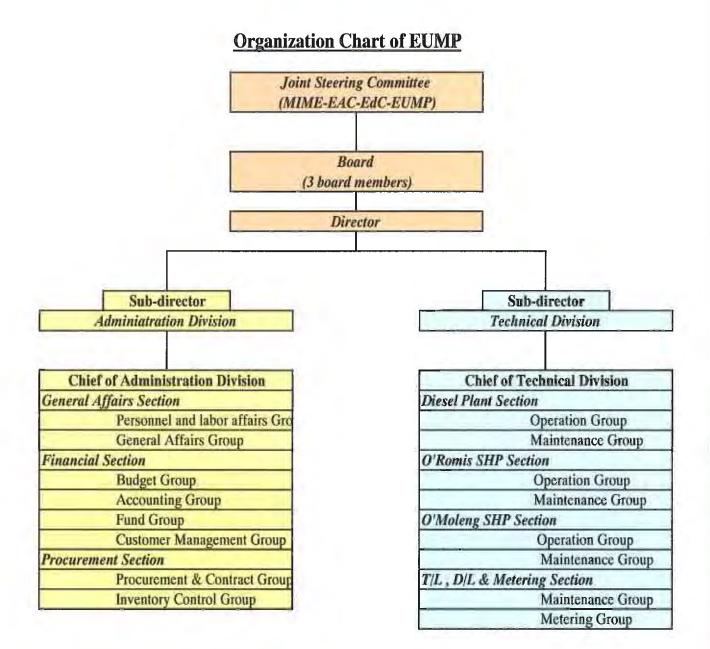
Article 8 When a superior is in absence or disability, the subordinate designated in advance by such a superior shall act as his proxy.

#### **Supplementary Provision**

1. This regulation shall come into force as from 1<sup>st</sup> July 2009.

#### **Appendices:**

- 1. Organization Chart
- 2. Powers and Duties of Division
- 3. Task Assignment of the Personnel
- 4. Line of Command and Control



	Administration Div	/ision	
Section	Group	Task Code	Task Description
General Affairs Section		AG	
	Personnel and Labor Affairs Group		
		7101	Employment
			i) recruit
		AGP 1	ii) promotion
		AGET	iii) dismissal
			iv) retirement
			Pay control
		AGP 2	i) pay regulation
			ii) pay raise
			iii) payroll
			Working control
		AGP 3	i) working regulation
			ii) attendance sheet
	General Affairs Group	AGA	
			Meeting affairs
		AGA 1	i) meeting arrangement
			ii) minutes of meeting
			Document control
		AGA 2	i) internal regulations
			ii) filing & storing
			Control of office equipment &
			consumables
			i) office equipment
		AGA 3	& furniture
			ii) consumables
			iii) car dispatch
			Safety control
			i) power plant
		AGA 4	ii) working safety
			iii) safety regulation
			iv) disciplinary code
			Miscellaneous affairs
			i) entrusting works
		AGA 5	ii) mail operations
			iii) public relations
			iv) others
inancial Section		AF	
	Budget Group	AFB	
			Business planning
			i) Long & mid-term planning
		AFB 1	
			ii) Long & mid-term planning
			iii) Report to EAC
			iv) Power rate change
		I	
			Fiscal budget
		AFB 2	i) budgeting policy

## Appendix 2-9: Power and Duty for Administration Division

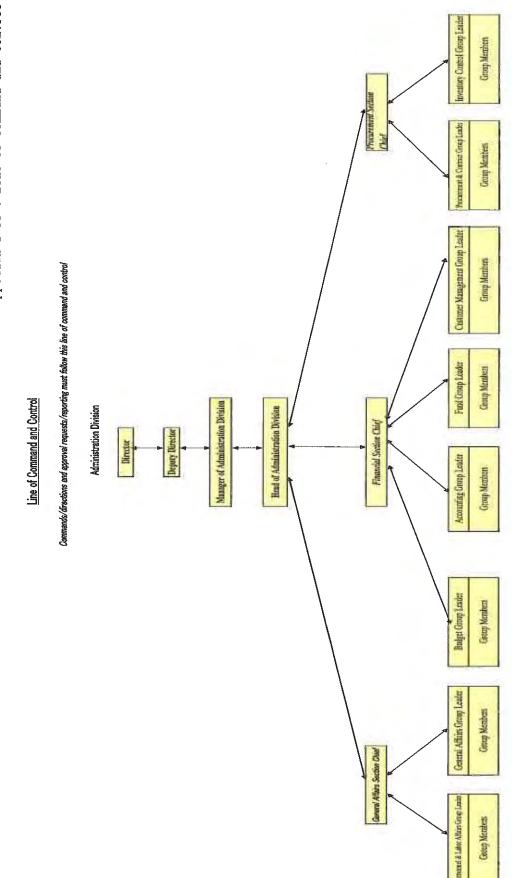
	Administration	Division	
Section	Group	Task Code	Task Description
		AFB 3	Control of revenues and expenses i) check of receivables & payables ii) examination of expenses
	Accounting Group	AFA	
		AFA 1	Bookkeeping i) journal ii) ledger
		AFA 2	Account settlement i) Balance sheet ii) Income statement iii) Financial report to MIME
		AFA 3	Asset management i) Fixed asset register ii) Inventory book
	Fund Group	AFF AFF 1	Cashier i) cash receipt ii) cash payment iii) cashbook keeping iv) cash safekeeping & bank deposit
		AFF 2	Fund administration i) cash planning ii) borrowing
	Customer Management Group	AFC	
		AFC 1	Customer management i) customer book ii) billing book
		AFC 2	Bill collection i) record of meter measurements ii) issue of electricity bill & receipt
Procurement Section		AP	
	Procurement Group	APP	
		APP 1 APP 2	Contracts for construction works Contracts for maintenance works
		APP 3	Purchases
	Inventory Control Group	API	
		API 1	Warehouse control i) warehouse bookkeeping ii) record of carrying-in and - out
		API 2	Control of inventory goods and fuel i) periodical inventory check ii) inventory count for account closing

## Appendix 2-10 : Power and Duty for Technical Division

Section	Group	Task Code	Task Description
General Technical Section		TG	
		TG	
		TG 1	General matter i) employment ii) evaluation of staff activities iii) working control iv) safety control v) metering
		TG 2	Document control i) operation records ii) maintenance records iii) fault & emergency records iv) daily, monthly and yearly operation plan
		TG 3	Long & Mid-term plan and budget i) maintenance plan ii) scheduled inspection plan iii) tool & spare parts procurement plan
		TG 4	Asset management i) fixed asset register ii) inventory book iii) maintenance of Administration office building
)' Moleng HP Section		ТМ	
		тм	Safety and quality control of operation and maintenance work at O'Moleng HP
		ТМ 1	Working control i) working regulation ii) attendance sheet iii) operators shift schedule
		ТМ 2	Data/records control i) operation records ii) Water level at Intake weir and Sedimentation iii) maintenance records iv) fault & emergency records v) daily, monthly and yearly operation plan vi) Long & Mid-term Plan
		тм з	Operation and maintenance i) daily operation ii) daily, monthly and yearly maintenance iii) trouble shooting
		тм 4	Operation of civil facilities i) Intake gate ii) Sand flushing gate
		тм 5	Maintenance of civil facilities i) Removing the garbage in front of the screen ii) Small repairment
		TM 6	Daily, weekly, monthly Patrol for the civil structures i) Concrete structure, gate, penstock, access road and slope protection ii) Safety check around the area (Gate lock, keeping off outsiders, etc.)
		TM 7	Repairment planning of civil facilities

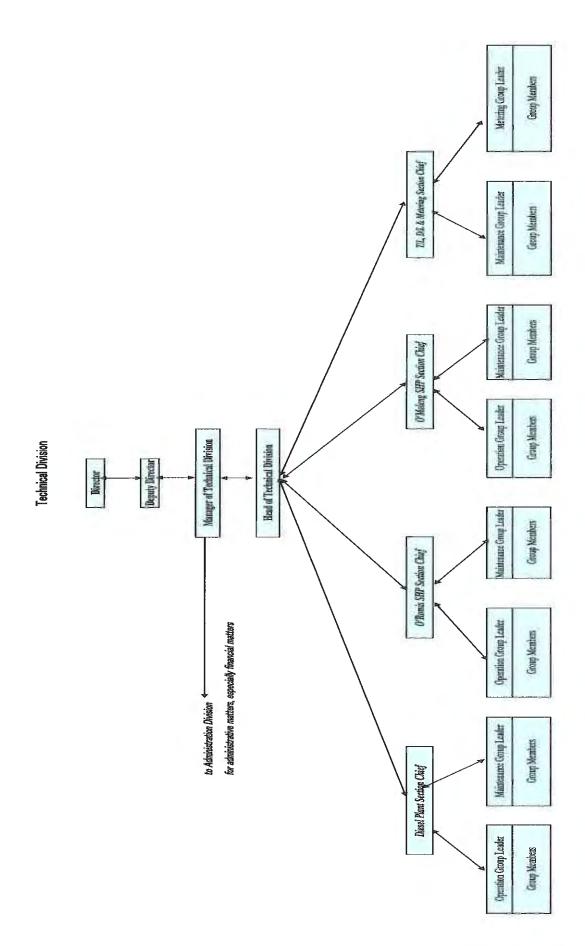
		Technical Div	vision
Section	Group	Task Code	Task Description
O' Romis HP Section		TR TR	Safety and quality control of operation and maintenance work at O'Romis HP
		TR 1	Working control i) working regulation ii) attendance sheet iii) operators shift schedule
		TR 2	Data/records control i) operation records ii) Water level at Intake weir and Water way and Head Tank iii) maintenance records iv) fault & emergency records v) daily, monthly and yearly operation plan vi) Long & Mid-term Plan
		TR 3	Operation and maintenance i) daily operation ii) daily, monthly and yearly maintenance iii) trouble shooting
		TR 4	Operation of civil facilities i) Intake gate ii) Sand flushing gate
		TR 5	Maintenance of civil facilities i) Removing the garbage in front of the screen ii) Small repairment
		TR 6	Daily, weekly, monthly Patrol for the civil structures i) Concrete structure, gate, penstock, access road and slope protection ii) Safety check around the area (Gate lock, keeping off outsiders, etc.)
		TR 7	Repairment planning of civil facilities
Diesel Plant Section			
		TD	Safety and quality control of operation and maintenance work at Diesel Plant
		TD 1	Working control i) working regulation ii) attendance sheet iii) operators shift schedule
		TD 2	Data/records control i) operation records ii) maintenance records iii) fault & emergency records iv) daily, monthly and yearly operation plan
		тр 3	Long & Mid-term plan and budget i) maintenance plan ii) scheduled inspection plan iii) tool & spare parts procurement plan
		TD 4	Operation and maintenance i) daily operation ii) daily, monthly and yearly maintenance iii) trouble shooting
		TD 5	Maintenance of civil and building facilities

Section 1	Crown	Technical Div	
Section	Group	Task Code	Task Description
/L, D/L and Metering Section		<u> TT</u>  TT	Safety and quality control of operation and maintenance work of T/L and D/L facilities
		тт 1	Working control i) working regulation ii) attendance sheet
		тт 2	Planning of T&D activity i) Long & Mid-term Plan, Budget ii) Daily Activity Plan (Operation, Maintenance and Construction)
		тт з	Check of T&D operation i) Analyzing of operating condition (Load, T&D Loss, Voltage drop) ii) Measuring of Current & Voltage
		тт 4	Scheduled Outage Operation i) Making a switching procedure ii) Notification to customers iii) Ordering switching operations iv) Doing switching operations v) Record of result
		ТТ 5	Fault Outage Operation i) Decision of the method how to restore ii) Ordering each action to restore iii) Searching and restoration of fault iv) Record of result
		ТТ 6	Maintenance of T&D facilities i) Patrol & inspection ii) Record of result iii) Negotiation with owner of obstruct close to T&D line iv) Control of spare parts v) Maintaining of working tools
		тт 7	Customer's request or claim i) interruption of power supply ii) abnormal voltage iii) Wh Meter broken iv) Wh Meter checking
		TT 8	Construction of T&D facilities i) Making a specification of constructions ii) Constructing iii) Supervising construction work iv) Inspection of the result v) Revising Facility book
		тт 9	Customer contract issues i) Technical review of supply application ii) Connection work iii) Metering iv) Delivery of invoices v) Temporary disconnection & re-connection vi) Removal of Wh meter from ex-customers



Appendix 2-11 : Line of Command and Control

A2-20



A2-21

## **Appendix 2-12 : Employment Regulation**

## **Employment Regulation**

Chapter 1 General

(Purpose)

Article 1 This regulation stipulates the working conditions of the personnel of the Corporation.

(Classification of the Personnel)

Article 2 The following is the classification of the personnel of the Corporation:

- (1) Director
- (2) Deputy Director
- (3) Division Manager
- (4) Division Head
- (5) Section Chief
- (6) Group Leader
- (7) Staff I
- (8) Staff II
- (9) Staff III

(Application or Notification)

Article 3 When an application or notification is necessary according to this regulation, such application or notification shall be made in the prescribed form.

(Relation with Law)

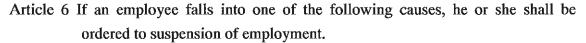
Article 4 Where there is no stipulation in this regulation or there is some infringement on the relevant laws of Cambodia, such law shall be obeyed.

Chapter 2 Personnel Affairs

(Employment)

- Article 5 A newly-employed person shall submit to the Division Manager of Administration the following documents:
  - (1) Curriculum vitae
  - (2) Certificate of academic background and/or qualification
  - (3) Other document for personnel control

(Suspension of Employment)



(1) 3 months or longer absence from work due to accident or sickness not related with work: 1-year suspension of

employment

(2) Public service for 3 months or longer:

Same period of public service

(3) Punitive suspension of employment:

Same period of punitive suspension of employment

- (4) 3 months or longer absence from work due to his or her personal circumstances: period determined by the Corporation
- (5) Unclear situation of life or death or whereabouts

(6) Other special reason: period determined by the Corporation

(Resumption of Employment)

Article 7 The employee under the suspension of employment shall notify his or her resumption of employment to the Division Manager of Administration.

(Compulsory Retirement Age)

Article 8 The compulsory retirement age is 60 years old, provided that this age may be extended for a determined period when the Corporation deems necessary.

(Retirement)

- Article 9 If an employee falls into one of the following causes, he or she shall be deemed to do retirement.
- (1) Application for retirement due to his or her personal circumstances
- (2) When the period of suspension of employment due to (1), (4) or (5) of Article 6 ends.
- (3) When the compulsory retirement age is reached.
- (4) When he or she dies.
- 2. In the case of (1), the employee shall make an application of retirement 2 weeks ahead indicating the day and reason of retirement to the Division Manager of Administration. He or she shall obey the instructions given by his or her superiors

including handover of his or her tasks.

- 3. In the case of (3), the day of retirement shall be the end of the month to which the day of the compulsory retirement age belongs.
- 4. In the case of (4), he or she shall be removed from the register of the Corporation.

(Dismissal)

- Article 10 If the employee falls into one of the following causes, he or she shall be dismissed:
- (1) When he or she receives punitive dismissal;
- (2) When he or she is deemed to be unable to continue work because of considerable physical or mental disability;
- (3) When the Corporation falls into unavoidable circumstances.

## Chapter 3 Working Rules

(Working Discipline)

Article 11. The employees shall observe the rules and regulations and the order of the Corporation and shall perform their duties according to their superiors.

(Confidentiality)

Article 12. The employees may not disclose confidential information to any others, whether it has relations with their duties, during the period of their employment and after their retirement.

(Types of Working)

Article 13. The types of working are: Normal work and Shift work.

(Working Hours) Article 14. The working hours are as shown in the table below.

Туре	s of working	Working hours	Starting time	<b>Closing time</b>	Break time
No	rmal work	8 hours/day 176 hours/month	7:00	17:00	11:00-13:00
Shift work	Shift 1	9 hours/day	7:00	16:00	
	Shift 2	5 hours∕day	16:00	21:00	
	Shift 3	10 hours/day	21:00	7:00	
	180	hours/month			

When the employees come to the office and leave the office, they shall record the arrival and departure time in the attendance sheet.

(Holiday)

Article 15. The followings are holidays.

- (1) Sunday
- (2) Public holidays

Notwithstanding the foregoing, the Corporation may order employees to work in holidays.

(Overtime and holiday work)

Article 16. When deemed necessary for the Corporation, the Corporation may order employees to work overtime or in holidays.

(Late Arrival and Early Departure)

- Article 17. When an employee arrives one hour or less later than the starting time, this shall be deemed to be late arrival. When an employee leaves the office two hours or earlier than the closing time, this shall be deemed to be early departure.
- 2. Three times of late arrival or early departure shall be deemed to be one work absence.
- 3. If an employee wishes to do late arrival or early departure, he or she shall ask his or her superior for it beforehand. Otherwise, because of unavoidable circumstances, he or she shall notify it to the superior without delay.
- 4. In the case of disaster, traffic accident or other cause of force majeure, late arrival or early departure may be treated as attendance of work.

## (Half-holiday)

Article 18. When an employee works only for half of the working hours, this shall be deemed to be half-holiday. Two half-holidays shall be deemed to be one work absence.

## (Work Absence)

- Article 19. When an employee wishes work absence or half-holiday, he or she shall ask his or her superior for it with its reason beforehand. Otherwise, because of unavoidable circumstances, he or she shall notify it to the superior without delay.
- 2. If work absence continues for more than five days, a medical certificate shall be submitted to the superior.

(Work Absence without Notice)

Article 20. If an employee is absent from work without asking for it beforehand or without post notification, this shall be deemed to be work absence without notice.

(Long work absence)

Article 21. If work absence continues for more than a month, the period of such work absence shall be counted including holidays within.

2. An employee who was absent from work for more than one month resumes his or her attendance but become absent again within ten days because of the same reason, the periods of long work absence shall be combined.

(Paid Leave)

- Article 22. The annual paid leave is 20 days. The unused paid leave may be carried over to the next year.
- 2. When an employee wishes to take a paid leave, he or she shall notify it to his or her superior beforehand. If the superior consider it necessary to change the timing and period of the asked paid leave on account of smooth business of the Corporation, such timing and period may be changed.

## Chapter 4 Salary and Allowances

(Salary)

Article 23. The salary of the employees shall be stipulated in the pay scale determined by the Corporation.

(Retirement Allowance)

Article 24. When an employee retires or is dismissed, retirement allowance may be paid according to the pay scale determined by the Corporation.

(Travelling Expense)

Article 25. When an employee is order to do business trip, travelling expense shall be paid as follows.

Chapter 5 Compensation

(Accident Compensation)

- Article 26. When an employee may receives compensation for injury, sickness or death because of work according to the determination of the Corporation.
- 2. When an employee causes damage to body and/or property of others, compensation shall be paid according to the determination of the Corporation, provided that such damage is not due to willful misconduct or gross negligence of the employee.

Supplementary Provision

This regulation shall come into effect as from 1<sup>st</sup> July 2009

# Appendix 2-13 : Regulation for Control of the Corporation's Vehicles

#### Regulation for Control of the Corporation's Vehicles

#### (Purpose)

Article 1 This regulation stipulates the matters regarding the control and operation of the vehicles owned by the Corporation.

#### (Definition of Vehicles)

Article 2 In this regulation, vehicle means any cars, trucks, and motorcycles, whether owned or leased by the Corporation for its conduct of business.

#### (Controller)

Article 3 The general control shall be exercised by the Manager of Administration Division and the routine control shall be exercised by the General Affairs Section.

#### (Control Book of vehicles)

Article 4 The General Affairs Section shall prepare a control book of vehicles to register all vehicles with the following descriptions:

- (1) Type of vehicle, major repairs with cost and cause of repair
- (2) Main purpose of use of vehicle
- (3) Major repairs: date of repair, part of repair, cost and cause of repair
- (4) Date of inspection of vehicle
- (5) Date of retirement or selling-out of vehicle
- (6) Record of accidents
- (7) Insurance
- (8) Tax

#### (Custody of Key)

Article 5 The key of vehicles shall be in the custody of the General Affairs Group. The key may not be taken out without permission of the Section Chief of General Affairs.

#### (Permission of Use of Vehicle)

Article 6 Before an employee uses a vehicle, he or she shall submit a permission of use of vehicle to his or her superior for approval and then shall submit it to the General Affairs Section for approval by the Manager of Administration Division. Immediately after use of vehicle, he or she shall return the vehicle to the designated parking lot of the Corporation and shall return the key together with the permission.

#### (Inspection of Vehicle)

Article 7 Vehicles shall be inspected and kept in good conditions. When the driver finds some trouble or poor maintenance, he or she shall report it to the General Affairs Section.In the case of trouble due to carelessness or rude driving of the driver, all or part of the repair cost may be charged to the driver.

#### (Driving of Vehicle)

Article 8 Driving shall be conducted in compliance with law.

- (2) Driving shall be permitted only to the designated drivers
- (3) When an accident occurs, the driver shall take measures stipulated by law and inform the Manager of Administration Division and the General Affairs Section for instruction.
- (4) When an accident occurs, no private settlement may be done personally without consultation with the Corporation.

#### (Private Use of Vehicle)

Article 9 No use of vehicle shall be permitted for commuting to work or private use except when permission is given by superior.

(Responsibility for fines)

Article 10 When an employee violates traffic law and fines are imposed on him or her, the Corporation shall not assume any responsibility for it.

#### (Punition)

Article 11 When an employee cause an accident of vehicle, such an employee shall be given punition according to the Discipline Code of the Corporation. If compensatory payment are made by the Corporation, the Corporation may claim indemnity for it to the person responsible for the accident.

#### **Supplementary Provision**

This regulation shall come into effect as from 1<sup>st</sup> July 2009.

## **Appendix 2-14 : Disciplinary Code**

## **Disciplinary** Code

## (Purpose)

Article 1 This Code is to stipulate punition on employees of the Corporation.

Article 2 Punition shall be determined in a cautious manner and processed without delay by the board of the Corporation.

(Cause for punition)

Article 3 Punishment shall be given for one of the causes enumerated below:

- (1) Poor attendance to work such as prolonged absence without permission;
- (2) Disturb order and debase morale of the Corporation;
- (3) Profiteering by use of duty position or through work of the Corporation;
- (4) Leakage of confidential information of the Corporation;
- (5) Willful acts or gross negligence causing disbenefit or damage to the Corporation;
- (6) Acts causing damage to the reputation or loss of credibility of the Corporation;
- (7) Poor supervision on subordinate; and,
- (8) Other acts violating the regulations of the Corporation.

(Category of punition)

- Article 4 Punition shall fall into the following five categories and determined by the importance of the causing act:
- (1) Reprimand: caution for future;
- (2) Pay cut: monthly reduction of salary at a fixed rate for a period of one month to six months;
- (3) Suspension of attendance: daily suspension of attendance to work for a period;
- (4) Punitive suspension of employment: monthly suspension of employment for a period of one month to three months;
- (5) Punitive dismissal: Immediate dismissal

(Criteria for punition)

Article 5 The criteria for punition shall be as shown in the Annexes 1 and 2 attached hereto.

(Record of punition)

Article 6 Punition shall be recorded officially.

(Deletion of recorded punition)

Article 7 Recorded punition may be deleted from official record of the Corporation if the employee receiving the punition woks in a diligent manner and with a high achievement for a considerable period.

Supplementary Provision

This code shall come into effect as from 1<sup>st</sup> June 2009.

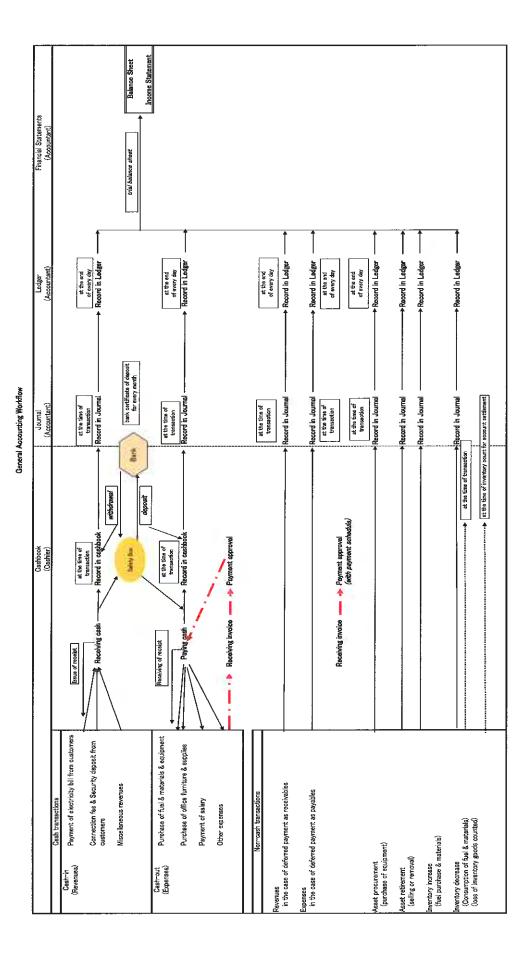
punition	
for	
Criteria	
÷	F
Annex	

Cause for Punition			Punition
			Reprimand or pay cut according to
1 Vialstian of remilstions may work norformence			the degree of breach of discipline
			Suspension of attendance in the case of important
			breach
2. Fraudulent handling of money or property	by accident or negligence		Reprimand
of the Corporation	by negligent conduct of work		Reprimand or pay cut
	by fraudulent handling		
3. Fraudulent procurement of money or property	by fraud		Dismissal
of the Corporation	tus abatea atian	common abstraction	Dismissal or suspension of attendance
		temporary borrowing	Suspension of attendance, pay cut or reprimand
	by common bribery		Dismissal, suspension of attendance or pay cut
4. Bribery	in the case of small sum or		Suspension of attendance, pay cut or reprimand
	other relievable considerations		
	by common act to lose credibility of the Corporation		Reprimand
5. Credibility	by act leading to the considerable loss of credibility		Suenension of attendance or dismissal
	of the Corporation		
6 Door einemieine	by common poor supervision		Reprimand
	by considerably poor supervision		Pay cut
7 Violation of traffic law	See the Anney ? for detail		Reprimand, pay cut, suspension of attendance
			or dismissal

Contraction for a contraction
Annex 2: Criteria for punition due to violation of traffic law

Cause for punition		Punition
1. Accident causing bodily injury or death		Dismissal or suspension of attendance
by unlicensed or drinking driving		for 6 months or less
2. Accident causing property damage		Succession of attendence for R months or less
by unlicensed or drinking driving		 CREARING OF RECEIVANCE TO A INVITUS OF 1653
3. Unlicensed and drinking driving		Suspension of attendance for 4 months or less
4. Unlicensed driving exceeding the legal maximum speed		Suspension of attendance for 3 months or less
t Initian driving		Pay cut for 3 months or less, 1-month suspension
		of attendance or reprimand
6. Drinking driving exceeding the legal maximum speed		Suspension of attendance for 6 months or less
7 Drinking driving		1-month suspension of attendance or pay cut
		for 3 months or less
	50km/hr or more	Pay cut for 1 month or reprimand
8. Driving exceeding the legal maximum speed	30km/hr to 50km/hr	Reprimand or light reprimand
	less than 30km/hr	Light reprimand or warning
9. Violation of either of the above causing malicious accident		Dismissal
10 Wilffill failure to report of the shove violations or accidents		1-month suspension of attendance or pay cut
	2	for 3 months or less
11 Other malicious vilolation and accident than the above		Dismissal or suspension of attendance
		for 2 months or less
12. Accident by gross negligence due to other cause thant the above		Pay cut for 1 month or reprimand
13. Accident by carelessness due to other cause than the above	ove	Light reprimand or warning
14. Willful failure to report of other violations or accidents than the above		Light reprimand or warning
15. Ride together knowing the drinkin driving of the driver		1-month suspension of attendance or pay cut
		for 3 months or less
16. Drinking driving causing death or serious injury, failing to aid victims		Dismissal or suspension of attendance for 6 months or less

Appendix 2-15 : General Work Flow for Accounting Works



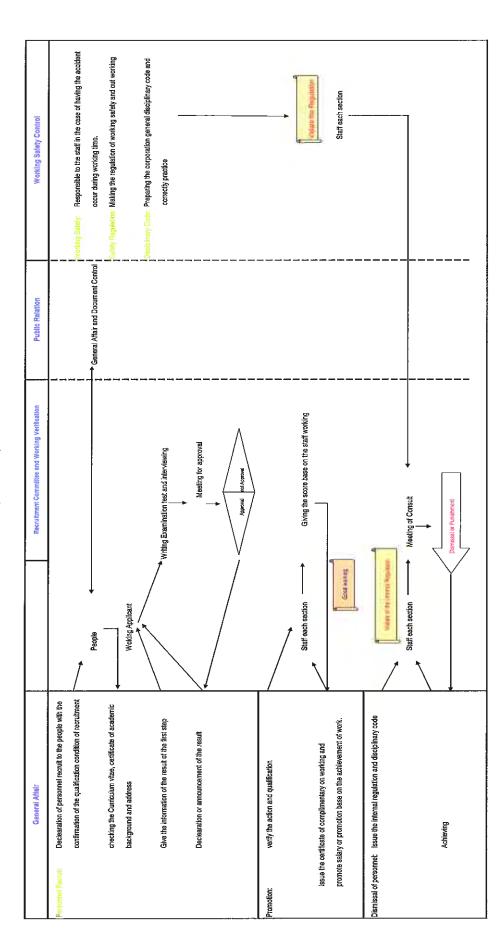
### List of Things to Do before February 2010

The Administrative Division must do the following things by the time shown in each item and gives them to the secretary of JICA project team, so that she can make translation and send them to JICA project team in Tokyo.

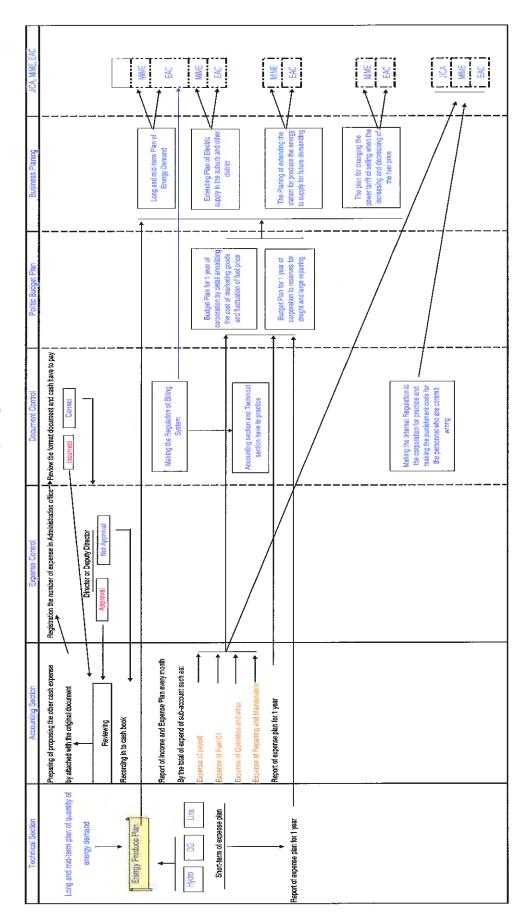
- Authorize and issue the internal regulations regarding "Billing System", "Regulation on Organization and Powers and Duties", "Employment Regulation", "Disciplinary Code", and "Regulation for Control of the Corporation's Vehicles" as well as "Articles of Incorporation" *in early December 2009*.
- 2. Make inventory count of the warehouse together with the technical staff <u>in December</u> to be reflected in the balance sheet of EUMP as of the end of December.
- 3. Introduce a permanent salary system together with overtime payment system to replace the temporary salary system to start from January 2010.
- 4. Consider temporary payment for traveling expenses and make a decision in December.
- 5. Make analysis of incomes and expenses of 2009 and prepare annual budget for 2010 *in December to start from January 2010*.

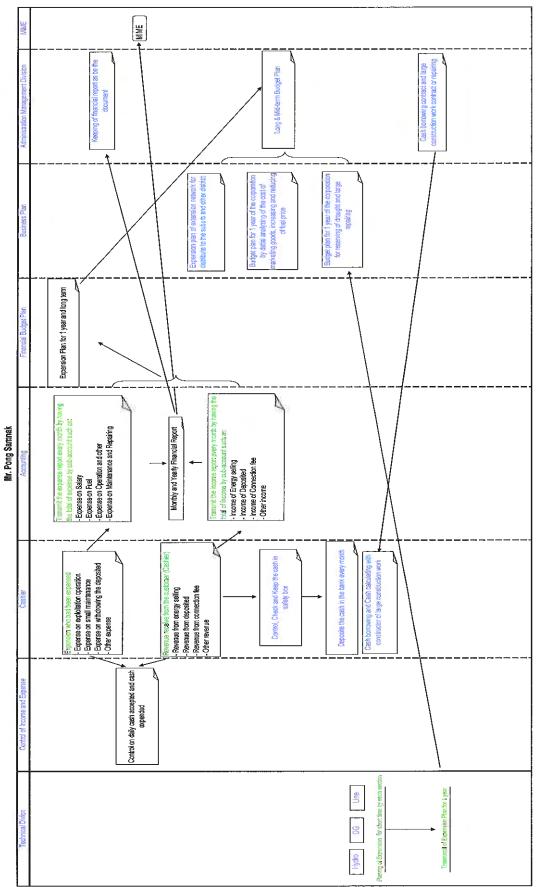
### Appendix 2-17 : Work Flow of Each Administration Staffs

## San Darith Dep-Director in charge of Administration and Accounting Section Workfow (Administration)

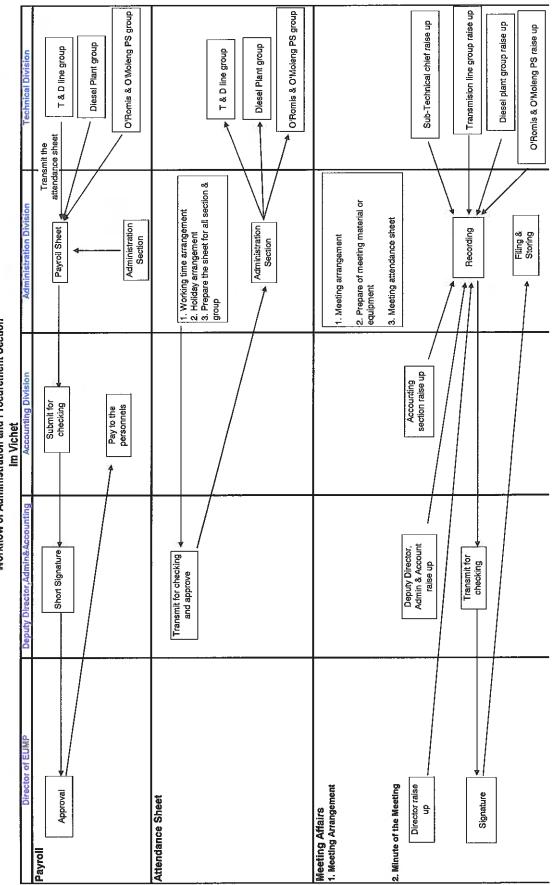


San Darith Dep-Director in charge of Administration and Accounting Section Workfow (Accounting)

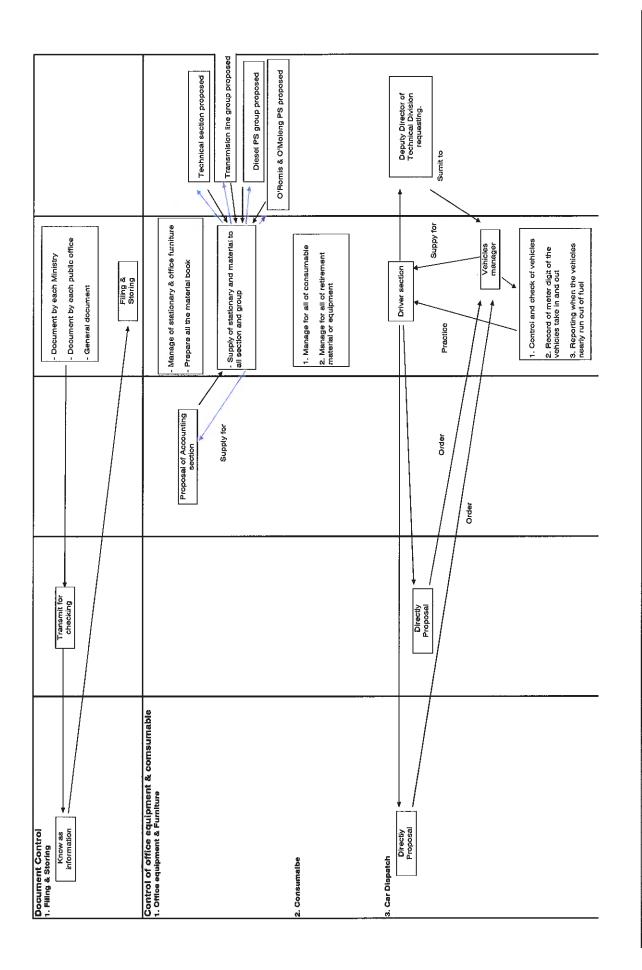


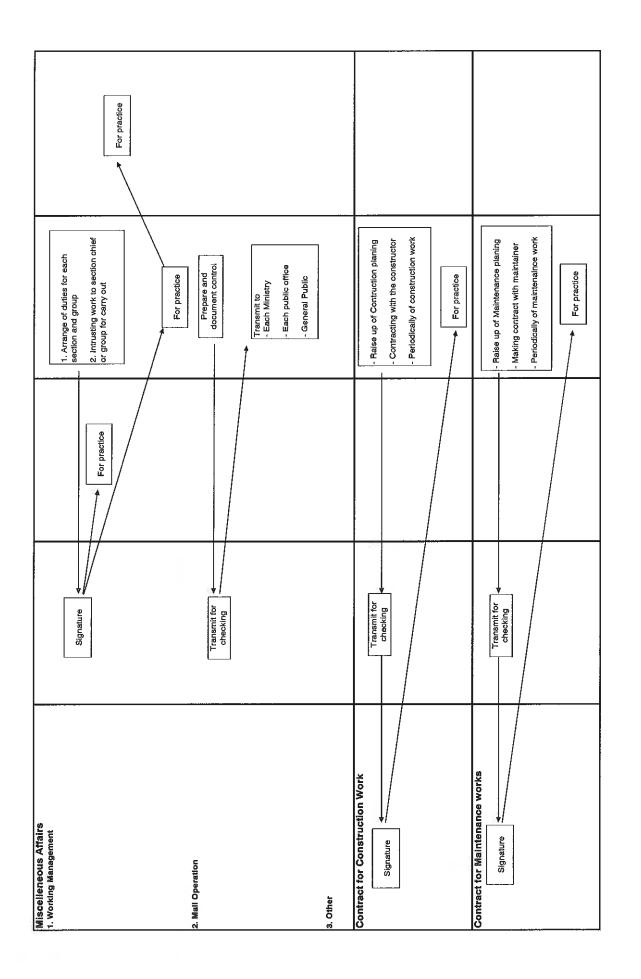


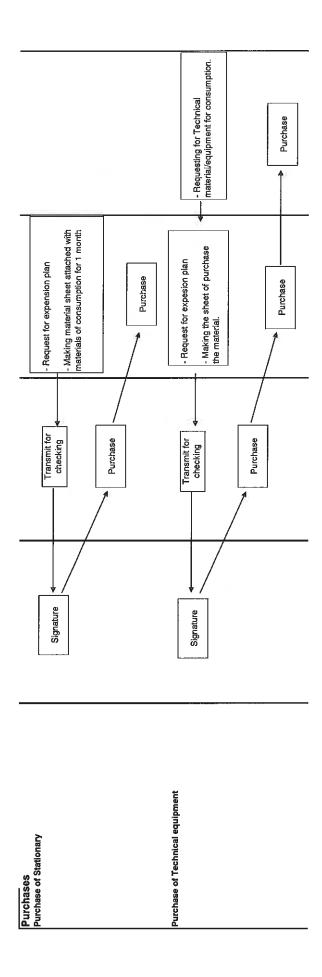
Workflow of Accounting Chief

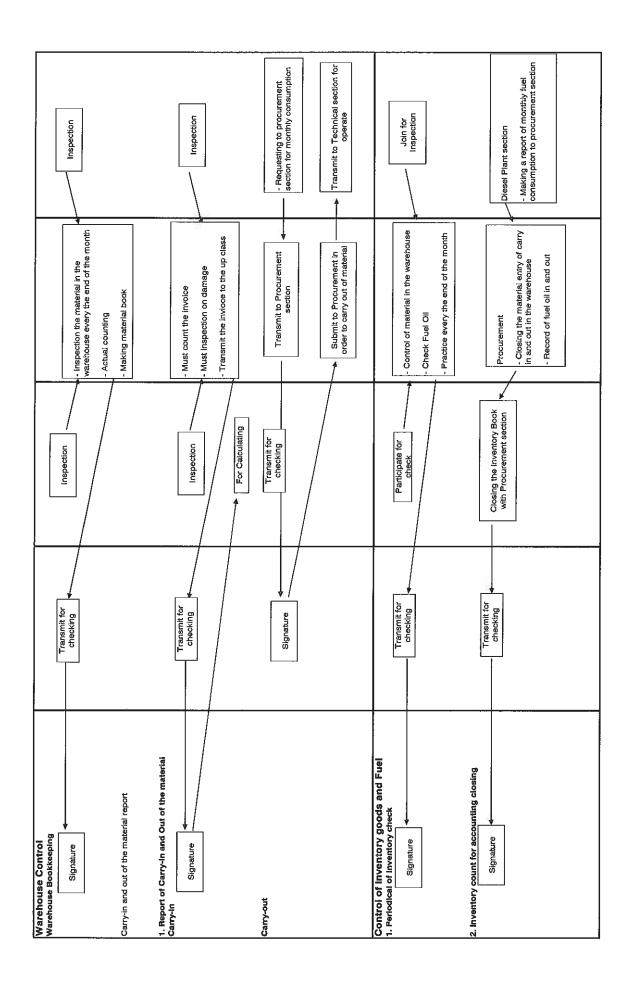


Workflow of Administration and Procurement Section





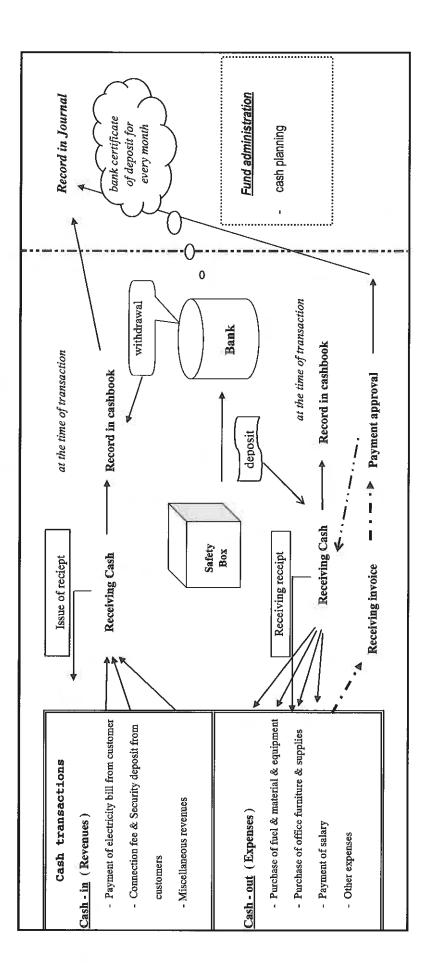




	Financial Statements (Accountant)	2						Balance Sheet		,	MIME									
	Ledger ( Accountant)			Record in Ledger			Record in Ledger					Record in Ledger	Record in Ledger	,		Record in Ledger	Record in Ledger	Record in Ledger	Record in Ledger	-
	Journal ( Accountant)			Record in Juomai			Record in Juomal					Record in Juomal	Record in Juomal			Record in Juomal	Record in Juomal	Record in Juomal	Record in Juomal	
Workflow	Cash book ( cashier )			Record in cash book		/	Record in cash book								Receiving invoice Payment approval (With payment schedule )					at the time of transactione
		Cash transactions	Cash -in Payment of electricity bill from custumers	(Revenues) Connection fee & Securit deposit from custumers	Miscellaneous revenues	Cash -out Purchase of fuel & materials & equipment (Expenses)	Purchase of office furniture & supplies	Payment of salary	Other expenses	Non-cash transaction	Revenues	In the case of deferrend payment as receivables	Expenses In the case of deferrend payment as Payables			Asset procurement (Purchase of equipment)	Asset retirement (Selling or removal)	inventory increase (tuel purchase & materials)	Inventory increase	(Consumption of fuel & materials ) (Loss of inventory goods counted)

Ty Suyatra Assistant Accounting

G ENERNILACCOUNTING W ORGIOM





### List of Things to Do through September 2010

The Administrative Division must do the following things in each item and gives them to the secretary of JICA project team, so that she can make translation and send them to JICA project team in Tokyo. It is to be noted that the monthly reports mentioned below must be sent to JICA project team before the end of the first week of the respective next month.

- 1. Accounting Report for 2009 (for MIME & EAC)
- 2. Monthly report of budget execution: comparison between the budget and actual revenues and expenses showing the percentage of execution for each budget item
- 3. Monthly report of Balance Sheet and Income Statement
- 4. Monthly report of the amount of cash on hand to (must be actually counted) and bank deposit (must be evidenced by bank certificate): these amounts must be checked with the corresponding items of the Balance Sheet
- 5. Monthly record of warehouse control: if something is purchased and carried in to the warehouse, it must be recorded about its name, quantity and amount of money paid and if something is carried out of the warehouse, it must be recorded about its name, quantity and recorded amount of money; and, such transactions must be entered in the Balance Sheet.

### A2-51

### ສຂລເຂຍຽຊຂາສ່

<b>โลสาชร</b>	າລາເອເບງ		ថ្ងៃទី	ខែ	ឆ្នាំ ២០	0៩
Total	1111	86396	143,807,600 R	72	21	1090
Street-Light P- 36 OR 066	1 2	972 230	1,555,200 R 368,000 R	0	0	1 2
P-35	11	738	1,180,800 R	0	1	10
P-34	16	3212	5,139,200 R	0	0	16
P-33	19	875	1,413,800 R	1	1	18
P-32	31	1302	2,083,200 R	0	0	31
P-31	20	2200	3,829,600 R	3	0	20
P-30	26	1219	1,950,400 R	0	0	26
P-29	32	2096	3,483,600 R	3		32
P-28	5	71	113,600 R	0	. 0	5
P-27	10	254	406,400 R	0	- 0	10
P-26	12	448	716,800 R	0	0	12
P-25	10	901	1,566,800 R	1	0	10
P-24	5	194	310,400 R	Ö	0	5
P-23	17	586	937,600 R	0	0	17
P-22	19	1087	1,748,000 R	1	0	19
P-21	30	991	1,585,600 R	0	0	30
P-20	45	1795	2,894,200 R	1	0	45
P-19	75	3012	4,877,400 R	3	2	73
P-18	8	311	497,600 R	0	0	8
P-17	40	3572	6,002,800 R	3	2	38
P-16	263	18155	29,953,200 R	13	4	259
P-15	41	4756	8,131,200 R	4	0	41
P-14	46	3601	6,083,200 R	4	2	44
P-13	6	604	1,043,600 R	2	. 0	6
P-12	13	991	1,652,200 R	4	1	12
P-11	37	5244	8,744,200 R	3	0	37
P-10	10	1045	1,745,200 R	1	0	10
P-09	30	1968	3,167,000 R	1	1	29
P-08	16	905	1,534,400 R	1	0	16
P-07	20	1605	2,734,400 R	2	0	20
P-06	30	1768	2,828,800 R	0	1	29
P-05	35	1971	3,153,600 R	0	1	34
P-04 H	1	1835	2,936,000 R	0	0	1
P-04		4980	8,521,200 R	7	1	51
1-05	2.3	510	830,800 N			

### អខ្នតាពអគ្គិសនីខេត្តមណ្ឌលគឺ៖ **Bill Management Section**

สอดที่สุดรัส

Total of Kwh

5633

4751

518

មន្ទីទ្វេស្សរមាកឲ្យពី តិ១៩រមពលទេពួមលាលពី

donmidde

Total of Customer

28

26

23

**HORIDON** 

Number of

Transformer

P-01

P-02

P-03

### เฉพราณส์สรุษรูอราแขญธิรัพษษฐรรมสรีชีรอรามสูงอัญษรได้ (หิชุลา 2006 )

Appendix 2-19 : Billing book ( Example : Data of June 2009) ត្រោះរាជាឧសាចក្រកម្ពុជា

> ឋាត៌ សាសនា ព្រះមចារក្សត្រ 5

> > ត្រូកគណនេយ្យពុលាត់

มีการสายเย

Total income

9,911,600 R

8,170,000 R

836,800 R

**C**QAR

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ចិត្តតាមគ្នានីអំឈូម្នា

Total Involce

Issung

26

25

22

### Appendix 2-20 : Annual Financial Report of EUMP (A part of Example)

DEF	ARTMENT OF INDU			GY		LANCE SHE							RELIG	AMBODIA ION KING
	PROVINCE (	EUM	(P)		At	31st December 2	009					·	ris	
	ASSETS			THIS YEAR		LAST YEAR		EQUIT	¥&LIABI	LITTES		THIS	YEAR	LAST YEAR
			GROSS	DEPRECIATION	NET						-			
	Land	211	2,000,00	0,000	2,000,000,000	2,000,000,000,00					110	180	,651,940	
	Building	213	23,595,61	6,800 1,376,158,934	22,219,457,866	23,394,701,866	4							
SET	Generators	2151	9,934,60	6,000 1,159,016,866	8,775,589,134	9,769,049,734	~	Profit T	his Year		120	978	,700,461	180,651,94
SS	Transmis&Distri.Line	2154	13,057,93	2,000 475,940,267	12,581,991,733	12,988,008,533	1 '	Equipm	ent Subven	tion	131	49,051	,784,000	49,051,784,00
A	Transport Equipment	2182	578,63	2,000 54,963,067	523,668,933	463,260,133		Subvent	ionTransfe	rt To				
FIX	Informatic Equipment	2183	18,15	3,000 199,200	17,953,800	996,000	0 E	Result A	ccount		139	-3,066	,359,259	-437,993,734
Γ.	Office Equipment	2184	13,90	2,950 80,925	13,822,025	809,250							_	
		2751	41,500	0,000	41,500,000	41,500,000								
	TOTAL		49,240,342		46,173,983,491	48,658,325,516	1	то	FAL EQUI	rrv		47 144	,777,142	48,794,442,200
	10111			5,000,033,233	40,173,263,491	40,030,343,310			IAL EQUI	11		47,144	57775142	40,174,442,40
		3221	40,455	9,632	40,459,632	48,285,283		Deposit	Receive		1655	146	,720,000	108,920,000
⊢		3222	23,58		23,585,280	4,062,850		- op com			1000		<u>,, _</u> u,uuu	100,720,000
SSE	Clients				·									
AS		411	121,051		121,051,100	56,130,800	国			·	——			
TY	Cash in Bank	512	826,121		826,121,970	68,572,860	LIABILITI	<u> </u>					$\rightarrow$	
CURRENT	Cash in Transit	531	88,669	9,669	88,669,669	45,153,947	II	<u> </u>						<u> </u>
E S	Temporarily Borrow	534	1,200	),000	1,200,000	22,830,950	IAI							
5	Charge to be spread over several period	481	16,426		16,426,000		ГЩ I							
	TOTAL		1,117,513			245 026 600		TOTA					720.000	100 000 000
	DEPARTMENT O				1,117,513,651 47,291,497,142	245,036,690 48,903,362,206		<u> </u>	L LIABILI Y&LIABI				,720,000 ,497,142	108,920,000
								*						anuary 2010
	DIRECTORICE GERM					GCMECSTA FMONDULKI Ed 31st Dece						QUILLE AND A	Accou	
				/	Dat					1				]
	EXPENS			Amount	Year 2008			ENUE	<b></b>		Amou	nt	Y	ar 2008
	Account		Number			PRODUCT	COUNT	COME	Number				1	
Com	bustibles Purchases		60221	165,158,339.00	48 543 12	3.00 Sales of god		*****	707	1	713 44	2,000.00		179,522,800.00
	rial & maintenances		60222	38,514,996.00					706	,		0.000.00		125,280,000.00
	nge in stock of combus	tible	603221	7,825,651.00	1		001110		7083	10		6,000.00		23,230,000.00
Char	nge in stock of Mat.&m	ainte	603222	-19,522,430,00	-4,062,85	0.00						-		
Supp	lies & repairs of equip	ment	6063	86,353,039.00	4,719,90	0.00								
Supp	lies for administrative	service	6064	26,730,360.00	8,621,10	0.00 To	tal	I		1,	,744,65	8,000.00		304,802,809.00
Othe	r material & supplies		6068	27,404,850.00										
Gen	aral sub-contract work		611	4,761,800.00	1	0,00 EXCEPTIONA	LINCO	ME						
	airs & maintenances		615	6,284,070.00		0.00 Portion f inv								
	relation,advertising &docum	ient	623	27,829,500.00		0.00 the period &	tranfe	erred to						
	sport of goods		624	9,887,579.00		0.00 income			. 777	2,	,628,36	5,525,00	4	37,993,734.00
	ion & reception		625 626	62,287,785.00 11,167,250.00	1									
	sport tax	5	63514	11,107,230.00	1						$\overline{}$			
Wag			6411	266,844,600.00								$\overline{}$		
	er bonus		6414	36,977,950,00								$\rightarrow$	$\overline{}$	
	e benefits		647	5,001,500.00	1									
Tax	on mining & quarryings		651	2,300,700.00	1									$\leq$
Tang	ible assets	_	681	2,628,365,525.00	437,993,73	4.00								$\overline{}$
				3,394,323,064.00	562,144,59	4.00 TO	TAL I			2,	628,36	5,525.00	4	37,993,734.00
	Profit for the year		120	978,700,461.00				/ear	129					]
<u> </u>	Total			4,373,023,525.00			stal					3,525.00		42,796,534.00
	DIRCTOR OF DEP			STRY MINE		OF ELECTRICI				м	ondull		-	st 2010
	AND	ENERG	Y& EUMP		OF MO	NDULKIRI PRO\	INCE					Acco	utant	

### **Appendix 3 Civil Work Structures**

- Appendix 3-1 : Flow measurement
- **Appendix 3-2** : Format of flow measurement and example of record
- Appendix 3-3 : Example of the operation record(O'Romis Daily record)
- Appendix 3-4 : O'Romis power station access path Restoration work of landslide
- Appendix 3-5 : O'Romis power station Reinforcement work for pole foundation
- Appendix 3-6 : O'Romis power station access path Installation work of drainpipe
- Appendix 3-7 : O'Romis power station Improvement work of the drainage system

### **Appendix 3-1**

### **Flow measurement**

At the manhole point of the waterway of O'Romis power station, flow measurement was done four times of various water levels to improve the accuracy of the water h-Q curve.

Measurement was done under the instruction of JICA team through the OJT training over and over again.

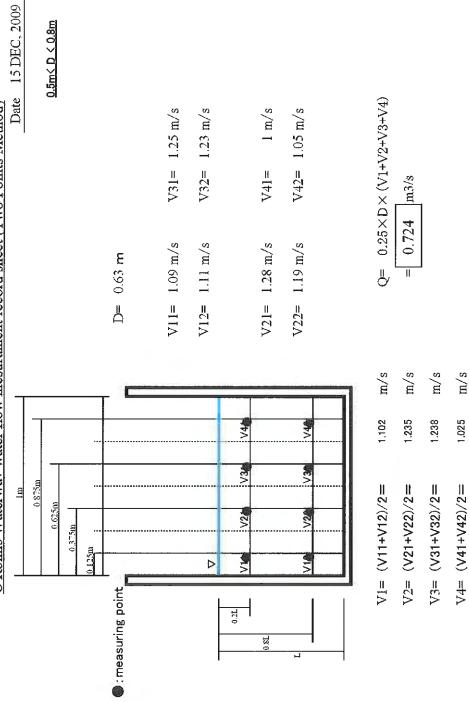


Appendix 3-2

# Format of flow measurement and example of record (measured on 15<sup>th</sup> Dec, 2009)

Format - 2





A3-2

Appendix 3-3

## Example of the operation record(O'Romis Daily record)

\*Water level data is recorded together with the operation record on the same sheet as below

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õ		8	<del>8</del>	400	400	400	400	400	400	40	400	0.400	0 400	0400	0 69	ş	6 6	400	0 400	400	00 00 00	00400	99 0	400	400	400	Approved by Deputy Director Technical and Oneration Div	Signature:	Note: 1)
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A3-3

### Appendix 3-4 オロミス発電所アクセスパス 崩壊土砂取り除き作業 オロミス発電所アクセスパス 崩壊土砂取り除き作業



〇工事前

〇工事中

降雨等により,斜面の土砂がアクセス パス上に流入

2009年9月8日撮影



バックホウで土砂を取り除き 2009 年 9 月 23 日撮影

○工事後
 仕上がり状況の確認
 2009 年 9 月 23 日撮影



### Appendix 3-5 オロミス発電所 水槽付近電柱の根固め作業 オロミス発電所 水槽付近電柱の根固め作業



〇工事前

降雨により、雨水が電柱の根元の地面 を洗い流すように流れている。

2009年9月8日撮影

○工事後 電柱の根元をコンクリートで固めた。 2009 年 12 月 7 日撮影

### Appendix 3-6 オロミス発電所 アクセスパス横断水路設置 オロミス発電所 アクセスパス横断水路設置



○工事前測量中の状況

2009年9月22日撮影

○工事中掘削中の状況

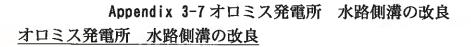
2009年9月23日

〇工事後完成後の状況

2009年12月7日撮影

(出口側)

A3-6





○工事前 溝に泥が堆積し、雨水が溢れている 2009 年 6 月 18 日撮影



○工事中
 接続部の素掘り側溝を拡幅
 2009 年 9 月 13 日撮影

〇工事後土砂取り除き,接続部の改良2009年9月13日撮影

### **Appendix 4 Generation Facilities**

- Appendix 4-1: Energy consumption records (yearly)
- Appendix 4-2: Daily operation records (sample)
- Appendix 4-3: Daily load curves (rainy and dry seasons)
- Appendix 4-4: Event and fault records (sample)
- Appendix 4-5: Periodic Inspection (2009/May, June)
- Appendix 4-6: Periodic Inspection (2009/Nov, Dec)

Appendix 4-1

Summary of the Energy Consumption

Gumulative Assumed her Costumer	) Monthly Energy (MWh)	0.77 23.184	1.37 41.04	2.88 45.36	4.32 43.2	5.81 44.64	7.39 47.52	8.90 45.36	10.49 47.52	12.19 51.12	13.80 48.24	15.34 46.08	17.04 51.12	18.65 48.24	20.62 59.04	22.39 53.28	24.00 48.24	25.66 49.68	27.38 51.84	29.16 53.28	30.84 50.4	32.66 54.72	34.66 59.76	36.58 57.6										
nar Costrimar	(kwh)	3 1.662	8 2.764	2 3.030	0 2.796	8 2.792	4 2.891	2 2.759	4 2.760	4 2.969	8 2.703	6 2.582	4 2.748	8 2.520	8 3.065	6 2.639	8 2.358	6 2.403	8 2.472	6 2.484	0 2.333	4 2.439	2 2.635	0 2.526		8 2.583	_							
$\vdash$	Consumption (kwh)	773	1,368	1,512	1,440	1,488	1,584	1,512	1,584	1,704	1,608	1,536	1,704	1,608	1,968	1,776	1,608	1,656	1,728	1,776	1,680	1,824	1,992	1,920	1,968		1,96{		2,064	2,064	2,064	2,064 2,040 2,112 2,112 2,203	2,064	2,064 2,040 2,112 2,112 2,208 2,280 2,280
Daily Load	Factor %	54%	52%	55%	52%	50%	53%	48%	50%	53%	50%	49%	53%	48%	51%	48%	46%	49%	50%	49%	47%	45%	50%	46%	46%		46%	1001	49%	49% 49% 46%	49% 49% 46%	49% 49% 46% 48%	49% 49% 46% 48%	49% 49% 46% 48% 49%
p.	w) Ave (kw)	32	57	63	60	62	66	63	66	71	67	64	71	67	82	74	67	69	72	74	70	76	83	80	82	20	82		20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 22 00 20 22 00	0 40 80 0 40 80 0 40 80	6 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9         55         20         88         85         6
Demand	Max (kw) Min (kw)	60 15	110 35	115 35	115 40	125 35	125 38	130 35	133 35	135 40	135 32	130 35	135 30	140 30	160 30	155 35	147 33	140 30	145 35	150 30	150 30	170 40	165 40	175 35	180 35	175 42								
Number of		465 6	495 11	499 11	515 11	533 12	548 12	548 13	574 13	574 13	595 13	595 13	620 13	638 14	642 16	673 15	682 14	689 14	699 17	715 15	720 15	748 17	756 716	760 17	762 18	764 17								
	Date (	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	13-Nov	AUN-+1	15-Nov	15-Nov 16-Nov	15-Nov 16-Nov	15-Nov 16-Nov 17-Nov	15-Nov 16-Nov 17-Nov 18-Nov	15-Nov 16-Nov 17-Nov 18-Nov 19-Nov
	Month														8	300	12.1	oV	1										•	• • • • • • • • • • • • • • • • • • • •				

Date	Number of		Demand	-	Daily Load	Consumption	per Costumer	Cumulative	Assurrieu Monthly Enerav	per Costumer
	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	(kwh)	(kwh)	Energy (MWh)	(MWh)	(kwh/Month)
	776	200	50	96	48%	2,304	2.969	56.16	69.12	89
	776	195	45	95	49%	2,280	2.938	58.44	68.4	88
23-Nov	776	195	45	95	49%	2,280	2.938	60.72	68.4	88
24-Nov	622	200	45	95	48%	2,280	2.927	63.00	68.4	88
25-Nov	677	205	50	67	47%	2,328	2.988	65.33	69.84	06
26-Nov	781	205	50	103	50%	2,472	3.165	67.80	74.16	95
27-Nov	784	205	50	103	50%	2,472	3.153	70.27	74.16	95
28-Nov	792	215	50	102	47%	2,448	3.091	72.72	73.44	63
29-Nov	801	215	45	104	48%	2,496	3.116	75.22	74.88	69
30-Nov	810	200	50	104	52%	2,496	3.081	77.71	74.88	92
1-Dec	820	215	55	104	48%	2,496	3.044	80.21	74.88	9
2-Dec	824	220	55	110	50%	2,640	3.204	82.85	79.2	96
3-Dec	826	225	55	108	48%	2,592	3.138	85.44	77.76	94
4-Dec	828	215	60	114	53%	2,736	3.304	88.18	82.08	66
5-Dec	830	230	55	114	50%	2,736	3.296	90.91	82.08	66
6-Dec	832	230	50	119	52%	2,856	3.433	93.77	85.68	103
7-Dec	835	218	55	115	53%	2,760	3.305	96.53	82.8	66
8-Dec	842	235	65	119	51%	2,856	3.392	99.38	85.68	102
9-Dec	842	225	60	116	52%	2,784	3.306	102.17	83.52	66
10-Dec	844	230	62	123	53%	2,952	3.498	105.12	88.56	105
11-Dec	844	215	60	113	53%	2,712	3.213	107.83	81.36	96
12-Dec	846	235	55	124	53%	2,976	3.518	110.81	89.28	106
13-Dec	853	230	20	131	57%	3,144	3.686	113.95	94.32	111
14-Dec	853	240	20	125	52%	3,000	3.517	116.95	06	106
15-Dec	853	235	65	121	51%	2,904	3.404	119.86	87.12	102
16-Dec	856	235	38	112	48%	2,688	3.140	122.54	80.64	94
17-Dec	856	240	65	122	51%	2,928	3.421	125.47	87.84	103
18-Dec	856	230	65	120	52%	2,880	3.364	128.35	86.4	101
19-Dec	856	225	60	119	53%	2,856	3.336	131.21	85.68	100
20-Dec	856	243	60	122	50%	2,928	3.421	134.14	87.84	103
21-Dec	856	220	20	119	54%	2,856	3.336	136.99	85.68	100
22-Dec	856	230	65	117	51%	2,808	3.280	139.80	84.24	98
23-Dec	951	245	55	118	48%	2,834	2.980	142.63	85.02	89
24-Dec	951	267	09	131	49%	3,142	3.304	145.78	94.26	66

Number of Costumer		Demand		Daily Load	Energy Daily Consumption	per Costumer	Cumulative Energy (MMA)	Assumed Monthly Energy	per Costumer
	Max (kw)	Min (kw)	Ave (kw)	ractul %	(kwh)	(11771)		(MWh)	
951	251	60	131	52%	3,154	3.317	148.93	94.62	66
951	257	60	130	50%	3,108	3.268	152.04	93.24	98
951	235	65	124	53%	2,984	3.138	155.02	89.52	94
951	258	65	127	49%	3,043	3.200	158.07	91.29	96
958	258	60	129	50%	3,094	3.230	161.16	92.82	97
960	259	20	133	51%	3,188	3.321	164.35	95.64	100
962	267	70	146	55%	3,512	3.651	167.86	105.36	110
962	262	65	138	53%	3,321	3.452	171.18	99.63	104
962	246	60	127	52%	3,053	3.174	174.23	91.59	95
965	230	60	122	53%	2,922	3.028	177.16	87.66	91
967	221	65	126	57%	3,015	3.118	180.17	90.45	94
696	250	75	137	55%	3,283	3.388	183.45	98.49	102
970	252	70	133	53%	3,182	3.280	186.64	95.46	98
970	234	60	124	53%	2,970	3.062	189.61	89.10	92
670	243	65	125	51%	2,999	3.092	192.60	89.97	93
972	246	60	125	51%	3,002	3.088	195.61	90.06	93
975	249	60	131	53%	3,139	3.219	198.75	94.17	97
978	244	55	130	53%	3,118	3.188	201.86	93.54	96
978	237	60	125	53%	2,988	3.055	204.85	89.64	92
978	248	60	127	51%	3,050	3.119	207.90	91.50	94
980	244	60	129	53%	3,099	3.162	211.00	92.97	95

	בפוע			nemana		Daily Load	Consumption	per Costumer	Cumulative	Monthly Energy	per Costumer
		Costumer	Max (kw)	Mîn (kw)	Ave (kw)	Factor %	(kwh)	(kwh)	Energy (MWh)	(MWh)	(kwh/Month)
	15-Jan	980	242	68	132	55%	3,171	3.236	214.17	95.13	97
	16-Jan	980	255	65	131	51%	3,147	3.211	217.32	94.41	96
	17-Jan	986	251	70	132	23%	3,164	3.209	220.48	94.92	96
	18-Jan	986	256	70	136	53%	3,268	3.314	223.75	98.04	66
	19-Jan	989	244	65	132	54%	3,167	3.202	226.92	95.01	96
	20-Jan	989	236	65	131	55%	3,143	3.178	230.06	94.29	95
	21-Jan	1021	263	65	133	51%	3,192	3.126	233.25	95.76	94
	22-Jan	1021	256	70	144	56%	3,446	3.375	236.70	103.38	101
	23-Jan	1021	251	75	147	59%	3,528	3.455	240.23	105.84	104
	24-Jan	1021	240	75	135	56%	3,229	3.163	243.46	96.87	95
	25-Jan	1021	264	70	145	55%	3,473	3.402	246.93	104.19	102
	26-Jan	1021	295	75	149	51%	3,583	3.509	250.51	107.49	105
	27-Jan	1021	307	06	157	51%	3,758	3.681	254.27	112.74	110
	28-Jan	1023	278	85	155	56%	3,719	3.635	257.99	111.57	109
	29-Jan	1023	262	75	149	57%	3,575	3.495	261.56	107.25	105
L	30-Jan	1023	258	70	139	54%	3,324	3.249	264.89	99.72	97
	31-Jan	1023	276	70	133	48%	3,196	3.124	268.08	95.88	94
	1-Feb	1023	261	60	129	49%	3,093	3.024	271.18	92.79	91
	2-Feb	1023	270	60	132	49%	3,158	3.087	274.33	94.74	93
6	3-Feb	1023	238	67	135	57%	3,241	3.168	277.58	97.23	95
500	4-Feb	1023	247	63	135	55%	3,234	3.161	280.81	97.02	95
2	5-Feb	1023	250	75	140	56%	3,353	3.278	284.16	100.59	98
qə-	6-Feb	1023	258	65	137	53%	3,294	3.220	287.46	98.82	26
	7-Feb	1026	267	75	140	52%	3,358	3.273	290.81	100.74	86
	8-Feb	1026	257	80	147	57%	3,536	3.446	294.35	106.08	103
	9-Feb	1026	262	80	146	56%	3,497	3.408	297.85	104.90	102
	10-Feb	1026	257	75	148	57%	3,541	3.451	301.39	106.23	104
	11-Feb	1026	263	75	152	58%	3,637	3.545	305.03	109.11	106
	12-Feb	1026	262	0	146	56%	3,498	3.409	308.52	104.94	102
	13-Feb	1026	273	46	140	51%	3,362	3.277	311.89	100.86	98
	14-Feb	1028	280	66	156	56%	3,733	3.631	315.62	111.99	109
	15-Feb	1028	259	06	152	59%	3,647	3.547	319.27	109.40	106
	16-Feb	1028	270	85	151	56%	3,620	3.521	322.88	108.60	106
	17-Feb	1028	271	85	145	54%	3,480	3.385	326.36	104.40	102

Month         Date         Costumer         Max(           18-Feb         1028         257           19-Feb         1028         277           20-Feb         1033         287           21-Feb         1033         287           22-Feb         1033         287           22-Feb         1033         287           23-Feb         1033         287           25-Feb         1033         287           26-Feb         1033         287           27-Feb         1033         287           28-Mar         1033         287           1-Mar         1033         287           5-Mar         1033         287           11-Mar         1033         287           110-Mar         1037         287           11-Mar         1037         287           11-Mar         1037         287           11-Mar		Demand		Daily Load	Energy Daily	ner Costumer	Cumulative	Assumed	ner Costumer
18-Feb         1028         1028           19-Feb         1028         1028           20-Feb         1028         1028           21-Feb         1033         2           21-Feb         1033         1           22-Feb         1033         1           22-Feb         1033         1           23-Feb         1033         1           24-Feb         1033         1           25-Feb         1033         1           25-Feb         1033         1           26-Feb         1033         1           27-Feb         1033         1           28-Feb         1033         1           28-Feb         1033         1           27-Feb         1033         1           28-Feb         1033         1           28-Feb         1033         1           29-Mar         1033         1           2-Mar         1033         1           2-Mar         1033         1           2-Mar         1033         1           2-Mar         1033         1           3-Mar         1033         1           10-	r Max (kw)	Min (kw)	Ave (kw)	Factor %	Consumption (kwh)	(kwh)	Energy (MWh)	Monthly Energy (MWh)	(kwh/Month)
19-Feb         1028           20-Feb         1028           21-Feb         1033           21-Feb         1033           22-Feb         1033           23-Feb         1033           23-Feb         1033           23-Feb         1033           23-Feb         1033           24-Feb         1033           25-Feb         1033           26-Feb         1033           27-Feb         1033           27-Feb         1033           27-Feb         1033           27-Feb         1033           28-Feb         1033           28-Feb         1033           28-Feb         1033           28-Mar         1033           2-Mar         1033           2-Mar         1033           2-Mar         1033           2-Mar         1033           3-Mar         1033           1-Mar         1033           10-Mar         1037           11-Mar         1037           12-Mar         1037           13-Mar         1037           14-Mar         1037           11-Mar	255	75	146	57%	3,501	3.406	329.87	105.03	102
20-Feb         1028           21-Feb         1033           21-Feb         1033           22-Feb         1033           23-Feb         1033           23-Feb         1033           23-Feb         1033           24-Feb         1033           25-Feb         1033           25-Feb         1033           26-Feb         1033           27-Feb         1033           28-Feb         1033           28-Mar         1033           2-Mar         1033           8-Mar         1033           6-Mar         1033           1-Mar         1033           11-Mar         1037           11-Mar         1037           12-Mar         1037           13-Mar         1037           14-Mar         1037           15-Mar	277	80	148	53%	3,556	3.459	333.42	106.68	104
21-Feb     1033     2       22-Feb     1033     2       23-Feb     1033     2       23-Feb     1033     2       24-Feb     1033     2       25-Feb     1033     2       25-Feb     1033     2       25-Feb     1033     2       26-Feb     1033     2       27-Feb     1033     2       28-Feb     1033     2       27-Feb     1033     2       28-Feb     1033     2       27-Feb     1033     2       28-Feb     1033     2       28-Mar     1033     2       6-Mar     1033     2       9-Mar     1037     1       10-Mar     1037     1       11-Mar     1037     1	272	0	106	%62	2,544	2.475	335.97	76.32	74
22-Feb     1033     23-Feb       23-Feb     1033     2       24-Feb     1033     2       25-Feb     1033     2       26-Feb     1033     2       27-Feb     1033     2       28-Feb     1033     2       28-Feb     1033     2       28-Feb     1033     2       28-Mar     1033     2       3-Mar     1033     2       3-Mar     1033     2       3-Mar     1033     2       3-Mar     1033     2       4-Mar     1033     2       6-Mar     1033     2       9-Mar     1037     1033       10-Mar     1037     1037       11-Mar     1037     <	281	06	155	55%	3,723	3.604	339.69	111.69	108
23-Feb     1033       24-Feb     1033       24-Feb     1033       25-Feb     1033       25-Feb     1033       26-Feb     1033       27-Feb     1033       27-Feb     1033       27-Feb     1033       27-Feb     1033       28-Feb     1033       28-Feb     1033       28-Feb     1033       29-Mar     1033       6-Mar     1033       7-Mar     1033       8-Mar     1033       9-Mar     1033       11-Mar     1033       6-Mar     1033       7-Mar     1033       8-Mar     1033       11-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       11-Mar     1037       11-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1036       13-Mar     1037       13-Mar     1036       13-Mar     1037       13-Mar     1037       13-Mar     1036       13-Mar     1036       13-Mar     1046       13-Mar     104	268	101	162	%09	3,889	3.765	343.58	116.67	113
24-Feb     1033       25-Feb     1033       25-Feb     1033       26-Feb     1033       27-Feb     1033       27-Feb     1033       27-Feb     1033       28-Feb     1033       27-Feb     1033       28-Feb     1033       29-Mar     1033       5-Mar     1033       7-Mar     1033       8-Mar     1033       9-Mar     1033       10-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1036       11-Mar	268	108	166	62%	3,980	3.853	347.56	119.40	116
25-Feb     1033     25-Feb       26-Feb     1033     2       27-Feb     1033     1       27-Feb     1033     1       28-Feb     1033     1       28-Mar     1033     1       3-Mar     1033     1       2-Mar     1033     1       3-Mar     1033     1       3-Mar     1033     1       5-Mar     1033     1       5-Mar     1033     1       5-Mar     1033     1       7-Mar     1033     1       8-Mar     1037     1       8-Mar     1037     1       8-Mar     1037     1       9-Mar     1037     1       11-Mar     1037     1       12-Mar     1037     1       13-Mar     1036     1       13-Mar     1046     1	287	95	152	%£9	3,639	3.523	351.20	109.17	106
26-Feb     1033     27-Feb       27-Feb     1033     1       27-Feb     1033     1       28-Feb     1033     1       28-Feb     1033     1       28-Mar     1033     1       2-Mar     1033     1       5-Mar     1033     1       6-Mar     1033     1       7-Mar     1037     1       11-Mar     1037     1       11-Mar     1037     1       12-Mar     1037     1       13-Mar     1036     1       13-Mar     1037     1       13-Mar     1037     1       13-Mar     1046     1	273	95	145	53%	3,472	3.361	354.67	104.16	101
27-Feb     1033       28-Feb     1033       28-Feb     1033       1-Mar     1033       1-Mar     1033       2-Mar     1033       2-Mar     1033       3-Mar     1033       3-Mar     1033       5-Mar     1033       5-Mar     1033       6-Mar     1033       5-Mar     1033       6-Mar     1033       7-Mar     1037       8-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1036       11-Mar     1037       11-Mar     1036       11-Mar     1037       11-Mar     1036       11-Mar     1037       11-Mar     1036       11-Mar     1036       11-Mar     1036       11-Mar     1046       11-Mar     1046       11-Mar     1046	274	0	119	43%	2,856	2.765	357.53	85.68	83
28-Feb     1033       1-Mar     1033       1-Mar     1033       2-Mar     1033       2-Mar     1033       3-Mar     1033       3-Mar     1033       5-Mar     1033       6-Mar     1033       6-Mar     1033       7-Mar     1033       6-Mar     1033       7-Mar     1033       8-Mar     1033       7-Mar     1037       8-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1036       13-Mar     1046       15-Mar     1046       15-Mar     1046       16-Mar     1046       19-Mar     1046       19-Mar     1046       19-Mar     1046       19-Mar     1046       1046     1046       1052     20-Mar       1052     21-Mar       1052     22-Mar       1052     1052	262	80	147	56%	3,529	3.416	361.05	105.87	102
1-Mar     1033       2-Mar     1033       2-Mar     1033       3-Mar     1033       3-Mar     1033       5-Mar     1033       6-Mar     1033       5-Mar     1033       6-Mar     1033       6-Mar     1033       7-Mar     1037       8-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       14-Mar     1037       13-Mar     1046       15-Mar     1046       15-Mar     1046       15-Mar     1046       16-Mar     1046       17-Mar     1046       18-Mar     1046       19-Mar     1046       20-Mar     1046       21-Mar     1052       22-Mar     1052	251	80	147	59%	3,528	3.415	364.58	105.84	102
2-Mar     1033       3-Mar     1033       3-Mar     1033       4-Mar     1033       5-Mar     1033       6-Mar     1033       6-Mar     1033       6-Mar     1033       6-Mar     1033       6-Mar     1033       7-Mar     1037       8-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       13-Mar     1037       14-Mar     1037       15-Mar     1046       15-Mar     1046       16-Mar     1046       17-Mar     1046       18-Mar     1046       19-Mar     1046       19-Mar     1046       19-Mar     1046       19-Mar     1046       20-Mar     1046       20-Mar     1046       21-Mar     1052       22-Mar     1052	248	80	149	%09	3,572	3.458	368.15	107.16	104
3-Mar     1033       3-Mar     1033       4-Mar     1033       5-Mar     1033       6-Mar     1033       6-Mar     1037       7-Mar     1037       8-Mar     1037       9-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1046       15-Mar     1046       15-Mar     1046       16-Mar     1046       19-Mar     1046       19-Mar     1046       19-Mar     1046       19-Mar     1046       20-Mar     1046       21-Mar     1052       22-Mar     1052	248	80	148	60%	3,550	3.437	371.70	106.50	103
4-Mar     1033       5-Mar     1033       5-Mar     1033       6-Mar     1033       6-Mar     1037       7-Mar     1037       8-Mar     1037       9-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       14-Mar     1037       13-Mar     1037       14-Mar     1046       15-Mar     1046       16-Mar     1046       17-Mar     1046       18-Mar     1046       19-Mar     1046       19-Mar     1046       20-Mar     1046       20-Mar     1046       21-Mar     1052       22-Mar     1052	266	70	147	55%	3,535	3.422	375.24	106.05	103
5-Mar     1033       6-Mar     1033       7-Mar     1037       8-Mar     1037       8-Mar     1037       9-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       14-Mar     1046       15-Mar     1046       16-Mar     1046       16-Mar     1046       19-Mar     1046       19-Mar     1046       20-Mar     1046       21-Mar     1052       22-Mar     1052	266	75	147	55%	3,531	3.418	378.77	105.93	103
6-Mar     1033     6-Mar       7-Mar     1037     8       8-Mar     1037     9       9-Mar     1037     1037       9-Mar     1037     1037       10-Mar     1037     1037       11-Mar     1037     1037       12-Mar     1037     1037       13-Mar     1037     1037       13-Mar     1037     1036       15-Mar     1046     1046       15-Mar     1046     1046       15-Mar     1046     1046       16-Mar     1046     1046       16-Mar     1046     1046       16-Mar     1046     1046       17-Mar     1046     1046       18-Mar     1046     1046       20-Mar     1046     1046       21-Mar     1052     1052       22-Mar     1052     1052	265	75	143	54%	3,429	3.320	382.20	102.87	100
7-Mar     1037       8-Mar     1037       8-Mar     1037       9-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       14-Mar     1046       15-Mar     1046       16-Mar     1046       15-Mar     1046       16-Mar     1046       17-Mar     1046       18-Mar     1046       19-Mar     1046       20-Mar     1046       20-Mar     1052       21-Mar     1052       22-Mar     1052	261	85	151	58%	3,622	3.506	385.82	108.66	105
8-Mar     1037       9-Mar     1037       9-Mar     1037       9-Mar     1037       10-Mar     1037       11-Mar     1037       12-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       13-Mar     1037       14-Mar     1046       15-Mar     1046       16-Mar     1046       17-Mar     1046       18-Mar     1046       19-Mar     1046       20-Mar     1046       21-Mar     1052       22-Mar     1052	269	95	150	56%	3,594	3.466	389.42	107.82	104
1037       1037       1037       1037       1037       1037       1037       1037       1037       1037       1036       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1052       1052	258	110	153	29%	3,677	3.546	393.09	110.31	106
1037       1037       1037       1037       1037       1037       1037       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1052	265	95	156	59%	3,738	3.605	396.83	112.14	108
1037     1037       1037     1037       1037     1036       1046     1046       1046     1046       1046     1046       1046     1046       1046     1046       1046     1046       1046     1046       1046     1046       1052     1052	286	85	158	55%	3,788	3.653	400.62	113.64	110
1037       1037       1037       1036       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1046       1052       1052	283	88	165	58%	3,963	3.822	404.58	118.89	115
1037       1046       1046       1046       1046       1046       1046       1046       1046       1046       1052       1052	268	36	161	%09	3,872	3.734	408.45	116.16	112
1046       1046       1046       1046       1046       1046       1046       1046       1046       1052       1052	272	95	160	%69	3,837	3.700	412.29	115.11	111
1046 1046 1046 1046 1046 1046 1052 1052	272	06	153	%99	3,670	3.509	415.96	110.10	105
1046 1046 1046 1046 1046 1046 1052	258	80	145	26%	3,478	3.325	419.44	104.34	100
1046 1046 1046 1046 1052 1052	253	81	149	59%	3,569	3.412	423.01	107.07	102
1046 1046 1046 1052 1052	268	85	152	57%	3,654	3.493	426.66	109.62	105
1046 1046 1052 1052	275	80	155	56%	3,713	3.550	430.37	111.39	106
1046 1052 1052	271	85	157	58%	3,758	3.593	434.13	112.74	108
1052	285	80	158	56%	3,799	3.632	437.93	113.97	109
1052	277	06	156	56%	3,750	3.565	441.68	112.50	107
	265	95	163	62%	3,914	3.720	445.60	117.42	112
23-Mar 1052 28	285	06	166	58%	3,991	3.794	449.59	119.73	114

Max (w)         Min (w)         Aee (w)         Earciv (w)         Contribution (w)         Mont/by-action (w)           2056         161         61%         5%         35%         35%         35%         457.34         110.04           2721         85         151         65%         3563         36613         468.71         114.27           270         85         159         57%         3673         36613         468.71         114.27           277         85         161         5%         3.663         3673         468.71         114.27           278         95         161         5%         3.663         3.613         468.71         114.27           278         96         147         5%         3.633         3.614         475.97         10.177           278         98         161         5%         3.533         3.616         475.97         10.177           278         88         161         5%         3.533         3.616         475.97         10.127           280         88         374         3.733         3.616         4.66.7         10.277           280         81         119         5%			Number of		Demand		Dailv Load	Energy Daily	per Costumer	Cumulative	Assumed	ber Costumer
Zehlak         102         265         151         615         516         517         453.6           Zehlak         1022         Z77         665         151         351.2         3.449         467.9           Zehlak         1052         Z77         665         151         3.613         3.613         464.71           Zehlak         1052         Z77         65         159         3.613         3.613         467.91           Zehlak         1055         Z77         65         159         3.613         3.613         467.91           Zehlak         1056         Z87         106         177         56%         3.693         3.613         475.97           Johdak         1056         Z86         9.0         174         56%         3.269         3.613         475.97           Johdak         1059         Z30         13         130         57%         3.269         3.613         475.97           Johdak         1059         Z30         130         130         3.260         4.613         4.75.97           Johdak         1059         Z30         130         130         3.260         4.75.97           Johdak		Date	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	Consumption (kwh)	(kwh)	Energy (MWh)	Monthly Energy (MWh)	(kwh/Month)
2-Mate         1002         2.74         65         1003         5.74         65         1003         5.74         64.7           2-Mate         1062         2.70         66         161         69%         3.63         3.63         44.71           2-Mate         1065         2.72         66         161         69%         3.69         3.693         46.87           2-Mate         1065         2.73         66         147         59%         3.69         3.693         472.87           2-Mate         1065         2.84         90         75%         3.69         3.693         472.87           2-Mate         1069         2.80         97         3.79         3.793         3.795         479.67           2-Mate         1069         2.80         97         3.79         3.793         3.795         479.67           2-Mate         1069         2.70         87         3.79         3.795         3.795         479.67           2-Mate         1069         2.70         87         3.795         3.746         475.77           2-Mate         1069         2.70         10         107         2.740         2.746         2.747 <td>ł</td> <td>24-Mar</td> <td>1052</td> <td>265</td> <td>95</td> <td>161</td> <td>61%</td> <td>3,868</td> <td>3.677</td> <td>453.45</td> <td>116.04</td> <td>110</td>	ł	24-Mar	1052	265	95	161	61%	3,868	3.677	453.45	116.04	110
Zehlar         105         270         665         769         763         763         763         763         763           Z-Mar         1062         277         65         116         57%         3.60         3.63         465           Z-Mar         1065         277         65         100         157         57%         3.63         3.63         453           Z-Mar         1065         276         75%         3.68         3.66         475.97           Z-Mar         1069         280         127         57%         3.68         3.66         475.97           J-Mar         1069         280         126         176         57%         3.68         3.66         475.97           J-Mar         1069         280         16         176         3.78         3.66         475.97           J-Mar         1069         280         16         176         3.78         3.66         475.97           J-Mar         1069         280         16         176         3.78         3.66         475.97           J-Mar         1069         280         16         176         3.76         3.66         5.76	[	25-Mar	1052	274	85	160	58%	3,834	3.644	457.29	115.02	109
Z. <sup>4</sup> Mar         102         2.7         66         175         66         46.71           Z.2.Mar         1065         277         96         161         3695         3693         3693         46.75           Z.2.Mar         1055         277         100         172         59%         3.633         3.633         475.57           Z.2.Mar         1055         250         92         141         59%         3.633         3.633         475.57           Z.1.Mar         1095         250         92         141         57%         3.633         3.635         475.57           J.1.Mar         1095         250         92         141         57%         3.633         3.615         485.75           J.1.Mar         1095         250         97         57%         3.633         3.615         485.75           J.1.Mar         1095         250         97         57%         3.635         3.657         475.57           J.1.Mar         1095         250         97         57%         3.667         57.67           J.1.Mar         1095         250         97         57.67         3.667         57.67           J.1.Mar		26-Mar	1052	270	85	151	56%	3,612	3.433	460.90	108.36	103
20-Mar         (105)         272         96         191         58%         3652         465.7           20-Mar         (105)         250         92         147         59%         3.53         3.653         475.65           21-Mar         (105)         250         92         147         59%         3.53         3.15         475.65           21-Mar         (106)         220         92         147         55%         3.32         48.13           21-Mar         (106)         223         78         1.56         3.32         48.13         475.65           2-Apr         (106)         223         78         1.36         3.32         3.18         48.13           2-Apr         (106)         223         78         1.36         3.32         3.18         48.13           2-Apr         (106)         233         71         1.35         3.16         3.16         48.15           2-Apr         (106)         230         71         71         3.46         5.16         48.57           2-Apr         (106)         230         71         5.26         3.365         3.465         5.17           2-Apr         (102)		27-Mar	1052	277	85	159	57%	3,807	3.619	464.71	114.21	109
20-Mar         1056         267         10         157         690         157         690         157         617           30-Mar         1056         266         90         122         5%6         3.459         3.459         4.75.97           31-Mar         1056         243         82         141         5%6         3.053         3.165         4.75.97           1-Jar         1059         243         83         166         5%         3.253         3.165         4.85.75           3-Abr         1059         237         816         17.8         3.365         3.061         4.85.75           3-Abr         1056         237         816         17.8         3.365         3.065         4.85.75           3-Abr         1069         237         816         17.8         3.056         3.46.75         4.85.75           3-Abr         1066         236         81         17.8         3.46         3.057         4.96.75           3-Abr         1062         280         17         17.8         3.46.8         3.46.7         5.60.75           3-Abr         1062         280         17.8         3.46.8         3.46.8         5.7.	I	28-Mar	1055	272	95	161	59%	3,863	3.662	468.57	115.89	110
30-Mat         1056         266         920         142         57%         3.530         3.440         4.75.67           11-Mat         1059         2500         92         141         55%         3.532         3.795         479.50           11-Mat         1059         2237         78         146         57%         3.536         3.056         486.3           2-Aptr         1059         237         83         156         57%         3.268         3.067         486.3           5-Aptr         1059         237         83         13.05         3.046         486.3           5-Aptr         1056         237         83         3.05         3.05         486.3           5-Aptr         1056         236         70         149         57%         3.05         3.05         486.3           5-Aptr         1052         250         70         149         57%         3.05         3.05         486.3           5-Aptr         1062         256         70         149         57%         3.05         3.06         5.05           5-Aptr         1062         256         70         149         57%         3.05         3.05 </td <td>I</td> <td>29-Mar</td> <td>1055</td> <td>267</td> <td>100</td> <td>157</td> <td>59%</td> <td>3,759</td> <td>3.563</td> <td>472.33</td> <td>112.77</td> <td>107</td>	I	29-Mar	1055	267	100	157	59%	3,759	3.563	472.33	112.77	107
31-Mar         1059         250         62         147         56%         3.323         3.165         479.66           1-Ayrr         1069         246         83         141         57%         3.363         3.165         426.67           3-Ayrr         1069         223         81         139         55%         3.162         3.065         426.67           3-Ayrr         1069         220         81         133         55%         3.162         3.065         426.67           5-Ayrr         1069         220         81         133         55%         3.162         3.065         426.67           5-Ayrr         1069         220         81         133         55%         3.162         3.065         426.57           5-Ayrr         1069         240         87         3.363         3.143         405.60         513.47           5-Ayrr         1062         280         81         143         55%         3.444         510.36         513.47           5-Ayrr         1062         280         81         55%         3.568         513.47           11-Ayrr         1062         280         814         3.353         3.324	]	30-Mar	1055	265	06	152	57%	3,639	3.449	475.97	109.17	103
1 Apr         1059         248         83         141         57%         3.315         3.185         4.82.87           2.Apr         1059         223         78         136         5.7%         5.268         3.061         486.13           4.Apr         1059         2237         81         139         55%         3.061         486.30           4.Apr         1059         230         81         139         55%         3.142         455.00           4.Apr         1059         240         87         3.607         3.406         455.00           4.Apr         1052         226         81         153         3.44         50.07         456.7           7.Apr         1062         226         90         146         55%         3.366         513.4           9.Apr         1062         280         146         55%         3.366         513.4           1.Apr         1062         281         146         55%         3.366         513.4           1.Apr         1062         280         146         55%         3.366         513.4           1.Apr         1062         280         146         55%         3.366 <td>i</td> <td>31-Mar</td> <td>1059</td> <td>250</td> <td>92</td> <td>147</td> <td>29%</td> <td>3,529</td> <td>3.332</td> <td>479.50</td> <td>105.87</td> <td>100</td>	i	31-Mar	1059	250	92	147	29%	3,529	3.332	479.50	105.87	100
Z-Apr         1056         723         76         136         61%         3.286         3.01%         486.13           3-Apr         1059         237         83         136         3.286         3.01         495.55           4-Apr         1059         2350         81         133         55%         3.015         495.5         495.5           5-Apr         1059         230         81         133         55%         3.316         495.5         495.5           7-Apr         1059         240         87         55%         3.36         3.067         495.5           9-Apr         1062         286         91         149         55%         3.567         3.366         51.36         51.36           9-Apr         1062         286         91         141         55%         3.563         3.346         51.36         51.36           11-Apr         1062         286         104         145         55%         3.356         51.36         51.36           11-Apr         1062         280         106         55%         3.366         51.36         51.36           11-Apr         1062         280         106         55%		1-Apr	1059	248	83	141	57%	3,373	3,185	482.87	101.19	96
3-Apr         1056         237         63         136         57%         3.061         469.3           4-Apr         1056         220         81         133         53%         3.055         495.9           5-Apr         1059         220         81         133         53.65         3.142         495.9           5-Apr         1059         220         81         139         55%         3.142         495.9           7-Apr         1062         226         90         161         55%         3.56         3.414         50.37           9-Apr         1062         269         90         161         55%         3.56         3.414         510.3           9-Apr         1062         260         161         55%         3.56         3.513         510.3           11-Apr         1062         260         164         55%         3.565         3.741         510.3           11-Apr         1062         261         100         150         55%         3.740         55.16           11-Apr         1062         250         110         15         56%         3.740         55.16           15-Apr         1070		2-Apr	1059	223	78	136	61%	3,258	3.076	486.13	97.74	92
4-Arr         1066         250         81         133         53%         3182         3065         40257           5-Arr         1059         239         81         139         56%         3.327         3142         495.90           6-Arr         1059         240         87         159         5563         3.466         495.51           6-Arr         1062         226         93         163         55%         3.565         3.446         50.07           9-Arr         1062         226         93         148         55%         3.563         3.653         513.47           9-Arr         1062         286         93         148         55%         3.563         3.653         513.47           11-Arr         1062         286         147         56%         3.563         3.740         517.47           11-Arr         1062         286         147         56%         3.563         513.47           15-Arr         1062         326         126         147         56%         3.563         517.47           15-Arr         1062         326         126         16.67         3.563         517.47           15	6	3-Apr	1059	237	83	136	57%	3,263	3.081	489.39	97.89	92
6-Apr         1055         233         81         133         58%         3.327         3.142         495.50           7-Apr         1059         240         87         150         87         3.065         3.365         4.96.51           7-Apr         1062         262         70         149         57%         3.665         3.365         903.71           8-Apr         1062         259         93         143         55%         3.444         50.57         50.35           9-Apr         1062         286         90         151         55%         3.444         51.6         51.64           10-Apr         1062         286         163         65%         3.563         3.316         51.74           11-Apr         1062         325         125         166         3.563         3.744         51.74           11-Apr         1062         326         166         3.746         51.74         51.74           11-Apr         1062         325         155         3.444         51.75         52.16           11-Apr         1070         232         156         51.66         3.746         53.66           15-Apr	600	4-Apr	1059	250	81	133	53%	3,182	3.005	492.57	95.46	06
6.Apr         105e         240         87         150         3.607         3.406         496.51           7.Apr         1062         282         70         149         57%         3.667         3.566         5.007         409.57           8.Apr         1062         282         70         149         55%         3.444         505.76         505.76           9.Apr         1062         280         93         153         55%         3.444         505.76         505.76           10-Apr         1062         280         161         55%         3.444         517.87         55.69         517.47           11-Apr         1062         283         125         168         55%         3.365         517.47           11-Apr         1062         355         125         168         55%         3.797         55.66           13-Apr         1070         353         105         168         55%         3.797         55.66           14-Apr         1070         353         105         168         55%         3.797         55.66           15-Apr         1070         353         105         167         55%         53.69	2.	5-Apr	1059	239	81	139	58%	3,327	3.142	495.90	99.81	94
T-Apr         1062         262         70         149         57%         3.566         3.356         60.07         600.75           8-Apr         1062         259         93         153         55%         3.464         506.75         506.75           9-Apr         1062         276         90         151         55%         3.355         3.414         510.36           11-Apr         1062         280         83         143         55%         3.355         513.49         513.47           11-Apr         1062         285         100         150         55%         3.355         513.47         513.47           11-Apr         1062         285         100         150         55%         3.356         513.47           15-Apr         1062         285         100         150         55%         3.324         517.47           16-Apr         1070         323         105         144         4.163         529.56           15-Apr         1070         323         105         164%         3.364         53.66         53.66           15-Apr         1070         280         107         164%         4.163         54.26	۱d	6-Apr	1059	240	87	150	63%	3,607	3.406	499.51	108.21	102
1062         259         93         153         59%         3.679         3.464         506.75           1062         276         90         151         55%         3.414         51.38         513.94           1062         276         90         151         55%         3.455         3.355         513.94         513.94           1062         280         85         147         56%         5.561         3.145         513.94         513.94           1062         285         100         150         55%         3.530         3.355         513.94         513.94           1062         285         168         55%         54.69         3.369         52.107         52.51.07           1070         325         125         181         54%         4.65         5.79         52.6.6         57.40           1070         323         105         181         54%         4.65         53.80         53.80           1070         292         110         174         3.864         53.80         54.94           1070         292         164         54%         4.661         55.84         55.8.04           1070         2	1	7-Apr	1062	262	20	149	57%	3,566	3.358	503.07	106.98	101
1062         276         90         151         55%         3,626         3,414         510.38           1062         280         83         148         53%         3,553         513.94         517.47           1062         283         85         147         56%         3,553         513.94         517.47           1062         285         100         150         55%         3,559         513.94         517.47           1062         285         100         150         55%         3,599         3,324         517.47           1062         385         160         150         53%         5,399         3,329         517.47           1062         332         105         168         57%         4,057         3,597         52,510           1070         325         110         172         54%         4,153         3,661         53,390           1070         2921         110         167         54%         4,163         54,64         54,64           1070         2921         110         167         54%         3,661         54,64         54,64         54,64           1071         290         164 <td></td> <td>8-Apr</td> <td>1062</td> <td>259</td> <td>93</td> <td>153</td> <td>59%</td> <td>3,679</td> <td>3.464</td> <td>506.75</td> <td>110.37</td> <td>104</td>		8-Apr	1062	259	93	153	59%	3,679	3.464	506.75	110.37	104
1062         280         83         148         53%         53.53         513.94         513.94           1062         263         85         147         56%         3.530         3.324         517.47           1062         285         100         150         55%         3.593         521.07         55.107           1062         285         100         150         55%         4.023         3.797         55.107           1062         302         955         105         186         55%         4.051         52.64           1070         325         105         181         54%         4.45         4.63         53.30           1070         325         105         181         54%         4.061         53.30         55.66           1070         291         110         172         54%         4.134         3.664         53.60         55.66           1070         292         105         164         57%         5.44         5.65%         56.44           1070         292         105         164         57%         5.64%         5.45%         56.44           1071         260         166         <		9-Apr	1062	276	06	151	55%	3,626	3.414	510.38	108.78	102
1062         263         65         747         517.47           1062         286         100         150         53%         3.399         551.07           1062         286         100         150         53%         3.599         3.389         521.07           1062         302         95         166         55%         4.052         3.797         529.56           1070         325         125         186         55%         4.454         4.163         529.56           1070         323         105         181         54%         4.163         533.06           1070         292         110         172         54%         4.163         538.06           1070         292         110         167         54%         3.656         543.69           1070         292         106         164         54%         3.656         543.69           1070         260         90         146         54%         3.656         543.69           1071         260         90         146         54%         3.656         552.84           1071         284         105         54%         3.405         55		10-Apr	1062	280	83	148	53%	3,563	3.355	513.94	106.89	101
1062         285         100         150         53%         53%         5399         521.07         521.07           1062         302         95         168         55%         4.05         525.10         525.10           1070         325         125         186         57%         4.05         525.61         523.50           1070         325         125         181         54%         4.05         523.50         523.50           1070         323         105         181         54%         4.051         523.50         533.50           1070         323         105         110         172         54%         4.061         533.50         543.64           1070         291         110         167         54%         3.64         54.64         54.64           1070         202         90         145         54%         3.405         3.43         543.44           1070         256         90         145         54%         3.64         55.64         55.64           1071         260         90         145         54%         3.453         556.47         556.47           1071         204		11-Apr	1062	263	85	147	56%	3,530	3.324	517.47	105.90	100
1062         302         95         168         56%         4,032         3.797         525.10           1070         325         125         186         57%         4,454         4.163         529.65           1070         325         105         181         54%         4,154         4.163         553.09           1070         333         105         181         54%         4,134         3.664         533.00           1070         2921         110         172         59%         4,134         3.664         53.00           1070         2921         110         167         54%         54%         3.675         543.46           1070         291         106         164         54%         3.675         549.46         55.64           1070         256         90         145         54%         3.675         549.46         55.64           1071         266         90         151         58%         3.860         3.860.16         556.47           1071         264         80         154         58%         3.862         3.860.16         556.47           1071         264         90         164%		12-Apr	1062	285	100	150	53%	3,599	3.389	521.07	107.97	102
1070         325         125         186         57%         4,454         4.163         529.56         533.90         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47         556.47 <th< td=""><td></td><td>13-Apr</td><td>1062</td><td>302</td><td>95</td><td>168</td><td>56%</td><td>4,032</td><td>3.797</td><td>525.10</td><td>120.96</td><td>114</td></th<>		13-Apr	1062	302	95	168	56%	4,032	3.797	525.10	120.96	114
1070         333         105         181         54%         4.345         4.061         533.90         533.90           1070         292         110         172         59%         4.012         3.664         543.04         538.04           1070         291         110         167         57%         54%         3.647         543.04         543.04           1070         291         110         167         54%         3.402         3.565         549.44         549.44           1070         250         90         145         54%         3.405         3.543         549.44         549.44           1070         250         90         145         54%         3.405         3.565         569.4           1071         260         90         154         56%         3.405         3.453         569.4         566.4           1071         260         90         154         56%         3.562         3.564         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566.4         566		14-Apr	1070	325	125	186	57%	4,454	4.163	529.56	133.62	125
1070         292         110         172         59%         4,134         3.864         538.04         538.04           1070         291         110         167         57%         740         545.97         545.97           1070         302         105         164         54%         3.740         549.44         543.97           1070         302         105         145         54%         3.932         3.675         549.44         549.44           1070         256         75         142         54%         3.470         3.243         549.44         552.84           1071         266         90         142         54%         3.405         3.182         556.47         556.47           1071         264         90         151         58%         3.405         556.47         556.47           1071         284         105         161         57%         3.563         564.05         556.47           1071         284         105         161         57%         3.563         564.05         564.05           1071         284         105         161         57%         3.563         564.05         564.05		15-Apr	1070	333	105	181	54%	4,345	4.061	533,90	130.35	122
1070         291         110         167         57%         4,002         3.740         542.04           1070         302         105         164         54%         3.932         3.675         545.97         545.97           1070         302         105         164         54%         3.675         3.675         545.97           1070         256         90         145         58%         3.470         3.243         543.44           1071         265         75         142         58%         3.405         3.182         552.84           1071         260         90         151         58%         3.405         3.381         566.47           1071         294         80         154         57%         3.593         566.47         566.47           1071         294         80         161         57%         3.363         566.47         566.47           1071         284         105         161         57%         3.563         564.02         564.02           1071         286         96         164         57%         3.563         564.02         564.02           1071         260         95		16-Apr	1070	292	110	172	29%	4,134	3.864	538.04	124.02	116
1070         302         105         164         54%         3,932         3.675         545.97         545.97           1070         250         90         145         58%         3,470         3.243         549.44           1070         265         75         142         58%         54%         3.243         55.84           1070         265         75         142         58%         3.405         3.182         55.84           1071         260         90         151         58%         3.405         3.182         556.47           1071         260         90         151         58%         5.7%         3.591         566.16           1071         294         80         161         57%         3.553         3.567         564.02           1071         284         105         161         57%         3.553         3.567         564.02           1071         280         95         148         57%         3.563         3.567         564.02           1071         260         95         148         57%         3.563         3.567         564.02           1071         260         95 <td< td=""><td>1</td><td>17-Apr</td><td>1070</td><td>291</td><td>110</td><td>167</td><td>57%</td><td>4,002</td><td>3.740</td><td>542.04</td><td>120.06</td><td>112</td></td<>	1	17-Apr	1070	291	110	167	57%	4,002	3.740	542.04	120.06	112
1070         250         90         145         58%         3,470         3.243         549.44           1070         265         75         142         58%         3,405         3.182         552.84           1071         260         90         151         58%         3,405         3.182         556.47           1071         260         90         151         58%         3,621         3.381         566.16           1071         294         80         154         52%         3,623         3.453         560.16           1071         284         105         161         57%         3,852         3.597         564.02           1071         280         95         148         57%         3,543         567.56           1071         260         90         149         57%         3.597         567.56           1071         265         90         146         56%         3.572         3.376         571.13	ı	18-Apr	1070	302	105	164	54%	3,932	3.675	545.97	117.96	110
1070         265         75         142         54%         3,405         3.182         552.84         552.84           1071         260         90         151         58%         3.521         3.381         556.47         556.47           1071         294         80         154         58%         3.698         3.453         560.16         556.47           1071         294         80         154         57%         3.597         560.16         56.40           1071         284         105         161         57%         3.553         3.597         564.02         564.02           1071         280         95         161         57%         3.553         3.597         564.02         567.56           1071         260         90         149         57%         3.535         571.13         571.13           1071         265         90         146         55%         3.274         571.13         574.64		19-Apr	1070	250	06	145	58%	3,470	3.243	549.44	104.10	26
1071         260         90         151         58%         3,621         3.381         556.47           1071         294         80         154         52%         3,698         3.453         560.16           1071         284         105         161         57%         57%         3,597         564.02           1071         280         95         148         57%         3,592         3.597         564.02           1071         260         95         148         57%         3,543         3.308         567.56           1071         260         90         149         57%         3,572         3.308         571.13           1071         265         90         146         56%         56%         3.574         574.64		20-Apr	1070	265	75	142	24%	3,405	3.182	552.84	102.15	95
1071         294         80         154         52%         3,698         3,453         560.16         560.16           1071         284         105         161         57%         3,852         3.597         564.02         564.02           1071         280         95         148         57%         3,852         3.597         564.02         567.66           1071         260         95         148         57%         3,543         3.308         567.56         571.13           1071         260         90         149         57%         3.357         571.13         571.13           1071         265         90         146         55%         3.274         571.64         574.64		21-Apr	1071	260	06	151	%89	3,621	3.381	556.47	108.63	101
1071         284         105         161         57%         3,852         3.597         564.02           1071         260         95         148         57%         3.543         3.308         567.56           1071         260         90         149         57%         3.357         3.308         567.56           1071         265         90         146         55%         3.375         3.375         571.13		22-Apr	1071	294	80	154	52%	3,698	3.453	560.16	110.94	104
1071         260         95         148         57%         3,543         3.308         567.56           1071         260         90         149         57%         3,572         3.335         571.13           1071         265         90         146         55%         3,506         3.74         574.64		23-Apr	1071	284	105	161	57%	3,852	3.597	564.02	115.56	108
1071         260         90         149         57%         3.355         571.13           1071         265         90         146         55%         3.274         574.64		24-Apr	1071	260	95	148	57%	3,543	3.308	567.56	106.29	66
1071         265         90         146         55%         3,506         3.274         574.64		25-Apr	1071	260	06	149	57%	3,572	3.335	571.13	107.16	100
	L]	26-Apr	1071	265	06	146	55%	3,506	3.274	574.64	105.18	98

6002 ·X	Date 27-Apr 28-Apr	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	Consumption	(kwh)	Energy (MWh)	Monthly Energy	(kwh/Month)
	27-Apr 28-Apr		A second second	· · · · · · · · · · · ·	1		(kwh)	1		(MWN)	(minimum)
	28-Anr	10/1	268	85	156	58%	3,736	3.488	578.37	112.08	105
		1075	293	90	152	52%	3,651	3.396	582.02	109.53	102
	29-Apr	1075	259	85	150	58%	3,589	3.339	585.61	107.67	100
	30-Apr	1078	235	90	154	65%	3,684	3.417	589.30	110.52	103
	1-May	1078	263	95	155	29%	3,721	3.452	593.02	111.63	104
	2-May	1078	258	80	144	56%	3,444	3.195	596.46	103.32	96
۸ <sup>.</sup> 2009	3-May	1078	286	80	144	50%	3,460	3.210	599.92	103.80	96
<del>۷</del> . 20	4-May	1078	266	80	144	54%	3,454	3.204	603.38	103.62	96
۸·	5-May	1078	281	85	148	53%	3,555	3.298	606.93	106.65	66
E	6-May	1078	279	75	146	52%	3,502	3.249	610.43	105.06	67
sM	7-May	1083	267	06	149	56%	3,571	3.297	614.00	107.13	66
	8-May	1083	295	85	157	53%	3,772	3.483	617.78	113.16	104
	9-May	1083	277	80	150	54%	3,590	3.315	621.37	107.70	66
	10-May	1083	252	85	148	59%	3,540	3.269	624.91	106.20	98
	11-May	1083	269	80	145	54%	3,488	3.221	628.39	104.64	67
	12-May	1083	285	85	158	55%	3,796	3.505	632.19	113.88	105
	13-May	1083	275	100	163	59%	3,908	3.608	636.10	117.24	108
	14-May	1089	275	06	152	55%	3,653	3.354	639.75	109.58	101
	15-May	1089	291	06	145	50%	3,488	3.203	643.24	104.64	96
[	16-May	1089	265	80	137	52%	3,295	3.026	646.53	98.85	91
	17-May	1089	265	6	140	53%	3,354	3.080	649.89	100.62	92
	18-May	1089	275	70	144	52%	3,450	3.168	653.34	103.50	95
	19-May	1089	240	80	139	58%	3,335	3.062	656.67	100.05	92
	20-May	1089	272	80	145	53%	3,477	3.193	660.15	104.31	96
	21-May	1092	257	80	142	55%	3,397	3.111	663.55	101.91	63
	22-May	1092	263	85	145	55%	3,470	3.178	667.02	104.10	95
	23-May	1092	260	80	137	53%	3,280	3.004	670.30	98.40	06
	24-May	1092	265	70	135	51%	3,245	2.972	673.54	97.35	89
	25-May	1092	250	75	140	56%	3,365	3.082	676.91	100.95	92
	26-May	1092	270	75	145	54%	3,475	3.182	680.38	104.25	95
-	27-May	1092	250	80	144	58%	3,460	3.169	683.84	103.80	95
-	28-May	1100	275	80	142	52%	3,410	3.100	687.25	102.30	93
-	29-May	1100	290	80	143	49%	3,434	3.122	690.69	103.02	94
	30-May	1100	255	80	140	55%	3,350	3.045	694.04	100.50	91

		Number of		Demand		Daily Load	Energy Daily	nor Costimor	Cumulative	Assumed	ner Costumer
Month	Date	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	Consumption (kwh)	kwh)	Energy (MWh)	Monthly Energy (MWh)	(kwh/Month)
	31-May	1100	272	80	141	52%	3,374	3.067	697.41	101.22	92
	1-Jun	1100	275	52	140	51%	3,368	3.062	700.78	101.04	92
<u></u>	2-Jun	1100	268	52	141	52%	3,376	3.069	704.15	101.28	92
6	3-Jun	1100	265	75	141	53%	3,389	3.081	707.54	101.67	92
600	4-Jun	1100	140	52	137	%86	3,294	2,995	710.84	98.82	06
2	5-Jun	1100	250	02	137	%55	3,285	2.986	714.12	98.55	06
un	6-Jun	1100	250	75	131	52%	3,138	2.853	717.26	94.14	86
<u>ر</u>	7-Jun	1103	255	85	140	55%	3,355	3.042	720.61	100.65	91
<u> </u>	8-Jun	1103	260	80	140	54%	3,365	3.051	723.98	100.95	92
	ց-Jun	1103	270	80	144	53%	3,455	3.132	727.43	103.65	94
<u> </u>	10-Jun	1103	277	80	149	54%	3,587	3.252	731.02	107.61	98
	11-Jun	1103	255	80	142	26%	3,415	3.096	734.44	102.45	93
	12-Jun	1103	265	80	145	55%	3,490	3.164	737.93	104.70	95
	13-Jun	1103	280	80	141	50%	3,385	3.069	741.31	101.55	92
	14-Jun	1110	270	06	143	53%	3,440	3.099	744.75	103.20	93
	15-Jun	\$110	255	58	142	56%	3,405	3.068	748.16	102.15	92
	16-Jun	1110	240	52	143	%65	3,423	3.084	751.58	102.69	93
	17-Jun	1110	255	75	144	57%	3,465	3.122	755.04	103.95	94
	18-Jun	1110	250	06	148	59%	3,558	3.205	758.60	106.74	96
	19-Jun	1110	255	40	144	56%	3,456	3.114	762.06	103.68	93
	20-Jun	1110	255	75	136	53%	3,270	2.946	765.33	98.10	88
	21-Jun	1110	260	75	133	51%	3,200	2.883	768.53	96.00	86
	22-Jun	1110	260	92	146	56%	3,505	3.158	772.03	105.15	95
<b></b>	23-Jun	1110	260	80	149	57%	3,565	3.212	775.60	106.95	96
	24-Jun	1110	260	85	150	58%	3,610	3.252	779.21	108.30	98
·	25-Jun	1110	275	95	154	56%	3,705	3.338	782.91	111.15	100
	26-Jun	1110	240	85	150	63%	3,610	3.252	786.52	108.30	98
	27-Jun	1110	270	90	141	52%	3,380	3.045	789.90	101.40	91
	28-Jun	1110	240	85	135	56%	3,250	2.928	793.15	97.50	88
	29-Jun	1110	270	80	148	55%	3,560	3.207	796.71	106.80	96
	30-Jun	1112	255	90	151	59%	3,630	3.264	800.34	108.90	98
	1-ปนไ	1112	265	85	147	56%	3,530	3.174	803.87	105.90	95
	2-Jul	1112	270	70	146	54%	3,505	3.152	807.38	105.15	95
	3-Jul	1112	255	70	144	57%	3,460	3.111	810.84	103.80	93

		Number of		Demand		Daily Load	Energy Dally	per Costumer	Cumulative		per Costumer
монтп	Late	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	Consumption (kwh)	(kwh)	Energy (MWh)	Montniy Energy (MWh)	(kwh/Month)
6(	4-Jul	1112	288	70	142	49%	3,413	3.069	814.25	102.38	92
500	5-Jul	1112	250	80	138	55%	3,300	2.968	817.55	00.99	89
: .lı	6-Jul	1112	260	75	141	54%	3,380	3.039	820.93	101.40	91
<u> </u> ר	7-Jul	1116	270	70	145	54%	3,480	3.118	824.41	104.40	94
	8-Jul	1116	265	75	148	56%	3,545	3.177	827.96	106.35	95
	9-Jul	1116	255	80	149	58%	3,580	3.208	831.54	107.40	96
	10-Jul	1116	270	85	151	56%	3,620	3.244	835.16	108.60	67
	11-Jul	1116	285	80	149	52%	3,580	3.208	838.74	107.40	96
	12-Jul	1116	280	85	150	54%	3,607	3.232	842.34	108.21	97
	13-Jul	1116	260	90	152	58%	3,645	3.266	845.99	109.35	86
	14-Jul	1119	260	75	147	56%	3,525	3.150	849.51	105.75	95
	15-Jul	1119	280	85	154	55%	3,690	3.298	853.20	110.70	66
	16-Jul	1119	255	85	154	%09	3,695	3.302	856.90	110.84	66
	17-Jul	1119	265	85	150	%29	3,600	3.217	860.50	108.00	97
	18-Jul	1119	265	80	141	53%	3,380	3.020	863.88	101.40	91
	19-Jul	1119	250	75	136	54%	3,265	2.918	867.14	97.95	88
	20-Jul	1119	270	80	143	53%	3,425	3.061	870.57	102.74	92
	21-Jul	1122	270	75	144	53%	3,460	3.084	874.03	103.80	93
	22-Jul	1122	250	75	145	%89	3,470	3.093	877.50	104.10	93
	23-Jul	1122	270	70	140	52%	3,370	3.003	880.87	101.10	06
	24-Jul	1122	280	75	147	52%	3,525	3.142	884.39	105.75	94
L	25-Jul	1122	275	75	141	51%	3,390	3.021	887.78	101.70	91
	26-Jul	1122	265	90	150	56%	3,590	3.200	891.37	107.70	96
	27-Jul	1122	270	6	150	56%	3,605	3.213	894.98	108.14	96
	28-Jul	1128	260	75	145	56%	3,490	3.094	898.47	104.70	93
1	29-Jul	1128	250	80	146	58%	3,500	3.103	901.97	105.00	93
	30-Jul	1128	220	85	144	65%	3,450	3.059	905.42	103.50	92
	31-Jul	1128	260	75	143	55%	3,420	3.032	908.84	102.60	91
L_	1-Aug	1128	255	75	141	55%	3,390	3.005	912.23	101.70	06
	2-Aug	1128	240	75	139	58%	3,345	2.965	915.57	100.35	89
6	3-Aug	1128	250	54	147	%65	3,525	3.125	919.10	105.75	94
00	4-Aug	1128	265	02	148	%99	3,555	3.152	922.65	106.65	95
2 · F	5-Aug	1128	279	85	156	56%	3,750	3.324	926.40	112.50	100
br	6-Aug	1128	270	80	156	58%	3.736	3.312	930.14	112.08	00

10-ug         1122         270         85         146         54%         3.505         3.227         948.35           11-Aug         1132         270         85         153         55%         3.653         3.217         946.35           12-Aug         1132         270         85         151         55%         3.653         3.217         965.50           15-Aug         1137         256         80         154         56%         3.653         3.117         965.50           15-Aug         1137         256         80         144         56%         3.653         3.117         965.51           15-Aug         1137         256         80         144         46%         3.63         3.117         966.17           15-Aug         1137         260         60         144         46%         3.220         963.73           15-Aug         1137         266         80         144         46%         3.220         963.73           15-Aug         1140         270         86         146         56%         3.66         3.740         97.34           22-Aug         1140         270         86         3.46         3.	Month Date 7-Aug 8-Aug 9-Aug	Number of Costumer 1132 1132 1132	Max (kw) 260 285 245	Demand Min (kw) 80 85 90	Ave (kw) 153 154 150	Daily Load Factor % 59% 54% 61%	Energy Daily Consumption (kwh) 3,660 3,685 3,590	per Costumer (kwh) 3.233 3.255 3.171	Cumulative           Energy (MWh)           933.80           937.48           937.48		Assumed Monthly Energy (MWh) 109.80 110.55 107.70
1132 $276$ $86$ $151$ $56%$ $3.655$ $3.11$ $3.11$ $1137$ $276$ $80$ $154$ $56%$ $3.656$ $3.250$ $3.017$ $1137$ $250$ $80$ $143$ $57%$ $3.455$ $3.039$ $3.017$ $1137$ $2260$ $80$ $129$ $56%$ $3.645$ $3.039$ $3.017$ $1137$ $2260$ $80$ $129$ $56%$ $3.455$ $3.039$ $2.720$ $1137$ $2260$ $80$ $129$ $56%$ $3.613$ $3.039$ $2.720$ $1137$ $2260$ $80$ $134$ $48%$ $3.613$ $3.162$ $3.039$ $1137$ $2260$ $80$ $134$ $48%$ $3.616$ $3.162$ $1.6$ $1137$ $2260$ $80$ $148$ $56%$ $3.616$ $3.165$ $1.6$ $1140$ $270$ $80$ $148$ $56%$ $3.66$ $3.165$ $1.6$ $1140$ $270$ $80$ $148$ $56%$ $3.66$ $3.050$ $1.6$ $1140$ $270$ $80$ $148$ $56%$ $3.66$ $3.050$ $1.1$ $1140$ $270$ $80$ $147$ $56%$ $3.720$ $3.165$ $1.1$ $1140$ $270$ $80$ $147$ $56%$ $3.66$ $3.260$ $1.1$ $1140$ $270$ $80$ $147$ $56%$ $3.720$ $1.1$ $1140$ $270$ $80$ $143$ $56%$ $3.720$ $1.1$ $1140$ $270$ $80$ $146$	10-Aug 11-Aug 12-Aug	1132 1132 1132	270 260 270	85 80 85	146 152 153	54% 59% 57%	3,505 3,653 3,670		944.58 948.23 951.90		105.15 109.58 110.10
1137         250         80         143         57%         3,450         3,017         962.66           1137         265         75         144         54%         3,455         3,039         966.11           1137         256         80         129         52%         3,033         2,720         969.21           1137         256         85         151         154         59%         3,618         3,732         967.13           1137         2565         85         151         156%         3,540         3,142         967.23           1140         270         96         148         56%         3,540         3,145         97.23           1140         270         96         143         55%         3,540         3,145         97.23           1140         270         96         148         55%         3,540         3,175         997.39           1140         270         96         143         55%         3,540         3,165         1,000.96           1140         270         96         145         55%         3,650         3,145         1,000.96           1140         275         900	13-Aug 14-Aug	1132	275 275	85 80	151 154	55% 56%	3,635 3,695		955.53 959.23		109.04 110.84
1137         250         80         129         52%         3,083         2,720         968.21           1137         280         60         134         48%         3,222         2834         973.43           1137         285         85         151         56%         3,679         3,182         976.05           1137         285         80         153         56%         3,570         3,693         973.43           1137         285         80         143         56%         3,550         3,144         983.28           1140         270         86         143         55%         3,540         3,165         990.24           1140         270         86         143         55%         3,540         3,174         997.36           1140         270         86         143         55%         3,540         3,175         997.46           1140         270         80         144         55%         3,540         3,175         1,006.9           1140         275         80         144         54%         3,560         3,175         1,016.6           1140         276         126         145         <	15-Aug 16-Aug	1137 1137	250 265	80 75	143 144	57% 54%	3,430		962.66 966.11		102.90 103.64
1137         255         85         151         59%         3,618         3,182         976.05           1137         265         80         153         69%         3,679         3,679         973.73           1140         255         75         148         56%         3,540         3,105         968.82           1140         270         90         148         55%         3,540         3,105         968.82           1140         270         85         143         53%         3,105         969.24           1140         270         86         143         55%         3,145         969.73           1140         276         90         148         55%         3,145         1,000.86           1140         276         90         147         54%         3,65         3,145         1,003.66           1140         276         90         147         54%         3,550         3,077         1,016.76           1141         256         90         147         54%         3,550         1,016.67         1,016.76           1148         256         80         147         54%         3,550         1,016.57	17-Aug 18-Aug	1137 1137	250 280	80	129 134	52% 48%	3,093		969.21		92.79 96.66
1140         255         75         148         58%         3,550         3,114         983.28           1140         270         90         148         55%         3,540         3,105         986.82           1140         270         90         148         55%         3,420         3,105         980.24           1140         270         86         143         55%         3,420         3,105         980.35           1140         275         80         148         55%         3,540         3,105         997.39           1140         275         90         149         55%         3,145         1,000.96           1140         275         90         145         56%         3,650         3,145         1,006.4           1140         275         90         145         56%         3,650         3,077         1,016.7           1148         275         80         140         56%         3,550         3,090         1,068.4           1148         275         80         146         56%         3,550         1,016.7         1,016.7           1149         275         80         145         56%	19-Aug 20-Aug	1137	255 265	85 80	151 153	59% 58%	3,618		976.05 979.73		108.54 110.37
1140         270         90         148         55%         3,540         3,105         966.82           1140         270         86         143         55%         3,420         3,105         990.24           1140         270         80         148         55%         3,470         3,000         990.24           1140         285         75         151         53%         3,615         3,171         997.39           1140         285         75         161         53%         3,615         3,145         1,000.96           1140         285         90         149         54%         3,563         3,145         1,001.66           1140         265         90         145         56%         3,552         3,077         1,011.67           1148         255         80         147         56%         3,552         1,003.68         1,001.66           1148         255         80         140         55%         3,552         1,016.63         1,016.63           1148         255         80         143         55%         3,550         1,016.63         1,016.63           1149         256         80 <td< td=""><td>21-Aug</td><td>1140</td><td>255</td><td>75</td><td>148</td><td>58%</td><td>3,550</td><td></td><td>983.28</td><td></td><td>106.50</td></td<>	21-Aug	1140	255	75	148	58%	3,550		983.28		106.50
1140         270         80         148         55%         3,540         3,105         993.78           1140         285         75         161         53%         3,615         3,171         997.39           1140         285         75         161         53%         3,615         3,115         997.39           1140         285         75         149         54%         3,585         3,145         1,000.98           1140         265         90         149         54%         3,585         3,145         1,001.46           1140         265         90         147         56%         3,585         3,077         1,011.67           1148         275         86         147         56%         3,355         2,922         1,016.65           1148         255         80         140         55%         3,355         1,016.65         1,016.65           1149         266         80         140         55%         3,550         3,077         1,016.56           1149         260         80         153         56%         3,550         3,076         1,016.56           1149         270         714         56	22-Aug 23-Aug	1140	270 270	90 85	148 143	55% 53%	3,540		986.82		106.20 102.60
1140         285         75         151         53%         3,615         3,171         997.39           1140         275         90         149         54%         3,585         3,145         1,000.98           1140         275         90         149         54%         3,585         3,145         1,000.98           1140         265         90         145         56%         3,485         3,075         1,008.14           1148         2750         85         147         54%         3,532         3,077         1,011.67           1148         2756         85         147         54%         3,552         3,077         1,011.67           1148         2755         80         140         55%         3,550         1,011.67         1,015.63           1149         275         80         140         55%         3,550         1,016.56         1,015.63           1149         260         80         153         59%         3,550         1,015.63         1,025.91           1149         270         75         152         56%         3,560         1,016.56         1,015.63           1150         270         77	24-Aug	1140	270	80	148	55%	3,540		993.78		106.20
1140         265         90         153         58%         3,680         3,286         1,004.66           1148         250         70         145         56%         3,485         3,036         1,008.14           1148         275         85         147         54%         3,535         3,077         1,011.67           1148         255         80         140         55%         3,550         3,077         1,011.67           1148         255         80         140         55%         3,550         3,077         1,015.03           1149         256         80         140         55%         3,550         3,090         1,015.03           1149         260         80         153         59%         3,560         3,016         1,015.03           1149         270         75         152         56%         3,683         3,205         1,025.16           1149         270         75         152         56%         3,683         3,205         1,025.16           1150         270         75         152         56%         3,683         3,777         1,025.13           1150         260         85	25-Aug 26-Aug	1140	285 275	75 90	151 149	53% 54%	3,615 3,585		997.39		108.45 107.55
1148         260         70         145         56%         3,485         3.036         1,008.14           1148         275         85         147         54%         3,532         3.077         1,011.67           1148         275         85         147         55%         3.550         3.077         1,015.03           1149         265         80         140         55%         3,550         3.090         1,015.03           1149         260         80         143         56%         3,560         3.077         1,015.03           1149         260         80         153         56%         3,563         1,015.03           1149         270         75         153         3.205         1,015.03           1149         270         75         3.77         1,025.91         7           1150         270         75         3.177         1,025.91         7           1150         270         85         3.205         1,025.91         7           1150         270         75         3.177         1,025.91         7           1150         270         7         3.206         1,022.26         7	27-Aug	140	265	06	153	58%	3,680		1,004.66	1	110.40
1148         275         85         147         54%         3,532         3.077         1,011.67           1148         255         80         140         55%         3,355         2.922         1,018.68           1149         265         80         148         56%         3,550         3.090         1,018.58           1149         260         80         153         59%         3,550         3.090         1,018.58           1149         260         80         153         59%         3,563         3.077         1,018.58           1149         260         80         153         59%         3,563         1,018.56         1,018.56           1149         270         75         153         56%         3,563         3,177         1,025.91           1150         270         756         3,177         1,025.91         1,025.91           1150         270         85         3,216         1,025.91         1,025.91           1150         270         85         3,218         1,025.82         1,025.82           1150         260         85         3,218         1,025.82         1,022.82           1150         <	28-Aug	1148	260	70	145	56%	3,485		1,008.14	10	104.55
1148         255         80         140         55%         3.355         2.922         1,015.03           1149         265         80         148         56%         3.550         3.090         1,015.65           1149         266         80         153         55%         3.650         3.090         1,016.56           1149         260         80         153         55%         3.650         3.177         1,025.91           1149         270         75         152         56%         3,650         3.177         1,025.91           1150         270         75         152         56%         3,650         3.177         1,025.91           1150         270         75         154         50%         3,650         3.177         1,025.91           1150         270         85         154         50%         3,218         1,025.91         1,025.91           1150         270         85         154         59%         3,218         1,025.82         1,025.63           1150         270         85         154         59%         3.208         1,025.82         1,025.63           1150         276         86	29-Aug	1148	275	85	147	54%	3,532		1,011.67	10	105.96
1149         265         80         148         56%         3.550         3.090         1,018.58           1149         260         80         153         59%         3.650         3.090         1,018.58           1149         270         75         152         56%         3.650         3.177         1,022.91           1149         270         75         152         56%         3,650         3.177         1,025.91           1150         270         75         152         56%         3,218         2.798         1,025.82           1150         260         85         154         59%         3,218         2,093         1,025.82           1150         260         85         154         59%         3,218         1,023.82         1,032.82           1150         260         85         159         59%         3,313         1,032.82         1,032.82           1150         276         80         3.313         1,032.82         1,032.82         1,032.82           1150         276         80         154         58%         3.3209         1,040.32         1,044.08           1150         275         756         77	30-Aug	1148	255	80	140	55%	3,355		1,015.03	10(	100.65
1149         260         80         153         59%         3,683         3.205         1,022.26           1149         270         75         152         56%         3,650         3,177         1,025.91           1150         270         75         134         56%         56%         3,177         1,025.91           1150         270         75         134         50%         3,218         2,798         1,029.13           1150         260         85         154         59%         3,218         2,798         1,025.82           1150         260         85         154         59%         3,218         1,025.13         1,025.82           1150         260         85         154         59%         3,218         1,032.82         1,032.82           1150         270         85         154         58%         3,313         1,035.63         1,035.63           1150         265         80         154         58%         3,509         1,040.32         1,044.08           1150         275         75         157         5769         1,044.08         1,044.08         1,044.08         1,044.08         1,044.08         1,044.08	31-Aug	1149	265	80	148	56%	3,550		1,018.58	106	106.50
1149         270         75         152         56%         3,650         3,177         1,025.91           1150         270         75         134         50%         3,218         2,798         1,025.43           1150         270         75         154         50%         3,218         2,798         1,023.13           1150         260         85         154         59%         3,810         3,036         1,032.82           1150         270         85         159         59%         3,810         3,313         1,036.63           1150         265         80         154         58%         3,690         3.313         1,036.63           1150         275         80         154         58%         3,690         3.209         1,036.63           1150         275         75         750         3.209         1,040.32         1,044.08	1-Sep	1149	260	80	153	29%	3,683		1,022.26	110	110.48
1150         270         75         134         50%         3,218         2.798         1,029.13           1150         260         85         154         59%         3,689         3.208         1,032.82           1150         270         85         159         59%         3,810         3.313         1,036.63           1150         270         85         159         58%         59%         1,910         1,036.63           1150         265         80         154         58%         3,690         3.313         1,036.63           1150         265         70         154         58%         5,690         3.209         1,040.32           1150         275         75         157%         57%0         3.269         1,044.08	2-Sep	1149	270	75	152	56%	3,650		1,025.91	105	109.50
1150         260         85         154         59%         3,689         3.208         1,032.82           1150         270         85         159         59%         3,810         3.313         1,036.63           1150         265         80         154         58%         3,810         3.313         1,036.63           1150         265         80         154         58%         3,690         3.209         1,040.32           1150         275         75         157         57%         3,760         3.269         1,044.08	3-Sep	1150	270	75	134	50%	3,218		1,029.13	96	96.54
1150         270         85         159         59%         3,810         3.313         1,036.63           1150         265         80         154         58%         3,690         3.209         1,040.32           1150         275         75         157%         57%         3,760         3.269         1,044.08	4-Sep	1150	260	85	154	29%	3,689		1,032.82	110	110.66
1150         265         80         154         58%         3,690         3.209         1,040.32           1150         275         75         157         57%         3,760         3.269         1,044.08	5-Sep	1150	270	35	159	59%	3,810		1,036.63	114	114.30
1150         275         75         157         57%         3,760         3.269         1,044.08	6-Sep	1150	265	80	154	58%	3,690		1,040.32	110	110.70
	7-Sep	1150	275	52	157	57%	3,760		1,044.08	112	112.80
	9-Sep	1151	275	75	157	57%	3,770	3.275	1,051.65	113.10	10

	Late 10-Sep	Costumer	Max (kw)				Consumption		Encross (MMA/h)		(kwh/Month)
	10-Sep		1	Min (kw)	Ave (kw)	Factor %	(kwh)	(kwh)	Effergy (INIVII)	(MWh)	(Internet and
	-	1151	285	75	153	54%	3,670	3.188	1,055.32	110.10	96
	11-Sep	1151	270	80	153	57%	3,680	3.197	1,059.00	110.40	96
	12-Sep	1151	275	85	145	53%	3,478	3.022	1,062.47	104.34	91
	13-Sep	1151	280	80	146	52%	3,505	3.045	1,065.98	105.15	91
	14-Sep	1151	260	80	145	56%	3,490	3.032	1,069.47	104.70	91
	15-Sep	1151	265	70	143	54%	3,425	2.975	1,072.89	102.74	68
	16-Sep	1152	250	75	141	56%	3,380	2.934	1,076.27	101.40	88
	17-Sep	1152	260	75	133	51%	3,200	2.778	1,079.47	96.00	83
<u> </u>	18-Sep	1152	220	80	126	57%	3,030	2.630	1,082.50	90.90	62
	19-Sep	1152	245	70	130	53%	3,110	2.700	1,085.61	93.30	81
	20-Sep	1152	230	85	131	57%	3,155	2.739	1,088.77	94.64	82
	21-Sep	1152	240	75	134	56%	3,225	2.799	1,091.99	96.75	84
	22-Sep	1152	250	75	139	56%	3,330	2.891	1,095.32	06.66	87
	23-Sep	1154	260	80	143	55%	3,440	2.981	1,098.76	103.20	68
	24-Sep	154	280	80	143	51%	3,425	2.968	1,102.19	102.74	89
	25-Sep	1155	265	80	150	%29	3,595	3.113	1,105.78	107.85	93
	26-Sep	1155	260	85	141	54%	3,375	2.922	1,109.16	101.25	88
	27-Sep	1156	275	80	149	54%	3,580	3.097	1,112.74	107.40	93
	28-Sep	1156	285	20	157	55%	3,760	3.252	1,116.50	112.80	98
L	29-Sep	1156	270	84	137	51%	3,294	2.849	1,119.79	98.82	85
<u> </u>	30-Sep	1156	255	80	154	60%	3,695	3.196	1,123.49	110.84	96
	1-Oct	1156	265	70	144	54%	3,465	2.997	1,126.95	103.95	06
	2-Oct	1157	270	70	142	23%	3,415	2.952	1,130.37	102.45	89
	3-0ct 3-0ct	1157	250	75	139	55%	3,325	2.874	1,133.69	99.75	86
60	4-Oct	1157	265	75	143	54%	3,440	2.973	1,137.13	103.20	89
500	5-Oct	1157	260	80	142	55%	3,405	2.943	1,140.54	102.15	88
	6-Oct	1161	255	80	142	56%	3,400	2.928	1,143.94	102.00	88
0	7-Oct	1161	260	75	142	55%	3,415	2.941	1,147.35	102.45	88
	8-Oct	1162	275	70	143	52%	3,430	2.952	1,150.78	102.90	89
L	9-Oct	1162	280	80	143	51%	3,440	2.960	1,154.22	103.20	89
	10-Oct	1163	265	70	143	%†9	3,435	2.954	1,157.66	103.05	89
	11-Oct	1163	280	70	144	51%	3,446	2.963	1,161.10	103.38	89
	12-Oct	1163	280	75	148	53%	3,540	3.044	1,164.64	106.20	91
	13-Oct	1163	285	80	147	51%	3,520	3.027	1,168.16	105.60	91

Month	Dafe	Number of		Demand		Daily Load	Energy Daily Consumption	per Costumer	Cumulative	Assumea Monthly Enerav	per Costumer
		Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	(kwh)	(kwh)	Energy (MWh)	(MWh)	(kwh/Month)
	14-Oct	1164	285	75	148	52%	3,555	3.054	1,171.72	106.65	92
	15-Oct	1164	265	52	149	26%	3,580	3.075	1,175.30	107.40	92
	16-Oct	1164	280	80	154	65%	3,685	3.166	1,178.98	110.55	95
	17-Oct	1164	290	80	156	54%	3,745	3.217	1,182.73	112.35	97
	18-Oct	1165	280	80	154	55%	3,695	3.172	1,186.42	110.84	95
	19-Oct	1165	295	22	157	53%	3,760	3.227	1,190.18	112.80	97
	20-Oct	1165	275	06	156	57%	3,745	3.215	1,193.93	112.35	96
	21-Oct	1165	290	80	159	55%	3,825	3.283	1,197.75	114.75	98
	22-Oct	1165	295	06	156	53%	3,745	3.215	1,201.50	112.35	96
	23-Oct	1165	280	85	156	56%	3,740	3.210	1,205.24	112.20	96
	24-Oct	1165	270	85	149	55%	3,570	3.064	1,208.81	107.10	92
	25-Oct	1165	310	85	144	47%	3,460	2.970	1,212.27	103.80	89
	26-Oct	1165	315	80	114	36%	2,735	2.347	1,215.00	82.04	70
	27-Oct	1165	310	70	102	33%	2,439	2.094	1,217.44	73.17	63
	28-Oct	1165	265	80	147	56%	3,537	3.036	1,220.98	106.11	91
	29-Oct	1166	280	80	145	52%	3,480	2.985	1,224.46	104.40	06
	30-Oct	1166	285	80	148	52%	3,555	3.049	1,228.01	106.65	91
	31-Oct	1166	320	80	152	47%	3,640	3.122	1,231.65	109.20	94
	1-Nov	1166	300	06	160	53%	3,850	3.302	1,235.50	115.50	66
	2-Nov	1166	280	86	150	54%	3,606	3.093	1,239.11	108.18	93
e	3-Nov	1166	280	80	150	54%	3,600	3.087	1,242.71	108.00	93
500	4-Nov	1167	270	75	140	52%	3,365	2.883	1,246.07	100.94	86
2.	5-Nov	1167	285	20	149	52%	3,570	3.059	1,249.64	107.10	92
١٥٧	6-Nov	1167	280	80	154	55%	3,685	3.158	1,253.33	110.55	95
N	7-Nov	1167	300	06	158	53%	3,795	3.252	1,257.12	113.85	98
	8-Nov	1170	325	85	162	50%	3,888	3.323	1,261.01	116.64	100
	9-Nov	1171	275	80	152	55%	3,655	3.121	1,264.66	109.65	94
	10-Nov	1171	310	75	155	50%	3,720	3.177	1,268.38	111.60	95
	11-Nov	1171	285	85	160	56%	3,835	3.275	1,272.22	115.05	98
	12-Nov	1171	300	95	165	55%	3,960	3.382	1,276.18	118.80	101
	13-Nov	1173	285	80	156	55%	3,750	3.197	1,279.93	112.50	96
	14-Nov	1173	290	06	154	53%	3,690	3.146	1,283.62	110.70	94
	15-Nov	1173	285	75	149	52%	3,575	3.048	1,287.19	107.24	91
	16-Nov	1173	300	80	159	53%	3,820	3.256	1,291.01	114.60	98

Constration         Matrix (wor)         Matrix (wor) </th <th>Month</th> <th>Data</th> <th>Number of</th> <th></th> <th>Demand</th> <th></th> <th>Daily Load</th> <th>Energy Daily</th> <th>per Costumer</th> <th>Cumulative</th> <th>Assumed</th> <th>per Costumer</th>	Month	Data	Number of		Demand		Daily Load	Energy Daily	per Costumer	Cumulative	Assumed	per Costumer
17-Nov         1173         305         900         105         3.320         1.24466         115.00           16Nov         1173         2305         00         105         3.740         113.070         113.070           17-Nov         1175         2305         00         159         55%         3.740         3.140         113.070           17-Nov         1178         2305         00         159         55%         3.700         3.140         113.070         110.00           22-Nov         1178         305         05         150         155         3.700         3.140         113.07         111.00           22-Nov         1178         305         05         105         155         3.700         3.140         111.00           22-Nov         1178         300         107         110         25%         3.700         3.140         111.00           22-Nov         1178         300         107         105         105         105.01         111.00           22-Nov         1180         300         3.140         13.024         111.00         110.01           22-Nov         1180         300         3.261         13.261		202	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	(kwh)	(kwh)	Energy (MWh)	(MWh)	(kwh/Month)
(1)         (1) <th></th> <td>17-Nov</td> <td>1173</td> <td>305</td> <td>80</td> <td>160</td> <td>53%</td> <td>3,850</td> <td>3.282</td> <td>1,294.86</td> <td>115.50</td> <td>98</td>		17-Nov	1173	305	80	160	53%	3,850	3.282	1,294.86	115.50	98
30.400         1175         2800         680         59%         57.00         11.0.00		18-Nov	1173	315	80	160	51%	3,840	3.274	1,298.70	115.20	98
20-bolov         1175         200         70         154         5300         1306.1         10.706         10.70           2.1-bolov         1178         205         60         159         51%         3.710         3.145         11.317.1         110.10           2.2-bolov         1178         205         60         159         55%         3.770         3.145         11.30.7         111.40           2.2-bolov         1178         205         60         160         157         2.5%         3.760         3.145         11.140         11.140           2.2-bolov         1178         200         60         160         155         2.5%         3.760         3.145         11.140         11.140           2.2-bolov         1118         200         160         157         25%         3.461         3.263         11.147         11.140           2.2-bolov         11180         200         160         157         25%         3.461         12.3064         11.14           2.9-bolov         11180         200         159         157         11.266         11.14           2.9-bolov         1161         200         159%         3.475         11.406 <th></th> <td>19-Nov</td> <td>1175</td> <td>290</td> <td>80</td> <td>158</td> <td>54%</td> <td>3,780</td> <td>3.217</td> <td>1,302.48</td> <td>113.40</td> <td>97</td>		19-Nov	1175	290	80	158	54%	3,780	3.217	1,302.48	113.40	97
21-Houx         1178         256         60         149         51%         3.043         1,30.75         1,0.56         1,0.56           22-Houx         1178         266         70         153         3.73         3.143         111.40         111.40           24-Houx         1178         266         70         153         5.5%         3.70         3.146         111.40         111.40           24-Houx         1178         266         70         155         55%         3.70         3.146         111.60         112.80           24-Houx         1178         206         70         155         155         3.265         115.01         116.06         117.80           25-Houx         1178         300         75         155         9.5%         3.765         115.260         117.41         110.60           27-Houx         1180         301         75         165         9.6%         3.761         113.61         110.61         112.80           27-Houx         1181         300         70         160         3.763         113.61         111.74           27-Houx         1181         301         3.105         11.60         113.61		20-Nov	1175	290	70	154	53%	3,690	3.140	1,306.17	110.70	94
Z-Nov         1178         305         155         157         1130         1130         1130           Z-Nov         1178         236         70         165         52%         3.70         3.165         137.14         11010           Z-Nov         1178         236         70         165         52%         3.70         3.165         1.32.470         111.60           Z-Nov         1178         300         90         167         52%         3.735         3.165         1.32.470         111.60           Z-Nov         1180         300         167         166         52%         3.755         3.266         111.64           Z-Nov         1180         301         75         166         53%         3.755         1.32.81         116.64           Z-Nov         1180         301         75         168         3.75         1.32.81         116.64           Z-Nov         1180         301         75         168         3.75         1.32.81         116.64           Z-Nov         1180         301         13.64         3.75         3.66         1.32.81         1.15.64           Z-Nov <th1180< th="">         301         3.67<th></th><td>21-Nov</td><td>1178</td><td>295</td><td>80</td><td>149</td><td>51%</td><td>3,585</td><td>3.043</td><td>1,309.76</td><td>107.55</td><td>91</td></th1180<>		21-Nov	1178	295	80	149	51%	3,585	3.043	1,309.76	107.55	91
23-blow         1178         236         70         153         173         1730.05         1710.0         170.0           25-blow         1178         205         70         160         23.66         133.05         150.00         161.010           25-blow         1178         300         80         157         25.86         3.452         133.04         116.00           25-blow         1180         300         80         157         25.86         133.26         133.26         15.46         15.46           27-blow         1180         300         75         15.96         3.45         3.45         13.364         11.17.4           27-blow         1180         300         75         4.90         3.45         13.45         13.32.4         14.17.4           30-blow         1181         230         15         5.96         4.10         3.45         13.34.5         14.17.4           30-blow         1181         230         16         5.96         4.10         3.45         13.34.5         14.17.4           30-blow         1181         230         25.46         4.10         3.45         13.34.5         14.17.4           30-blow		22-Nov	1178	305	65	155	51%	3,710	3.149	1,313.47	111.30	94
24-Nov         1178         266         70         156         53%         3,750         11,80         13,34,70         11,160         13,34,70         11,606           25-Nov         1100         300         75         160         55%         3,848         3,266         15,34,70         11,604           27-Nov         1180         300         75         160         55%         3,848         3,267         13,32,46         11,604           27-Nov         1180         300         75         165         95%         3,848         3,267         11,614         16,64           28-Nov         1180         300         75         165         95%         3,849         3,675         11,644         11,644           28-Nov         1180         300         75         165         95%         3,849         3,675         11,644         11,644           28-Nov         1180         301         702         165         170         16,64         11,644         11,644           29-Nov         1181         344         165         170         11,644         11,644         11,644         11,644         11,644         11,644         11,644         11,644	<u> </u>	23-Nov	1178	295	70	153	52%	3,670	3.115	1,317.14	110.10	93
Z5-Nov         1178         305         66         160         22%         3182         1324.70         1156         1536.40           Z6-Nov         1178         300         56         157         5.765         3.192         1.333.41         11.6.66           Z6-Nov         1180         310         75         155         50%         3.192         1.333.45         11.7.40           Z8-Nov         1180         310         75         157         1.336.86         11.7.40           Z8-Nov         1180         310         75         3.197         1.336.80         10.32.2           Z8-Nov         1180         310         756         166         96%         3.644         3.086         10.32.2           Z9-Nov         1181         340         95         166         96%         3.462         1.335.62         15.11           Z9-Nov         1181         340         97         3.462         1.335.62         15.11         12.236           Z9-Nov         1181         320         16         96%         3.462         1.355.62         15.12         12.236           J0-Dec         1181         320         16         9.06         3.4		24-Nov	1178	295	70	155	53%	3,730	3.166	1,320.87	111.90	95
Ze-Nov         1178         300         60         167         52%         3780         3182         11.284.6         11.280           Z7-Nov         1180         300         75         166         160         55%         5.6%         1.357.31         11.54.4         11.74.4           Z9-Nov         11810         310         70         125         3.157         1.356.46         11.74.6           Z9-Nov         1180         310         7.0         125         3.157         1.356.46         11.74           Z9-Nov         1180         320         66         160         60%         3.67         3.252         1.34.62         13.61.7           20-Nov         1181         320         66         170         49%         7.05         3.267         1.34.62         12.65.9           20-Nov         1181         320         66         170         49%         7.05         1.34.63         12.75.9           20-Nov         1181         320         66         164         55%         4.043         3.226         1.54.63         17.50           20-Nov         1181         320         1161         342         1.34.63         17.50         17.50<		25-Nov	1178	305	85	160	52%	3,835	3.255	1,324.70	115.05	98
Z7.Nov         1180         300         75         180         53%         3167         113.231         115.44           28-Nov         1180         310         75         155         3157         1336.60         117.44           28-Nov         1180         330         65         165         165         155         156.61         116.14           20-Nov         1180         330         65         160         56%         3.637         3.262         136.16         116.17           20-Nov         1181         330         65         170         64%         3.667         1.345.60         116.17         123.26           2-Dec         1181         330         176         64%         3.69         3.567         1.361.76         123.26           2-Dec         1181         320         164         50%         3.368         1.7760         123.26         177.6           2-Dec         1181         320         166         50%         3.369         1.7760         177.60         175.69           2-Dec         1181         320         166         51%         3.567         1.365.61         177.60         177.65           2-Dec		26-Nov	1178	300	80	157	52%	3,760	3.192	1,328.46	112.80	96
28-Nov         1180         310         75         155         50%         3.57         1.38.0.6         11.7.4         11.7.4           29-Nov         1180         310         70         122         49%         3.647         3.087         1.335.60         11.1.4         1           29-Nov         1180         330         567         1.336.70         1.335.60         11.1.4         1           4.006         1181         340         17.0         69%         3.67         1.347.60         12.2.2.66         1           2.Dec         1181         320         867         170         44.05         3.459         1.347.61         122.24         1           2.Dec         1181         320         86         176         49%         3.405         1.347.61         122.26         17.0           3.Dec         1161         320         86         176         4.05         3.45         1.367.71         126.36         17.0           4.Dec         1162         367         164         3.06         1.366.71         1.366.91         17.76         17.95           5.Dec         1162         367         1162         3.66         1.375.71         116.		27-Nov	1180	300	75	160	53%	3,848	3.261	1,332.31	115.44	98
2P-Nov         1180         310         70         152         49%         3.644         3.068         1.33.568         103.32         115.11           J-DNov         1180         320         65         100         50%         3.857         1.34.52         115.11         12.356           J-Dno         1181         320         65         170         55%         4,109         3.455         1.34.552         15.31.71         12.254           J-Dec         1181         320         85         176         55%         4,103         3.455         1.35.596         17.20           J-Dec         1181         330         85         164         55%         4,013         3.422         1.35.696         17.120           J-Dec         1181         330         85         164         55%         4,013         3.342         1.35.696         17.120           J-Dec         1182         319         85         164         51%         3.342         1.35.696         17.120           J-Dec         1182         319         91         3.345         1.35.692         1.17.60         117.50           J-Dec         1182         310         1.31         3.3		28-Nav	1180	310	75	155	50%	3,725	3.157	1,336.04	111.74	95
30.Nuv         1180         320         66         160         50%         3,837         3,243         1,34,52         1,11.1           2.Dec         1181         346         170         4708         3,459         1,351,71         12,354         123.26           2.Dec         1181         330         85         170         49%         4,018         3,459         1,365,92         153.4           2.Dec         1181         320         85         164         55%         4,013         3,328         1,365,92         123.26         13           4.Dec         1181         320         85         164         55%         4,041         3,328         1,365,92         117.50         123.26           5.Dec         1181         325         85         164         55%         3,941         3,328         1,367.41         116.22           7.Dec         1182         319         85         164         55%         3,941         3,326         1,37.77         116.52           7.Dec         1182         300         165         45%         3,941         3,367.41         117.50         117.50           1.Dec         1182         301         166% <th></th> <td>29-Nov</td> <td>1180</td> <td>310</td> <td>20</td> <td>152</td> <td>49%</td> <td>3,644</td> <td>3.088</td> <td>1,339.68</td> <td>109.32</td> <td>93</td>		29-Nov	1180	310	20	152	49%	3,644	3.088	1,339.68	109.32	93
1-Dec $1180$ $336$ $80$ $171$ $61%$ $4,106$ $3.42$ $1.34.763$ $12.326$ $123.17$ $12.36$ $123.17$ $123.64$ $123.17$ $123.64$ $123.17$ $123.64$ $123.17$ $123.64$ $123.17$ $123.64$ $123.17$ $123.64$ $123.123$ $123.64$ $123.64$ $123.64$ $123.64$ $123.34$ $123.67$ $113.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.64$ $123.66$ $123.64$ $123.64$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $123.66$ $123.64$ $12$		30-Nov	1180	320	65	160	50%	3,837	3.252	1,343.52	115.11	86
2-Dec         1161         344         86         170         49%         4,065         3,450         1,351,71         1,2544         1           3-Dec         1181         320         80         176         55%         4,213         3.567         1,355,92         1563         1	•	1-Dec	1180	336	80	171	51%	4,109	3.482	1,347.63	123.26	104
3-Dec11813208017665%4,2133.5671,356.92126.39126.394-Dec11813308516851%50%3.32813.36.96117.90121.2315-Dec11813258516450%50%3.32813.36.96117.90116-Dec118231985516451%5.9413.3421.357.84118.2216-Dec118231985516451%5.9413.3451.375.96117.9017-Dec11823198516455%45%3.3451.375.97118.2218-Dec11823578016545%3.5923.3161.375.96171.668-Dec11823048516545%3.5923.3161.375.97116.528-Dec11823048516545%3.5923.3161.7166116.528-Dec11823048516546%3.5021.365.611.71661.75611-Dec11823048516649%4.4053.3041.365.611.71661.744.7511-Dec11863138517754%3.5641.305.611.72401.744.7511-Dec11863109017754%4.4163.5641.406.161.744.7511-Dec11853281183.61<	•	2-Dec	1181	344	85	170	49%	4,085	3.459	1,351.71	122.54	104
4-Dec11813308616851%4,0413.4221,359612.12315-Dec11813258516450%3,9303.3281,363.69117.90117.9016-Dec11823198516451%50%3,9313.3341,357.61116.22117-Dec11822599016916956%4,0503.4261,371.89115.00118-Dec1182330110216916246%3,9843.2861,375.77116.22118-Dec11823309016348%3.9643.2601,375.77116.22119-Dec11823309016346%3,9723.3181,375.67116.2219-Dec11823309016346%3,9723.3181,375.67116.22111-Dec118233085516565%3,9723.3011,375.69117.66111-Dec118233085516749%3.4001,375.61117.66111-Dec118533085517754%3.4001,395.65120.76111-Dec118533085517754%3.661,366.7711111-Dec11853308517754%3.671,395.65120.7611<		3-Dec	1181	320	80	176	55%	4,213		1,355.92	126.39	107
<b>5-Dec</b> 11813258516450%50%3.3281.363.69117.00117.00 <b>6-Dec</b> 11823198516451%51%3.341.367.64118.22118.22 <b>7-Dec</b> 1182357801601653.4267.376.77116.52116.52116.52 <b>8-Dec</b> 11823578016246%3.8643.2861.375.77116.52116.52 <b>8-Dec</b> 11823409016348%51%3.9073.3011.376.77116.52117.66 <b>9-Dec</b> 11823198616794%51%3.9023.3011.367.67117.66117.66 <b>11-Dec</b> 118231086516749%54%3.9073.9161.337.67117.66117.66 <b>11-Dec</b> 118231386516749%54%3.9173.9371.393.67117.66117.66 <b>11-Dec</b> 118531386517755%1773.9401.393.67117.66127.47 <b>11-Dec</b> 118531386517755%1.306.761.306.76123.74123.67 <b>11-Dec</b> 118531386517755%1.306.761.306.76123.47123.67 <b>11-Dec</b> 118531090017755%1.4063.5601.406.76123.47124.47 <b>11-Dec</b> 118531090017755%	60	4-Dec	1181	330	85	168	51%	4,041	3.422	1,359.96	121.23	103
6-Dec11823198516461%3.9413.3341.367.84118.2217-Dec11822999016966%65%7.4057.4761.377.67116.52115.678-Dec11823578016245%85%8.2861.375.77116.52115.67116.529-Dec118234090016346%5.9223.3181.375.67115.67116.5219-Dec11823188616656%5.9723.3011.375.69117.66111-Dec11823048616656%5.9723.3011.383.59117.66111-Dec11823048616656%4.9193.4001.383.59117.66112-Dec11823138616665%4.9193.3011.383.59117.66112-Dec11863338617754%3.3641.385.61123.67123.6714-Dec11863338617754%3.3641.386.76123.67123.6714-Dec11863338617754%3.5641.386.76123.67123.6714-Dec11863338617754%3.5641.386.76123.67123.6714-Dec11863338617754%14.463.561123.47123.4716-Dec118630	500	5-Dec	1181	325	85	164	20%	3,930	3.328	1,363.89	117.90	100
7-Dec         1182         299         90         169         56%         4,050         3,426         1,371.89         121.50           8-Dec         1182         357         80         162         45%         3,884         3.286         1,376.77         116.52           8-Dec         1182         357         80         163         46%         3,922         3.318         1,376.67         116.52           9-Dec         1182         340         96         163         65%         3,907         3.364         1,376.96         17.066           11-Dec         1182         318         85         165         49%         3,907         3.364         1,397.57         11930         17.06           11-Dec         1182         313         85         165         49%         3,907         3.367.51         17.06         17.06           12-Dec         1182         313         85         165         65%         3,917         3.367.51         17.06         12.447           13-Dec         1182         313         85         177         55%         3.367         1,387.51         12.447           15-Dec         1185         316         1716	.0	6-Dec	1182	319	85	164	51%	3,941	3.334	1,367.84	118.22	100
1182         357         80         162         45%         3.884         3.286         1,375.77         116.52         116.52           1182         340         90         163         48%         3.922         3.318         1,375.69         117.66         1           1182         318         85         163         51%         3.902         3.301         1,383.59         117.66         1           1182         318         85         167         49%         5,902         3.301         1,383.59         117.06         1           1182         318         85         167         49%         5,902         3.301         1,387.57         119.30         177.06           1182         313         85         167         49%         4,019         3.400         1,387.57         119.30         177.06           1185         313         85         167         49%         4,019         3.501         1,395.61         120.78         120.56           1186         350         1186         3.501         1,395.61         1,404.01         127.40         1.444.4           1186         308         90         177         57%         4,148	Ъe	7-Dec	1182	299	06	169	56%	4,050	3.426	1,371.89	121.50	103
1182         340         90         163         48%         3.922         3.318         1.379.69         117.66         1           1182         318         85         163         51%         3.902         3.301         1.385.59         117.06         1           1182         318         85         166         55%         5.9%         3.907         1.387.57         119.30         1           1182         304         85         167         49%         4,019         3.400         1,387.57         119.30         1           1185         313         85         167         49%         4,019         3.400         1,387.57         119.30         1           1185         313         85         167         49%         4,019         3.400         1,395.61         120.78         1		8-Dec	1182	357	80	162	45%	3,884	3.286	1,375.77	116.52	66
1182         318         85         163         51%         3,902         3.301         1,387.57         117.06         1           1182         304         85         166         55%         3,977         3.364         1,387.57         119.30         1           1182         304         85         167         49%         4,019         3.364         1,391.59         105.66         105.67         119.30         1           1185         313         85         166         54%         4,012         3.397         1,391.59         120.56         120.447           1185         313         85         177         54%         4,149         3.501         1,399.76         120.78         120.740           1185         310         90         177         54%         4,149         3.561         1,20.56         127.40         1           1185         310         90         177         54%         4,149         3.561         1,20.56         127.40         1           1185         310         310         3.584         1,404.01         127.40         1         1         1         1         1         1         1         1         1 </td <th></th> <td>9-Dec</td> <td>1182</td> <td>340</td> <td>06</td> <td>163</td> <td>48%</td> <td>3,922</td> <td>3.318</td> <td>1,379.69</td> <td>117.66</td> <td>100</td>		9-Dec	1182	340	06	163	48%	3,922	3.318	1,379.69	117.66	100
1182         304         85         166         55%         3,977         3,364         1,387.57         119.30           1182         340         85         167         49%         4,019         3,400         1,387.57         119.30         105.66           1185         340         85         167         49%         4,019         3,400         1,391.59         120.56         120.56           1185         313         85         177         54%         4,149         3.501         1,395.61         120.78         14.47           1185         333         85         177         54%         4,247         3.584         1,404.01         127.40         127.40           1185         310         90         177         54%         4,243         3.584         1,408.25         127.49         127.40           1185         310         90         177         55%         4,148         3.500         1,416.50         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49         127.49 <td< td=""><th></th><td>10-Dec</td><td>1182</td><td>318</td><td>85</td><td>163</td><td>51%</td><td>3,902</td><td></td><td>1,383.59</td><td>117.06</td><td>66</td></td<>		10-Dec	1182	318	85	163	51%	3,902		1,383.59	117.06	66
1182         340         85         167         49%         4,019         3.400         1,391.59         120.56         120.56           1185         313         85         168         54%         4,026         3.397         1,395.61         120.78         120.78           1185         313         85         173         52%         4,149         3.501         1,395.61         120.78         120.78           1185         333         85         177         52%         4,149         3.501         1,395.61         120.78         120.78           1185         327         85         177         54%         4,149         3.561         1,395.76         127.40         127.40           1185         310         90         177         57%         4,148         3.581         1,404.01         127.40         127.40           1187         308         90         177         57%         4,148         3.560         1,416.52         127.29         127.49         124.44           1187         308         90         177         56%         4,148         3.560         1,416.52         127.49         123.48         13.444         144.44         144.44		11-Dec	1182	304	85	166	55%	3,977	3.364	1,387.57	119.30	101
1185         313         85         168         54%         4,026         3.397         1,395.61         120.78         1           1185         333         85         173         52%         4,149         3.501         1,399.76         124.47         1           1185         327         85         177         54%         4,149         3.584         1,404.01         127.40         1           1185         310         90         177         57%         4,243         3.584         1,408.25         127.40         1           1185         310         90         177         57%         4,148         3.584         1,408.25         127.40         1           1187         308         90         177         56%         4,148         3.560         1,412.40         127.40         1           1187         308         90         172         56%         4,146         3.468         1,416.52         127.49         1           1187         308         90         172         56%         4,146         3.468         1,416.52         127.49         1           1187         328         90         1,416.52         124.44 <t< td=""><th></th><td>12-Dec</td><td>1182</td><td>340</td><td>85</td><td>167</td><td>%67</td><td>4,019</td><td></td><td>1,391.59</td><td>120.56</td><td>102</td></t<>		12-Dec	1182	340	85	167	%67	4,019		1,391.59	120.56	102
1185         333         85         173         52%         4,149         3.501         1,399.76         124.47         1           1185         327         85         177         54%         4,247         3.584         1,404.01         127.40         127.40           1185         310         90         177         57%         4,247         3.584         1,404.01         127.40         127.40           1185         310         90         177         57%         4,243         3.581         1,408.25         127.29         127.40         124.44         148         1418         3.500         1147.40         124.44         145.14         124.44		13-Dec	1185	313	85	168	54%	4,026		1,395.61	120.78	102
1185         327         85         177         54%         4,247         3.584         1,404.01         127.40         127.40           1185         310         90         177         57%         4,243         3.581         1,408.25         127.29         127.29           1185         308         90         177         56%         4,148         3.500         1,416.52         127.29         127.40           1187         308         90         173         56%         4,146         3.500         1,416.52         127.49         124.44           1187         308         90         172         56%         4,116         3.468         1,416.52         123.48         12.48         12.44           1187         327         95         170         52%         4,068         3.427         1,416.52         123.48         12.48         12.48         12.48         12.48         12.48         12.48         12.44         12.48         12.48         12.48         12.48         12.44         12.44         12.44         12.44         12.44         12.44         12.44         12.44         12.44         14.44         14.416         12.48         12.48         12.48         12.4		14-Dec	1185	333	85	173	52%	4,149		1,399.76	124.47	105
1185         310         90         177         57%         4,243         3.581         1,408.25         127.29           1185         308         90         173         56%         4,148         3.500         1,412.40         124.44           1187         308         90         172         56%         4,116         3.468         1,416.52         123.48           1187         327         95         170         52%         4,068         3.427         1,416.52         123.48           1187         327         95         170         52%         4,068         3.427         1,416.52         123.48           1187         288         90         168         58%         4,058         12,420.59         120.49		15-Dec	1185	327	85	177	54%	4,247	3.584	1,404.01	127.40	108
1185         308         90         173         56%         4,148         3.500         1,412.40         124.44           1187         308         90         172         56%         4,116         3.468         1,416.52         123.48         1           1187         327         95         170         52%         4,068         3.458         1,416.52         123.48         1           1187         327         95         170         52%         4,068         3.427         1,416.52         123.48         1           1187         228         95         170         52%         4,068         3.427         1,426.59         122.04         1           1187         288         90         168         58%         4,033         3.398         1,424.62         120.99         1		16-Dec	1185	310	06	177	57%	4,243		1,408.25	127.29	107
1187         308         90         172         56%         4,116         3.468         1,416.52         123.48           1187         327         95         170         52%         4,068         3.427         1,420.59         122.04           1187         288         90         168         58%         4,033         3.398         1,424.62         120.99		17-Dec	1185	308	06	173	56%	4,148		1,412.40	124.44	105
1187         327         95         170         52%         4,068         3,427         1,420.59         122.04           1187         288         90         168         58%         4,033         3.398         1,424.62         120.99		18-Dec	1187	308	06	172	56%	4,116		1,416.52	123.48	104
1187         288         90         168         58%         4,033         3.398         1,424.62         120.99		19-Dec	1187	327	<u> 96</u>	170	52%	4,068		1,420.59	122.04	103
		20-Dec	1187	288	06	168	58%	4,033		1,424.62	120.99	102

			Demana		Daily Load	Consumption	per Costumer	Cumulative	Monthly Fnerov	per Costumer
	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	(kwh)	(kwh)	Energy (MWh)	(MWh)	(kwh/Month)
21-Dec	1188	327	92	173	53%	4,146	3.490	1,428.76	124.38	105
22-Dec	1189	320	06	173	54%	4,141	3.483	1,432.91	124.23	104
23-Dec	1189	312	80	171	55%	4,103	3.451	1,437.01	123.08	104
24-Dec	1190	303	95	172	57%	4,128	3.469	1,441.14	123.84	104
25-Dec	1190	303	06	173	57%	4,163	3.498	1,445.30	124.88	105
26-Dec	1190	313	85	170	54%	4,090	3.437	1,449.39	122.70	103
27-Dec	1190	344	06	176	51%	4,231	3.555	1,453.62	126.93	107
28-Dec	1191	326	85	178	55%	4,271	3.586	1,457.89	128.12	108
29-Dec	1191	338	80	175	52%	4,189	3.517	1,462.08	125.67	106
30-Dec	1191	330	80	171	52%	4,096	3.439	1,466.18	122.88	103
31-Dec	1191	355	85	186	52%	4,469	3.752	1,470.64	134.06	113
1-Jan	1191	342	110	199	58%	4,785	4.018	1,475.43	143.55	121
2-Jan	1194	390	100	202	52%	4,856	4.067	1,480.29	145.68	122
3-Jan	1194	324	110	193	60%	4,642	3.888	1,484.93	139.26	117
4-Jan	1194	319	100	181	57%	4,336	3.631	1,489.26	130.08	109
5-Jan	194	329	100	183	56%	4,399	3.684	1,493.66	131.97	111
6-Jan	1194	320	06	178	56%	4,266	3.573	1,497.93	127.98	107
7-Jan	1194	325	06	188	58%	4,501	3.770	1,502.43	135.03	113
8-Jan	1196	302	85	185	61%	4,449	3.720	1,506.88	133.47	112
9-Jan	1197	296	06	185	63%	4,442	3.711	1,511.32	133.26	111
10-Jan	1997	302	110	184	61%	4,415	2.211	1,515.73	132.44	66
11-Jan	1198	312	100	182	58%	4,366	3.644	1,520.10	130.98	109
12-Jan	1198	316	95	187	29%	4,478	3.738	1,524.58	134.34	112
13-Jan	1200	370	06	194	52%	4,648	3.873	1,529.23	139.44	116
14-Jan	1200	327	100	193	59%	4,634	3.862	1,533.86	139.02	116
15-Jan	1200	353	06	193	55%	4,622	3.852	1,538.48	138.66	116
16-Jan	1200	350	100	191	54%	4,577	3.814	1,543.06	137.30	114
17-Jan	1200	365	100	197	54%	4,727	3.939	1,547.79	141.80	118
18-Jan	1200	320	105	192	60%	4,608	3.840	1,552.39	138.24	115
19-Jan	1201	343	06	196	57%	4,710	3.922	1,557.10	141.30	118
20-Jan	1201	319	95	186	58%	4,472	3.723	1,561.58	134.16	112
21-Jan	1201	310	35	187	60%	4,490	3.738	1,566.07	134.70	112
22-Jan	1203	303	90	182	60%	4,368	3.631	1,570.43	131.04	109
23-Jan	1203	339	95	185	55%	4,438	3.689	1,574.87	133.13	111

R.4 ~ ~ 4 h		Number of		Demand		Daily Load	Energy Daily	per Costumer	Cumulative	Assumed	per Costumer
	nale	Costumer	Max (kw)	Min (kw)	Ave (kw)	Factor %	Consumption (kwh)	(kwh)	Energy (MWh)	Monthly Energy (MWh)	(kwh/Month)
	24-Jan	1203	331	100	194	29%	4,656	3.870	1,579.53	139.68	116
	25-Jan	1203	337	95	182	54%	4,367	3.630	1,583.89	131.00	109
	26-Jan	1204	347	85	188	54%	4,510	3.746	1,588.40	135.30	112
	27-Jan	1204	325	100	191	%69	4,594	3.815	1,593.00	137.82	114
	28-Jan	1204	322	06	188	%89	4,503	3.740	1,597.50	135.09	112
	29-Jan	1204	316	105	192	61%	4,612	3.830	1,602.11	138.36	115
	30-Jan	1204	337	100	196	%85	4,697	3.901	1,606.81	140.90	117
	31-Jan	1204	330	100	192	58%	4,617	3.835	1,611.43	138.51	115
	1-Feb	1204	320	105	184	%89	4,426	3.676	1,615.85	132.78	110
	2-Feb	1204	321	100	190	%69	4,564	3.791	1,620.42	136.92	114
C	3-Feb	1204	324	100	186	67%	4,464	3.708	1,624.88	133.92	111
110	4-Feb	1205	350	110	195	26%	4,682	3.885	1,629.56	140.46	117
2 .0	5-Feb	1205	319	100	189	69%	4,540	3.768	1,634.10	136.20	113
qə_	6-Feb	1205	330	95	195	%65	4,678	3.882	1,638.78	140.34	116
1	7-Feb	1205	335	100	193	58%	4,638	3.849	1,643.42	139.14	115
	8-Feb	1205	346	95	194	%99	4,647	3.856	1,648.06	139.41	116
	9-Feb	1206	325	105	194	%09	4,651	3.857	1,652.72	139.53	116
	10-Feb	1207	330	110	194	%65	4,658	3.859	1,657.37	139.74	116
	11-Feb	1207	329	110	192	58%	4,607	3.817	1,661.98	138.20	115
	12-Feb	1207	342	105	192	26%	4,616	3.824	1,666.60	138.48	115
	13-Feb	1207	320	115	192	%09	4,612	3.821	1,671.21	138.36	115
	14-Feb	1207	402	105	202	50%	4,842	4.012	1,676.05	145.26	120
	15-Feb	1207	376	145	219	58%	5,258	4.356	1,681.31	157.74	131
	16-Feb	1207	355	140	217	61%	5,197	4.306	1,686.50	155.91	129
	17-Feb	1207	355	126	212	60%	5,087	4.214	1,691.59	152.60	126
	18-Feb	1208	336	120	203	60%	4,860	4.023	1,696.45	145.80	121
	19-Feb	1209	327	110	199	61%	4,786	3.959	1,701.24	143.58	119
	20-Feb	1209	326	100	201	62%	4,831	3.996	1,706.07	144.93	120
	21-Feb	1209	325	128	188	58%	4,505	3.726	1,710.57	135.14	112
	22-Feb	1209	336	120	184	55%	4,425	3.660	1,715.00	132.75	110
	23-Feb	1209	322	112	193	60%	4,637	3.835	1,719.63	139.10	115
	24-Feb	1209	334	100	194	58%	4,645	3.842	1,724.28	139.35	115
	25-Feb	1209	315	110	200	64%	4,805	3.974	1,729.08	144,14	119
	26-Feb	1209	321	108	197	61%	4,733	3.915	1,733.82	141.98	117

	(kwh/Month)	113	115																				
Assumed	Monthly Energy (MWh)		138.96																				
Cumulative	Energy (MWh)	1,738.39	1,743.02																				
per Costumer	(kwh)	3.780	3.831																				
Energy Daily	consumpuon (kwh)	4,570	4,632	-	I	1	1	3		5	1	I	1	1		I	I	1		ı	T	- B	
Daily Load	Factor %	27%	61%																				
	Ave (kw)	190	193							-													
Demand	Min (kw)	105	123																				
	Max (kw)	332	319																				
Number of	Costumer	1209	1209																				
Date	המוב	27-Feb	28-Feb	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	
Manth						I		01	50	31.	W				I		I	I <u> </u>	L	L	L.,	L	L

Appendix 4–2

¢	1.	10.60																				
ar ⊨=	Generator(v)		PH I	Speed	N/X	Cose	GWH	Ge	Generator(A)	(A)	Bus	Bus	DC	Endine	Endine Temp(oc)	()	Gen.Te	Gen.Temp(OC)	-	-	Room	No
	st	Æ			11			ĸ	S	1-	S	(A)	>	A	10	-	Ex 3	38G 49	49GU 49GV	V 49GW		meter
-	top	100	2	0015,	90	P.10,0	13599.9	55	2	23	100		011	8	21512	1	15	-			-	10011
-	Dice	31	9	Cid D	9,3	0,016	d/SkijStal	22	sn	10	100		-	10			4 97. G F 0		A H L I	1000 0	17	INCI I
-	CIUD	400	50		22	190	12,894.1	34	たり	10/0	12/21			000	-	1	11/11/2	5 1	di la	0110	200	1112111
-	1977	(01)	33	995	36	ORI	13902	Set	25	-	400	T	-	-	0 0 0 0	1	11 0000	11 20	100	3	20	$S_{1}$
-	1917	Gel.	B	260	42	10000	129066	12	たち	-	Amm	T		-	2.	2 2	1	-	100 100	1444 a	_	4145
	101	104	8	1760	1.1		52021	149	10		1900			100	0 94	100 0 AL	35	-		24418	_	1343
-	101	Lean	Ç	266	20	1000	199250	die ta	11.1.	18	A A	T	100	1.0	3.0	5	20	-	(CI)	157	3 8	F 1214
-	11.61	100	e	396			2431 4	1.01	1 51	-	11.001				242 6	3 0 0	212 11 11 11 11 11 11 11 11 11 11 11 11	1-16	1 26	2 166 2	-	11342
-	Lint	1751	dis	592	00		15 012011	12,00	137	-	1 No		10	1 2 12 12	64 10 CH 10	2 00K	0000 2 2000	ギー	1000	14-1-1- B	36	51575
-	101	NON	B	cier2.	100	1 K	150408	131	1/2	109	201	1	10	0000	10 20		PULLIN IN	10	A HINE	2101-	100	111121
-	401	1001	8	203	00	4 1	2.050 21	118	VAV	1140	1000	1	0	A 000	1-	100	211 1 122	20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CLUD I	200	1 11.6 2
-	101	101	R	249	At	A I	149183	118	-		000		100	0,00 Pt	15	6	STI S	10	1000	10	00	202.10
-	1.001	LAD.]	50	992	50	1 1	33725 E	-201	103	110	Cath.	1	0	59.8	87 0 73	-	900E 10	G	0.01	C it	200	11510
-		100	2	445	23	A I	£18621	12.3	125	12.8	140		10	2 84	1-	0	9.8	10	10	0 60 0		11010
-	10A	401	22	1.68	23	1 1	1309161	128	138		400		0	200	400	1 days	0 00	0 02	2 29	1000	200	A STATE
-	401	401	100	000	10	_	176662	140	120	2	400		110 0	(cie) is-	11 14	19 2 PM	240	12	S 60 6	100	202	21200
-	LAO1	1017	20	2610	11	1.11	Linco, b.	ML	580	29	CINC -	5	(E /	111 4	01 1 60	2 2 1	016	P	犯	100	200	VETT
-	Und	1111	29	693	5	1 1	U.020 0	956	120	5.20	NV.	-	1-	S MG	Ê		VIR.	20	000	ALC.		16211
-	401	4.01	8	994 5	200	1 1	(2704)	203	303	0	100		100	18.		17	27 V E	200		2014	0.0	1170 B
-1	I GVI	1217	0		194	1 11	10.9294	296	296	-	1400	-	15 0	0000	2.6 601			1000	1010	2000	200	1000
2	401 1	401	20	994	40	1 1	06.850H	Nix	10	-	1. 20-00	1		1000	0000	1001	4.0	-	M	222	Π.	1 1004
-	Wol.	100	8		83-1	A N	140555	5.5	1361	1361	8		1	0.000	27 27	12	11/10	1010	7	0 10 V	200	化学
-	120	Tap	_	ant 1	1	064 11	51396917	96	SC 10	OS I	000	-	N ON	4.60 SS	4	1C		ころ	2116 0	いたり	1	11/201
-	101	1017	B	620	18	0/T/U	14101/1	68	83	63 1	10017	-	10 6	18 61	5	5	STROTE	3464	Lee.	0 46,2	58	41902
9	( Deputy	Approved by Deputy director					Confiemed by Chief	o ha pa	Chief			Nan	e of O	Name of Operators			Ę	tal Runt	Total Running Hours.	-	46.8	50
Ω.	Technical ant Operation Div	tion Div.					140	T & O Division	u.													
Signature			÷							v	1	(1)				(2)			(3)			1
Meter 41						- BUG	1															
2						Note: 1)	(1)									-	Motor 11					

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No.         No. <th>Tanna</th> <th>8</th> <th>10 C 10 C</th> <th>#</th> <th>Suesd P</th> <th>Press</th> <th>N</th> <th>w</th> <th>Var</th> <th>8</th> <th>Generation(A)</th> <th></th> <th>444</th> <th>(V)mit</th> <th>*</th> <th>3</th> <th>-</th> <th>1</th> <th>1</th> <th>Line(A)</th> <th>F</th> <th></th> <th>Tens</th> <th>Temperature(10)</th> <th></th> <th>*</th> <th>that Land</th> <th>Water Laural</th> <th></th> <th></th>	Tanna	8	10 C 10 C	#	Suesd P	Press	N	w	Var	8	Generation(A)		444	(V)mit	*	3	-	1	1	Line(A)	F		Tens	Temperature(10)		*	that Land	Water Laural		
TD     TD     TD     R     Second 1/2 To C     S<	-	5	E		1	4				æ	áŋ.	1	-	_	-	MA .	Taken	H.	н;		-	-	-	F	"	1	Tarte	of Tranks	White Level of GB	of Marter
Color         Cr: (All Mark FC (SC) (2         Ref         A (all Mark FC (SC) (2         A (all	-	0		-	-	-		2	0	30			4	ca		69	28083.1	10	02		59	-	Ē	6	14	16				
cols         TS (RU) (AS 7a)         CA         R         R         RU         AS 7         A         Lo         S         R         A         Lo         S         R         R         R         A         Lo         S         R </td <td></td> <td>0</td> <td></td> <td>-</td> <td>+</td> <td>6</td> <td>-</td> <td></td> <td>E</td> <td>80</td> <td></td> <td>0</td> <td>-</td> <td>2</td> <td></td> <td>60</td> <td>28088r</td> <td></td> <td>08</td> <td></td> <td>2</td> <td>1</td> <td>-</td> <td></td> <td>1.2</td> <td>1</td> <td>4</td> <td></td> <td></td> <td></td>		0		-	+	6	-		E	80		0	-	2		60	28088r		08		2	1	-		1.2	1	4			
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All     Bit Res     Ro     Bit Res     B	-	0	1	_		10		0	0	80		-	14	00			P.Rueola	339.05	80	-	6		-	-						
με     Σε μαι Δι ζ 2 (5)     (8)     β Δ Δ Δ     (5)     (5)     (5)     (1)     με     (2) <td></td> <td>0</td> <td>1</td> <td>-</td> <td>-</td> <td>En</td> <td>-</td> <td>0</td> <td>0</td> <td></td> <td>-</td> <td></td> <td>4</td> <td>10</td> <td></td> <td></td> <td>38106.0</td> <td></td> <td>80</td> <td>-</td> <td>10</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>		0	1	-	-	En	-	0	0		-		4	10			38106.0		80	-	10		-					1		
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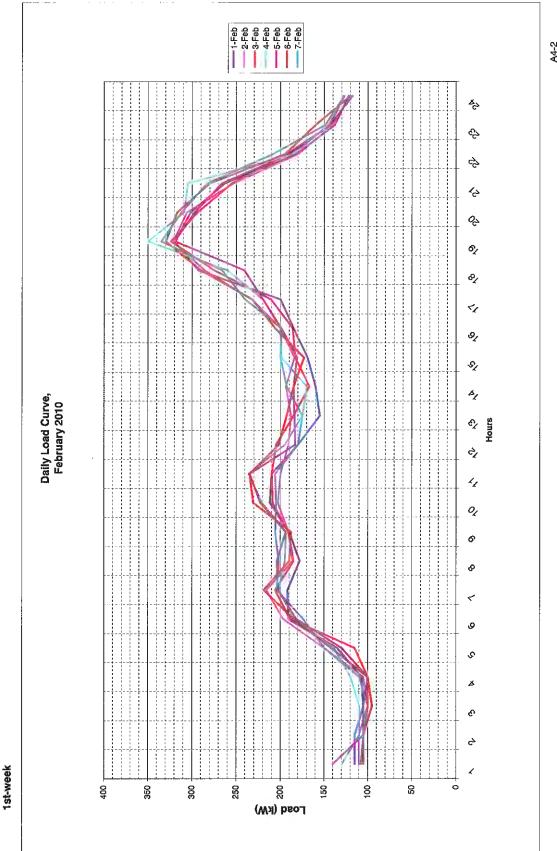
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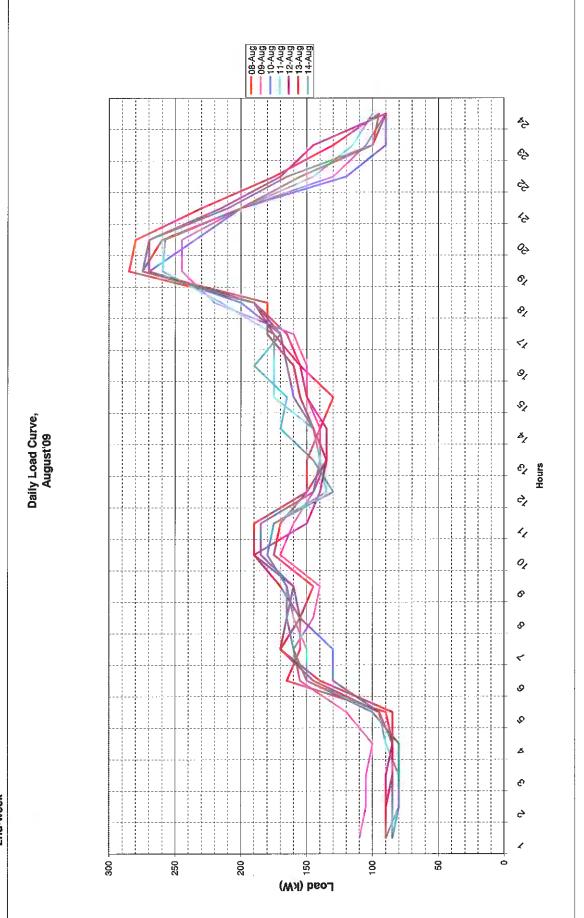
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          86         181           170         220           213         2319           214         199           170         220           213         319           223         319           213         302           214         138           82         138           82         138           82         319           223         319           223         319           223         319           223         319	105           142         105           154         190           154         194           154         194           154         194           154         194           154         194           154         194           154         194           154         194           160         185           86         181           170         220           219         319           212         302           213         202           214         199           170         220           213         219           213         219           213         219           214         199           170         220           213         302           223         319           82         100           82         100           152         189	105           142         105           154         190           154         194           154         194           154         194           154         194           154         194           154         194           154         194           154         194           160         185           86         181           170         220           219         319           212         302           213         219           214         199           170         220           213         219           214         199           170         220           213         319           223         319           82         122           82         136           82         136           223         319           223         319           223         319           223         319           230         4540	105           142         105           154       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     203           165         235           195         235           195         235           196         184           197         241           197         241           197         241           219         319           210         182           86         181           81         182           82         139           223         319           223         319           223         319           82         138           82         138           82         138           82         138           84%         100%           59%         36%	105           142         105           154         194           1553         203           154         194           1553         203           154         194           1553         203           154         194           154         194           153         203           195         235           195         235           196         184           197         241           197         241           197         241           219         319           212         302           213         263           142         182           88         138           82         123           82         123           82         138           82         123           82         138           82         138           82         138           82         138           82         138           83         138           84%         100%           53%         563% <td>105           142         105           155         203           155         203           154         194           155         203           154         204           155         203           154         204           154         194           154         204           154         194           153         223           195         235           195         235           196         184           197         241           198         184           191         241           192         235           212         302           223         263           142         182           88         123           82         123           82         138           82         138           82         138           83         138           84%         100%           64%         100%           64%         100%           69%         100%           113         120%</td>	105           142         105           155         203           155         203           154         194           155         203           154         204           155         203           154         204           154         194           154         204           154         194           153         223           195         235           195         235           196         184           197         241           198         184           191         241           192         235           212         302           223         263           142         182           88         123           82         123           82         138           82         138           82         138           83         138           84%         100%           64%         100%           64%         100%           69%         100%           113         120%
130 140			120 100		139	139 130 184 40	139 139 184 40 202 50	139 184 202 50 195 50	139 130 184 40 202 50 195 50 194 40	139         130           184         40           202         50           195         50           124         40	139         130           184         40           202         50           195         50           221         40           236         40	139         130           139         130           184         40           202         50           195         50           221         40           236         40           195         40	139         130           184         40           202         50           195         50           194         40           221         40           236         40           195         85	139         130           184         40           202         50           195         50           195         50           195         40           221         40           236         40           195         85           175         85           170         85	139         130           139         130           184         40           202         50           195         50           195         40           236         40           175         85           170         85           195         95	139         130           184         40           202         60           195         50           195         50           195         40           221         40           236         40           175         85           170         85           139         95           200         45	139         130           184         40           202         50           195         50           195         50           195         40           221         40           195         85           175         85           199         95           200         45           220         45	139         130           184         40           202         60           195         50           195         40           221         40           236         40           175         85           199         95           200         45           200         45           200         50           200         50	139     130       184     40       202     60       195     50       195     40       236     40       175     85       176     85       199     95       200     45       201     45       202     50       250     50       250     50	139         130           184         40           195         50           194         40           195         40           195         40           175         85           170         85           200         95           200         45           200         45           200         50           350         100           309         90	139         130           184         40           195         50           194         40           195         40           195         40           195         40           195         40           195         40           175         85           170         85           170         85           200         45           200         45           200         50           309         90           305         40	139         130           139         130           184         40           195         50           195         40           221         40           195         40           195         40           195         40           195         40           195         40           195         40           236         40           170         85           199         95           200         50           300         90           305         40           185         40	139         130           139         130           184         40           195         50           194         40           195         40           221         40           195         40           195         40           195         40           195         40           195         40           236         40           199         95           200         85           200         90           350         100           305         40           146         50           305         40	139         130           184         40           195         50           194         40           195         50           196         40           221         40           195         85           175         85           170         85           170         85           236         40           199         95           200         85           199         95           200         85           200         90           305         40           185         40           185         40           1185         40           127         40	139         130           184         40           195         50           194         40           195         50           195         50           195         40           221         40           195         40           195         40           175         85           170         85           200         95           201         45   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     130           184         40           195         50           194         40           195         50           195         50           195         40           221         40           175         85           170         85           170         85           170         85           170         85           170         85           170         85           199         95           200         40           195         40           196         95           300         90           300         90           300         90           300         90           300         90           350         140           110         40           110         40           110         40	139         130           184         40           195         50           195         50           195         50           195         40           221         40           195         50           195         40           221         40           195         40           195         40           195         40 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		-		16	147 15		166 21																					4	101			
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Τ.	1:00	2:00	4:00	5:00	6:00	7:00	8.00	22.2	9:00	9:00	9:00 10:00 11:00	9:00 10:00 11:00 12:00	9:00 9:00 11:00 12:00 13:00	1000 12:00 12:00 13:00 14:00	12:00 13:00 12:00 13:00 15:00	9:00 10:00 11:00 12:00 13:00 15:00 15:00	9:00 11:00 11:00 12:00 13:00 15:00 15:00 15:00 17:00	9:00 11:00 11:00 12:00 13:00 15:00 15:00 15:00 13:00 15:00 15:00	9:00 10:00 11:00 13:00 14:00 15:00 15:00 13:00 13:00 13:00 13:00 13:00 13:00	9:00 10:00 11:00 12:00 13:000 13:000 13:000 13:000 13:0000000000	9:00 10:00 11:00 11:00 13:00 13:00 13:00 13:00 13:00 15:00 15:00 13:00 13:00 13:00 13:00 13:00 13:00 13:00 13:00 13:00 12:000 12:000 12:000 12:000 12:000 12:0000000000	9:00 10:00 11:00 11:00 12:00 13:00 13:00 15:00 15:00 15:00 15:00 15:00 20:00 22:00 22:00	9:00 10:00 11:00 12:00 13:00 14:00 15:00 15:00 15:00 15:00 15:00 15:00 15:00 15:00 12:00 20:00 22:00 23:00	9:00 11:00 11:00 12:00 13:00 14:00 15:00 15:00 15:00 15:00 15:00 15:00 15:00 15:00 20:00 21:00 2	9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 16:00 16:00 17:00 19:00 20:00 21:00 21:00 21:00 21:00	9:00 10:00 11:00 12:00 13:00 14:00 15:00 15:00 15:00 15:00 23:00 23:00 23:00 23:00 23:00 10 10 10 10 10 10 10 10 10	9.000 10.000 11:000 12:000 13:000 15:000 11:000 11:000 11:000 11:000 11:000 11:000 11:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 22:000 10:0000 10:00000 10:0000 10:0000 10:00000000	9:00 9:00 12:0	9:00 9:00 9:00 11:00			



Appendix 4-3

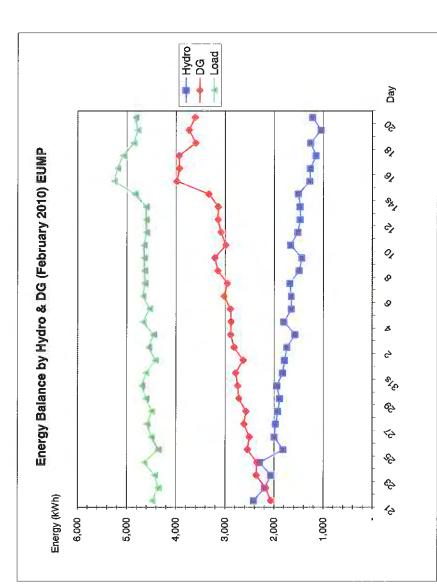
2009
August,
Report
Curve,
Load
Daily

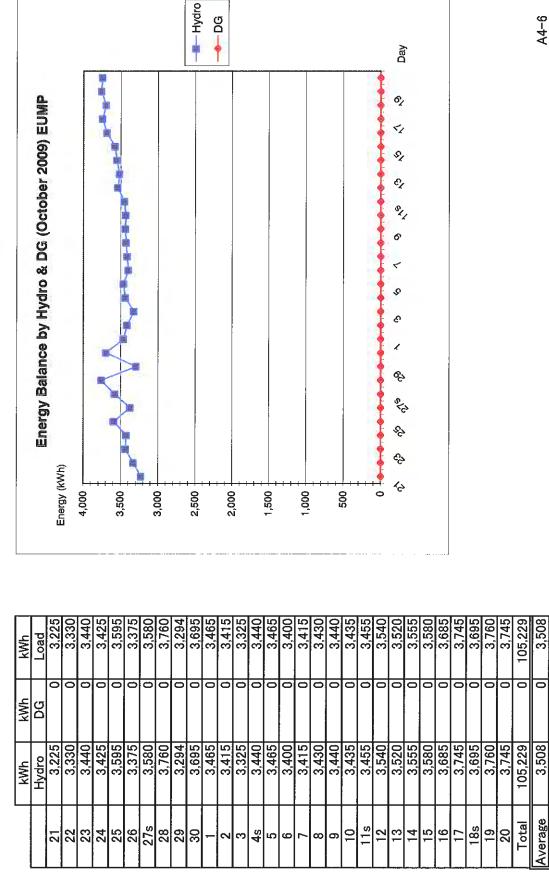
	8-Aug	_ug			9-Aug			10-Aug			11-Aug			12-Aug		-	13-Aug			14-Aug	
	Hydro D(		Total	Hydro	о D D	Total	Hydro	DQ	Total	Hydro	DG	Total	Hydro	DG	Total	Hydro	DG	Total	Hydro	DG	Total
1:00	06	0	06	110	0	110	85	0	85	60	ö	90	90	0	90	30	0	90	85.	0	85
2:00	90		90	105		105	85		85	80		80	90		90	- 06		06	80:		80
3:00	90		90	105		105	85		85	80		80	80		90	85		85	80		80
4:00	85		85	100		100	85		85	90		90	85		85	85.		85	80		80
5:00	06		06	120		120	95		95	95		95	- <u>3</u> 6		95	85		85	100		100
6:00	165		165	155		155	130		130	150	_	150	145		145	140		140	150		150
2:00	155		155	160		160	130		130	150		150	170		170	170		170	160		160
8:00	155		155	145		145	155		155	160		160	165		165	155		155	165		165
00:6	145		145	140		140	160		160	165		165	160		160	170		170	165		165
10:00	175		175	170		170	185		185	180		180	190		190	190		190	180		180
11:00	170		170	160		160	185		185	175		175	150		150	190		190	175	-	175
12:00	150		150	145		145	145		145	135		135	140		140	150		150	130		130
13:00	150		150	140		140	135		135	140		140	135		135	135		135	145		145
14:00	140		140	140		140	145		145	145		145	135		135	145		145	170		170
15:00	130	·	130	150		150	160		160	175		175	150		150	155		155	165		165
16:00	155		155	150		150	165		165	175		175	155		155	160		160	190		190
17:00	165		165	160		160	170		170	175		175	175		175	180		180	170		170
18:00			190	220		220	200		200	215		215	190		190	180		180	190.		190
19:00	285		285	245	-	245	270		270	260		260	270		270	275.		275	275.		275
20:00	280.		280	245		245	235		235	258		258	270		270	260		260	270		270
21:00	230		230	200		200	200		200	200		200	215		215	200		200	210		210
22:00	175		175	130		130	120		120	145		145	170		170	155		155	165		165
23:00	130		130	105		105	30		06	115		115	145		145	100		100	100		100
24:00	95		95	06		6	06		6	100		100	06		06	06		80	95		95
Maximum	285	0	285	245	0	245	270	ō	270	260	0	260	270	ō	270	275	0	275	275	ö	275
Minimum	85	0	85	90	0	90	85	ö	85	80	0	80	85	0	85	85	0	85	80	0	80
Average	154	0	154	150	0	150	146:	o	146	152	0	152	153	ō	153	151	0	151	154	0	154
Energy	3685	0	3685	3590	0	3590	3505	0	3505	3653	0	3653	3670	0	3670	3635	0	3635	3695	0	3695
	%001	%0	100%	100%	%0	100%	100%	%0	100%	100%	%0	100%	100%	0%	100%	100%	%0	100%	100%	0%	100%
Daily Load Factor			54%			61%			54%			59%			57%			55%	_		56%
User No			1130			1130			1131			1131			1132			1133			1133
Monthly Assumed /C			98			95			93			97			97			96			80 00
pnthly Assumed Total			70,439			68,623			66,939			69,766	_		70,028			69,299			70,443



2nd-week







Energy Consumption for Mondul Kiri Power System October, 2009

A4-6

Average

Appendix 4-4

# FAULT RECORD FOR MONDUL KIRI POWER STATION, EUMP (Urgent Report)

n     a.m 325       n     Toral:     0.Fbarris       d     Toral:     0.Fbarris       1     Toral:     0.Fbarris       1     Durput:     40     bw       1     Durput:     40     bw       1     Durput:     60     kW       1     Durput:     60     kW       1     Durput:     60     kW       1     Head tank water level low     Duervoltage     f       1     Mater pressure low (2)     Duervoltage     f       Mater pressure low (2)     M	Cate	1/60/2009			
Route fastion         Original           Dower station         Torolling         Original           Out Put (kW)         Output: 60 kW         Original           Status         Dutput: 60 kW         Original           Kind of Fault         Head tank water level low         Output: 60 kW         Output: 60 kW           Kind of Fault         Head tank water level low         Output: 60 kW         Output: 60 kW<	Fault time	a.m.3.25			
Poweet System Load         Total:         60         600		0'Pomis			
Out Put (kw)         Ordenie	Power System Load	. 80		r i i i i i i i i i i i i i i i i i i i	
Currents:         Currents:         40         Jow         Output:         60         Jow         Output:         60         Jow         Output:         60         Jow	Out Put (kW)	QMoleng	0'Romis	D D	
Status         Biadeout the power system for 16 minutes           Kind of Fault         Head tank water level low         16 minutes         62-2 C           Fault Indicators         Water pressure low (2)         Overrotrage         62-2 C           Rausons why         At 3:26, Water level alaming. and operator just stopped the turbit         62-2 C           Rausons why         At 3:26, Water level alaming. and operator just stopped the turbit         62-2 C           Rausons why         At 3:26, Water level alaming. and operator just stopped the turbit         62-2 C           Reasons why         At 3:26, Water level alaming. and operator just stopped the turbit         62-2 C           Reasons why         At 3:26, Water level alaming.         62-2 C           Reasons why         At 3:26, Water level alaming.         62-2 C           Countermeasure         0.Permis station         62-2 C           Countermeasure         3			60		Faile
Kind of Fault         Head tank water level low         Overotage         62-0           Rau h light         Water level low         Overotage         62-0           Ras son s why         M 3 :26. Water level allaming and operator just stopped frequency due to the auth         62-0           Ras son s why         M 3 :26. Water level allaming and operator just stopped frequency due to the auth         62-0           Reason s why         M 3 :26. Water level allaming and operator just stopped frequency due to the auth         62-0           Reason s why         M 3 :26. Water level allaming and operator just stop of         62-0           Decorery time         Orbanis station.         01-0           Recovery time         a.m 3 :46         10-0           Recovery time         a.m 3 :46         10-0           Decorery time         a.m 3 :46         10-0           Recover         Normal starting turbine.         10-0           Operator name         Normal starting turbine.         10-0           Operator name         Normal starting turbine.         10-0           Operator name         Normal starting turbine.         10-0           Approved by         Normal starting turbine.         10-0           Approved by         Normal starting turbine.         10-0           Approved by	Status	Blackout the power system fo	r 16 minutes		
Fault Indicators     Water pressure low [2]     Overrolege     62-2       Real son s why     At 3.25, Weter level alarming, and operator just stopped the turbling also stopped by low frequency due to the stop of OFFontis station.     62-2       Real son s why     Then O'Meng also stopped by low frequency due to the stop of OFFontis station.     62-2       Countermeas sure     Then O'Meng also stopped by low frequency due to the stop of OFFontis station.     62-2       Countermeas sure     a.m 3x46     Incention of OFFontis station.     62-2       Mercines sure     a.m 3x46     Incention of OFFontis station.     62-2       Countermeas sure     a.m 3x46     Incention of OFFontis station.     62-2       Density time     a.m 3x46     Incention of OFFontis station.     60-2       Monteal recover     Normal stating turbine.     Incention of OFFontien of OFFont	Kind of Fault	tank Y			
Reasons why         At 3:26, Water level alaming, and operator just stopped the turbit           Then O Mang also stopped by low frequency due to the stop of O'Ponis station.         Then O Mang also stopped by low frequency due to the stop of O'Ponis station.           Countermeasure         a.m 3xi6         a.m 3xi6         a.m 3xi6         a.m 3xi6         a.m 3xi6           Countermeasure         a.m 3xi6         Confirmed by         a.m 3xi6         a.m 3xi6<	Fautt Indicators	(Water pressure low (2)	Overvoltage	62-2 CB trip	
Then O'Meng also stopped by low frequency due to the stop of O'Romis stadon.       Countermee sure     O'Romis stadon.       Recovery time     a.m 3/46       Pornal recover     Normal starting turbine.       Normal recover     Normal starting turbine.       Approved by     Confirmed by       Approved by     Confirmed by       Approved by     Confirmed by       More a ly recover     Normal starting turbine.       Normal recover     Normal starting turbine.       Approved by     Confirmed by       Apowed </td <td>Rea son s why</td> <td>At 3:25, Water level alaming</td> <td>stopped</td> <td>the turbine .</td> <td></td>	Rea son s why	At 3:25, Water level alaming	stopped	the turbine .	
Countermeasure     a.m 346       Reovery time     a.m 346       Temporaly recover     a.m 346       Temporaly recover     a.m 346       Temporaly recover     a.m 346       Temporaly recover     a.m 346       Derator resover     Normal starting turbine.       Operator name     Confirmed by       Approved by     Confirmed by       Nete:     Nore:       Approved by     Confirmed by       Nete:     Nore:       Approved by     Confirmed by       Operator name     Nore:       Approved by     Nore: <td< td=""><td></td><td>Then O'Meng also stopped b O'Fomis station.</td><td>le to the</td><td>stop of</td><td></td></td<>		Then O'Meng also stopped b O'Fomis station.	le to the	stop of	
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Temporal y recover     Normal starting turbine.       Normal recover     Nomal starting turbine.       Operator name     Confirmed by       Approved by     Note:       Note:     Note:       Note:     Note:       Approved the alarm of water level, the operator shall check the head tank and of the system did not blackout.       So that the system did not blackout.     Definition to operator shall chr countermeasure.					
Normal recover         Nomal starting turbine.           Operator name         Dependent           Operator name         Confirmed by           Approved by         Confirmed by           Approver         Note:           Note:         Note:           Mote:         Note:           Note:         Note:           Operator for advisors team         Note:           Operator for advisors team         Note:           Operator for advisors team         Note:           Nhen occurred the alarm of water level, the operator shall check the head tank and out put of OR must decrease 40 or 30kW, and OM must increase 40 to 60kW short           So that the system did not blackout:         Interventor rout the operator rout the counterm	Tempo rafy recover				
Operator name     Confirmed by       Approved by     Confirmed by       Approved by     Confirmed by       Approved by     Note:       Note:     Note:       Out put of OR must decrease 40 or 30kW, and O'M must increase 40 to 60kW short       So that the system did not blackout:     Increase 40 to 60kW short       The operator must know the Alam is only information to operators and for counterm	Normal recorder	Abreat to a second design of the second design of t	tersteeping		
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Approved by       Confirmed by         Note:       Note:         Note:       Note:         Note:       Note:         Note:       Note:         Commemts by JICA advisors team       Note:         Commemts by JICA advisors team       Note:         Mhen occurred the alarm of writer level, the operator shall check the head tank and out put of OTR must decrease 40 or 30kW, and OTM must increase 40 to 60kW shortly:         So that the system did not blackout.       The operator must know the Alarm is only information to operators and for countermeasure.					
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	The operator must I	w the Alarm is only information	to operators and for counte	The BSUDE .	

u pi		EVENT	EVENT RECORDS FOR MONDUL KIRI POWER STATION	OWER STATION	a and the second s
	Station Name:	Name:	Diesel		
No. Date	Time (from)	Time (to)	Event Records	Recover/ Countermeasure	Operator Name
1 6/03/09	12:00		12:50 (Peak toad 150 kw)	150 kw - 180 kw	Yeb Thav
			increasing fast from 10kw to 30kw		Mr. Theng sitha
2 17/03/09	12:00		13:30 peak load 140kw		
			increasing fast from 5kw to 10kw	140 kw	
3 18/03/09	12:00		13:00 (peak toad: 150fw)	150 kw	Mr. Theng sitha
			ンフラ		
			increasing fast from 5kw to 10kw		
4 19/03/09	11:15		13:30 (peak load 160kw)	. 160 kw	Yeb Thav
			increasing fast from 5kw to 10kw		
5 3/5/2009	8:30		9:55 Ground overvoltage	156 Kw	Mr. som dara
6 6/5/2009	5:10		5:30 Ground overvoltage	No operation	Som dara
7 18/05/09	10:10		10:35 Ground overvoltage	No operation	som dara

	SCHEDULED UULAGE	JUULAGE REPUBL	
DATEOFWORK		24- Feb-06	
WORKOUTUME		his balladon of 10kVA. Transform at to O R-068	
Phone		O R.OSS	
Purposa		To supply electricity to a new customer	
Responsible person a tithe site		Mr. Neda, TOENEO	
Deenergiaed MV Line		Prom C/ Romis P.G	
	0 F	Hoapthal SrS F1	
	-	PUTO1, PUTO2, PUTO3	
Date of no tifes tion"		ø	
Method of notification		i ou disposition	
2	PROCEDURE	Outside PMT TIME	
3		Scheduled	Result
1 O'Romis Púli MOB	LL Q	E	
1		13.00	13,006
C Hoghtel S C P2	E zatbing	P. M.TO 1, P. MT02, P. MT03.	
4 08-085		P M TO 1	
00-000 000-000	E athra 2	P M TO1, P M TO2, P M TO3	
6 08-087	Check voltage	PUTO1, PUTO2, PUTO3	
i he i	Eathing		
80 7-088 80	106.VM. TR. Installation		
9 OR-088	Meter Box histelietion	P W TO1, P W TO2, P W TO3	
10 08-085	Detech Berthing Tool	P 61 101.	
÷	Detech Earthing Tool	PUTO1, PUTO2, PUTO3	
	6		
13. Hospital Srift P2	20		1670
14 OR-088	Check the New Equipment		
10 08-088	Check volege		
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		PMT03	8 8 8

# SCHEDULED OUTAGE REPORT

\* EAC Standard : At least 2 days before outside in case or outside of duration 1 hour or more \*\* EAC Standard : 12 hours or leas

Appendix 4-5

# **Summary Report for Periodic Inspection**

on

# **Project for Operation and Maintenance**

# of the Rural Electrification on

Micro-hydropower in Mondul Kiri

June, 2009

# **JICA Study Team**

Electric Power Development Co., Ltd. (J-Power) and Chugoku Electric Power Co., Inc.(Energia)

# 1. Introduction

We would like to report you that the periodic inspection for Hydropower stations (O'Moleng and O'Romis) and Diesel power station have been carried out on May 31 to June 13, 2009 by the staff of EUMP under the supervising of Japanese engineers. The summary of the inspection is described as follows.

# 2. Activities of the Schedule

- 2.1 Inspection of Hydropower station
  - 1) Pre meeting for inspection: 2009/05/30
  - 2) Periodic inspection for O'Moleng P.S : 2009/05/31 to 2009/06/04
  - 3) Periodic inspection for O'Romis P.S : 2009/06/04 to 2009/06/05
  - 4) Post meeting for inspection: 2009/06/06

# 2.2 Inspection of Diesel power station

- 1) Pre meeting for inspection: 2009/06/09
- 2) Periodic inspection for Diesel P.S : 2009/06/10 to 2009/06/12
- 3) Post meeting for inspection : 2009/06/13

# 2.3 On-the-job training for EUMP staff

- 1) On-the-job training for Hydropower staff: 2009/05/31 to 2009/06/05
- 2) On-the-job training for Diesel power staff : 2009/06/10 to 2009/06/12

# 3. The summary of the inspection results

# 3.1 Hydropower station

1) Check results : Good

- (1) Turbine/Generator appearance inspection
- (2) Runner and Turbine casing inside check and Disassembly of the front cover
- (3) Inlet valve appearance inspection
- (4) Speed changer appearance inspection
- (5) G/V servomotor appearance inspection
- (6) Generator panel appearance inspection
- (7) Bearing check

The detailed inspection results should be referred "Inspection Report of Hydropower Station" as attached.

3.2 Diesel power station

1) Check results : Good

(1) Check and clean for Four (4) kinds of Fuel oil filters

- (2) Check and clean for Four (4) kind of Lub. oil filters
- (3) Check the Air compressor.
- (4) Check the Cam room and Crank room
- (5) Fuel nozzle injection testing
- (6) Check the Lubricating oil for Engine, Generator and Air compressor.

The detailed inspection results should be referred "Inspection Report of Diesel Power Station" as attached.

# 4. Training for EUMP Staff and Operators

4.1 Hydropower generating facilities

On the Job Training was carried out by the Japanese supervisor (Tanaka Suiryoku) and JICA Project team as follows.

- (1) Assembly and disassembly method for turbine covers, inspection cover
- (2) Assembly and disassembly method for turbine bearing covers
- (3) Inspection method for runner, inside of turbine
- (4) Inspection method for turbine bearing
- (5) Changing of turbine bearing grease
- (6) Grease up for turbine and generator
- (7) Inspection of dummy load heater unit
- (8) Inspection of inlet valve, servomotor and speed changer unit
- (9) Inspection of control panel and data recording
- (10)Confirmation of operation method

# 4.2 Diesel power generating facilities

On the Job Training was carried out by the Japanese supervisor (Daihatsu diesel) and JICA Project team as follows.

(1) In accordance with Instruction manual of Air compressor (Hasegawa Iron Works Co.),

action was taken below.

- (a) Opened cylinder-head and extract the parts of low pressure valves.
- (b) Cleaned low pressure suction valve.
- (c) Cleaned low pressure delivery valve and face up seating.
- (d) Confirmed running condition. Result: good in order.
- (2) Adjustment of Valve clearance
  - (a) Fly-wheel point to TOP position, with the marked line on the fuel injection pump at the up position.
  - (b) Adjust T-shaped yoke to 0 position, and tight rock nut using by Vise.
  - (c) Assemble rocker arm, adjust the valve clearance.

Intake valve clearance: 0.3mm

Exhaust valve clearance: 0.4mm

(3) Fuel Nozzle (As attached Sect 7-sheet 3, 4).

Nozzle test using by special tools and pressure test pump were carried out.

A way of judgment for testing nozzle was instructed to operators.

(4) Daily operation and maintenance.

In accordance with [O&M Manual for Diesel Engine], following items were instructed to operators.

(a) Before running for Diesel engine.

It was especially instructed to drain out condensation from the high air pressure line at every morning to avoid the rust.

- (b) Information on safety operation for Diesel engine.
- (c) Manual lubrication intervals.
- (5) Assembly and disassembly method for turbine covers, inspection cover

### **Observation:**

- 1) EUMP staff carried out the OJT together with supervisor according to all training items.
- 2) Inspection method and disassembly/assembly method has been transferred during periodic inspection.
- 3) The next periodic inspection has to be carried out after 6 months operation for O'Moleng, O'Romis and Diesel power stations.
- 4) Necessary drawing and procedure for periodic inspection was submitted.

# 5. Comments on the O & M management

5.1 The 3 power stations, EUMP have been contributed to supply the power continuously into Mondul Kiri power system in normal conditions since 2008.Otober 21.

5.2 Since the running hours are; O'Moleng 4,042 hours, O'Romis 5,227 hours and Diesel 1,755 hours, respectively by the end of May 2009 from initial operation on October 21, 2008. It means that continuous operation of the power station would be stressed to the rotating machines and will be required timely countermeasure, so that we have a plan to carry out the periodical inspection as well as on-the-job training every 6 months under the supervising of Japanese engineers and JICA project team.

5.3 As a result of inspection, there is no problem with any defect or malfunction such as machine trouble or electrical failure, so on.

5.4 It is good managed that the spare parts have been registered with Inventory book by the EUMP staff..

5.5 The next periodic inspection  $(2^{nd})$  is scheduled in November /December 2009.

# Attachment:

1) Photo of inspection and training

2) Inspection report for hydropower generating facility and inspection procedure

3) Inspection report for diesel power generating facility and inspection procedure

-End-

# Periodic Inspection for O'Moleng Power Station, June 2009



Disassembly of turbine cover

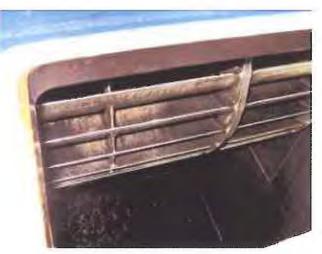


Inspection of turbine runner



Grease up into generator bearings

# Periodic Inspection for O'Romis Power Station, June 2009



Turbine runner inside



Change of bearing grease



Meeting before/after inspection

# Periodic Inspection for Diesel Power Station, June 2009



Inspection of inside engine body and crank shaft



Timing adjustment by turning gear



Disassembly inspection of air compressor



On-the-Job Training



**On-the-Job Training** 



Meeting before inspection

**Appendix 4-6** 

# Summary Report for Periodic Inspection (2<sup>nd</sup>)

on

# **Project for Operation and Maintenance**

# of the Rural Electrification on

# Micro-hydropower in Mondul Kiri

December, 2009

# **JICA Study Team**

Electric Power Development Co., Ltd. (J-Power) and Chugoku Electric Power Co., Inc.(Energia)

# 1. Introduction

We would like to report you that the periodic inspection for Hydropower stations (O'Moleng and O'Romis) and Diesel power station have been carried out on November 16 to December 2, 2009 by the staff of EUMP under the supervising of Japanese engineers. The summary of the inspection is described as follows.

# 2. Activities of the Schedule

# 2.1 Inspection of Hydropower station

- 1) Pre meeting for inspection: 2009/11/27
- 2) Periodic inspection for O'Romis P.S : 2009/11/27 to 2009/11/30
- 3) Periodic inspection for O'Moleng P.S: 2009/12/01 to 2009/12/02
- 4) Post meeting for inspection : 2009/12/03

# 2.2 Inspection of Diesel power station

- 1) Pre meeting for inspection: 2009/11/16
- 2) Periodic inspection for Diesel P.S : 2009/11/16 to 2009/11/22
- 3) Post meeting for inspection : 2009/11/23

### 2.3 On-the-job training for EUMP staff

- 1) On-the-job training for Hydropower staff: 2009/11/27 to 2009/12/02
- 2) On-the-job training for Diesel power staff : 2009/11/16 to 2009/11/22

# 3. The summary of the inspection results

# 3.1 Hydropower station

1) Check results : Good

- (1) Turbine/Generator appearance inspection
- (2) Disassembly of Inspection cover and Runner and Turbine inside check
- (3) Inlet valve appearance inspection
- (4) Speed changer appearance inspection
- (5) G/V servomotor appearance inspection
- (6) Generator panel appearance inspection
- (7) Bearing check and grease up for turbine and generator

The detailed "Inspection Report of Hydropower Station" will be submitted later on.

3.2 Diesel power station

1) Check results : Good

- (1) Check and clean for Four (4) kinds of Fuel oil filters
- (2) Check and clean for Four (4) kind of Lub. oil filters
- (3) Check the Air compressor.
- (4) Check the Cam room and Crank room
- (5) Fuel nozzle injection testing
- (6) Check the Lubricating oil for Engine, Generator and Air compressor.

The detailed "Inspection Report of Diesel Power Station" will be submitted later on.

### 4. Training for EUMP Staff and Operators

4.1 Hydropower generating facilities

On the Job Training was carried out by the Japanese supervisor (Tanaka Suiryoku) and JICA Project team as follows.

- (1) Assembly and disassembly method for turbine inspection cover
- (2) Assembly and disassembly method for ground packing
- (3) Inspection method for runner, inside of turbine
- (4) Grease up for turbine (50 times) and generator (100 times) by the grease gun
- (5) Inspection of dummy load heater unit
- (6) Inspection of control panel and data recording
- (7) Lecture of trouble shooting
- (8) Lecture of Sequence diagram and drawings
- 4.2 Diesel power generating facilities

On the Job Training was carried out by the Japanese supervisor (Daihatsu diesel) and JICA Project team as follows.

(1) In accordance with Instruction manual of Air compressor (Hasegawa Iron Works Co.), action was taken below.

- (a) Opened cylinder-head and extract the parts of low pressure valves.
- (b) Cleaned low pressure suction valve.
- (c) Cleaned low pressure delivery valve and face up seating.
- (d) Confirmed running condition. Result: good in order.
- (2) Adjustment of Valve clearance
  - (a) Fly-wheel point to TOP position, with the marked line on the fuel injection pump at the up position.
  - (b) Adjust T-shaped yoke to 0 position, and tight rock nut using by Vise.
  - (c) Assemble rocker arm, adjust the valve clearance.

Intake valve clearance: 0.3mm

Exhaust valve clearance: 0.4mm

(3) Fuel Nozzle

Nozzle test using by special tools and pressure test pump were carried out.

A way of judgment for testing nozzle was instructed to operators.

(4) Daily operation and maintenance.

In accordance with [O&M Manual for Diesel Engine], following items were instructed to operators.

(a) Before running for Diesel engine.

It was especially instructed to drain out condensation from the high air pressure line at every morning to avoid the rust.

- (b) Information on safety operation for Diesel engine.
- (c) Manual lubrication intervals.
- (5) Assembly and disassembly method for turbine covers, inspection cover
- (6) Lecture of trouble shooting
- (7) Lecture of Sequence diagram and drawings

# **Observation:**

- 1) EUMP staff carried out the OJT together with supervisor according to all training items.
- Inspection method and disassembly/assembly method has been transferred during periodic inspection.
- 3) We carried out the lecture of sequence diagram how to read and understanding for electrical practice by the Instruction and maintenance manual.
- 4) The next periodic inspection has to be carried out after 6 months operation for O'Moleng, O'Romis and Diesel power stations.
- 5) Necessary drawing and procedure for periodic inspection was submitted.

# 5. Comments on the O & M management

5.1 The 3 power stations, EUMP have been contributed to supply the power continuously into Mondul Kiri power system in normal conditions up to now without troubel.

5.2 Since the running hours are; O'Moleng 8,211 hours (2009/11/26), O'Romis 9,302 hours (2009/11/29) and Diesel 1,799 hours (2009/11/16), respectively from initial operation on October 21, 2008.

It means that continuous operation of the power station would be stressed to the rotating machines and will be required timely countermeasure, so that we have a plan to carry out the periodical inspection as well as on-the-job training every 6 months under the supervising of Japanese engineers and JICA project team.

5.3 As a result of inspection, there is no problem with any defect or malfunction such as machine trouble or electrical failure, so on, even if there would occur the minor trouble in the daily operation.

5.4 It is good managed that the spare parts have been registered with Inventory book by the EUMP staff., and is under preparation of spare parts slips for all parts.

5.5 We instructed the maintenance management to DG staff of EUMP as follows.

- 1) Drain out moisture from high pressure air line at every morning,
- 2) Preparation of lubrication oil by oil list as soon as possible,
- 3) Management of running data by binding book

5.5 The next periodic inspection (3rd.) is scheduled in May /June 2010.

# Attachment:

- 1) Photo of inspection and training
- 2) Inspection schedule

-End-

# Periodic Inspection (2<sup>nd</sup>) of O'Romis Power Station, November 27 to 30, 2009



Inspection of inside of Turbine Runner



Inspection of inside of Turbine Runner



Disassembly of Ground Packing Cover for Turbine







Used ground packing and Muddy condition

Grease up generator bearings

Inspection of inside Speed gear condition



Dummy Load Governor



Meeting	before/after
inspection	

Periodic Inspection (2<sup>nd</sup>) of O'Moleng Power Station, December 1 to 2, 2009



Inspection of Bearing Packing for Turbine



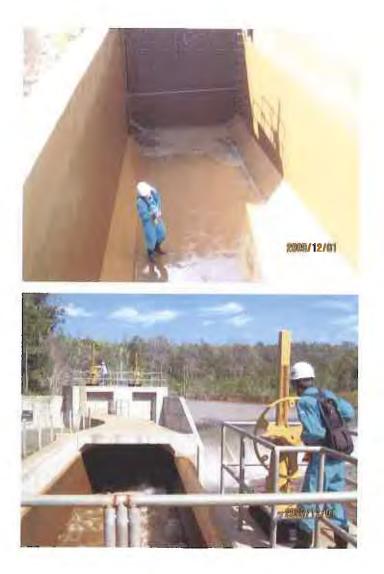
Measuring of Gaps on Bearing Packing for Turbine



Inspection of Intake and Sedimentation Basin (Closing the intake gate) at O'Moleng Intake Dam



Muddy condition of Sedimentation and Cleaning at basin



Checking of concrete face on sedimentation

Water filling after cleaning of sedimentation basin

Periodic Inspection for Diesel Power Station, November 16 to 22, 2009



Disassembly of Engine Head and cover



Inspection of inside Engine



Disassembly of Engine head

On-the-job Training for Spare parts