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RURAL ELECTRIFICATION PROJECTS

INDONESIA



NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION

JAKARTA, INDONESIA

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NRECA TEAM REPORT

P D O

INDONESIA

(MAY THROUGH DECEMBER, 1983)

R E P O R T

NRECA INDONESIAN TEAM REPORT

UNITED STATES AGENCY FOR
INTERNATIONAL DEVELOPMENT

Contract No. AID/ASIA C1347

Loan No. 497-T-052

IMPLEMENTING AGENCIES:

DIREKTORAT JENDERAL KOPERASI
Directorate General of Cooperatives

PERUSAHAAN UMUM LISTRIK NEGARA
National Electric Power Agency

CONSULTANTS:

National Rural Electric Cooperative Association
Management, Organization and Training

C.T. Main International, Inc.
Architect and Engineering

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DESCRIPTION AND OBJECTIVES OF PROJECT (DGC)

The Government of Indonesia (GOI) has initiated a demonstration rural Electrification program which is planned to provide areawide electric power distribution in ten specified areas within the next four or five years. The objective of this program is to demonstrate conclusively that reliable electric service and the social and economic benefits that accrue therefrom can be made available to the very poor people at a price they are able to pay.

Three of the electrical distribution systems will be located on separate islands outside of Java and will be implemented through rural electric cooperatives organized by the Directorate General of Cooperatives (DGC). The National Electric Power Agency (PLN) operates an extensive electric system in Central Java, and is responsible for constructing, operating and maintaining the seven systems located on that island.

The U.S. Agency for International Development (USAID) is assisting the GOI in this demonstration by making available AID grant funds to provide organizational, management and technical advisory services. The National Rural Electric Cooperative Association (NRECA), through its International Programs Division, was contracted by AID to provide these services because of its demonstrated capability and experience in assisting rural electric cooperatives in developing nations throughout the world.

NRECA is working with the two separate agencies charged with implementing the project. Because of the different organization, management, training and experience of these two agencies, the services provided by NRECA differ in scope and location. The services for DGC include complete assistance in the organization of the individual cooperatives; including staffing patterns, job descriptions, cost accounting, O&M methods, training, planning, policies and procedures, housewiring and etc. The NRECA services and progress to date for the seven systems in Central Java are the subject of a separate report.

The three outer island projects are located on Central Lampung (South Sumatra), East Lombok, and Luwu (South Sulawesi) and are to be constructed and developed

by the member-consumers themselves through the organization of rural electric cooperatives. Each cooperative will construct, own operate a diesel generating plant to provide power for the distribution system. (The Canadian Government is assisting with the generating project). A special agency known as the Project Development Office (PDO) under the Directorate General for Cooperatives (DGC) is the GOI implementing agency for the Cooperatives.

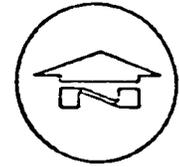
The personnel which NRECA is furnishing for the performance of this contract are as follows :

<u>NAME</u>	<u>TITLE</u>	<u>ADDRESS</u>
Ray Shoff	Team Leader/ Administrative/ Finance Officer	Ratu Plaza Apartment #1002 Jl. Jenderal Sudirman PH : 712209 ext. 2015
Louie Sansing	RE Project Advisor & PDO/Cooperative Training Coordinator	Jl. Galuh I/4A Kebayoran Baru PH : 735473
** Sam Adkins	PLN Project Advisor, Central Java, and REC Project Advisor	c/o C.T. Main Inc. Box. 26 Semarang PH : 024-312701
John DeFoor	* REC Project Advisor, Luwu	KLP Samabotuna Desa Minna - Bone Bone Kabupaten Luwu South Sulawesi

* This position vacated in early-February, 1983 when Mr. DeFoor departed Indonesia.

** This position vacated July 31, 1983

RURAL ELECTRIFICATION COOPERATIVE PROJECT SITES



GENERAL

The NRECA-team was reduced in numbers by 50 % in 1983. Mr. John DeFoor, Advisor at the Luwu Rural Electric Cooperative (REC), left Indonesia in February. Mr. Sam Adkins, Advisor for the PLN projects in Central Java and for the REC's, departed Indonesia in July.

NRECA-team Training Officer Louie Sansing is scheduled to complete his duties in Indonesia at the end of March 1984. The Team Leader/Administrative-Finance Officer, Ray Shoff, who is sharing his time between the PDO-RE/REC's and PLN, may complete his duties by the end of September, 1984.

As a result of staff reduction, NRECA's reports to USAID have been less frequent. It is intended, therefore, that this report, for the period ending December 31st, 1983, will highlight 1983 team activities, and include a year-end status report of PDO-RE and the REC's.

PDO-RE ACTIVITIES

Major activities of the NRECA-team at the Project Development Office for Rural Electrification are listed as follows:

Power supply ----- the very heart of the REC's as a business enterprise is the product to be sold, electric energy. In early 1983, it was determined that loan funds from the Canadian Government would not be used for procurement of power-production equipment as originally visualized. Therefore, at the request of PDO-RE, NRECA became involved in studies and recommendations for power supply alternatives.

The initial step was preparation of lists of engine-generator parts needed to upgrade the U.S. excess property generators now in-place at the three REC's.

Repair parts for the seventeen gen-sets, total nameplate rating of 1,600 KW's, were ordered through U.S. dollar loan procurement with delivery expected in early 1984.

The second step was initiating action to procure additional interim generation to meet requirements until generation from replacement funding is available. Again, U.S. dollar loan funds were obligated for generation procurement with orders placed for one 400-KW gen-set, and associated transformation equipment, for each REC. Delivery to the REC's is expected by February, 1984.

A third step is in process as C.T. Main is preparing an IFB for 1100 KW's of additional generation for the Lombok REC. The main distribution system construction is in progress at Lombok and additional generation will be needed by mid 1984.

Generation requirements for future years were re-studied, and recommendations made as to total KW capacity and unit sizes. At year-end, thanks to support of USAID/J, a funding commitment of five million, four hundred thousand dollars (\$5,400,000) for generation was received from GOI. (The source of funds relates to the U.S. Government's PL480 program in Indonesia).

The funds committed will be sufficient to procure approximately ten thousand (10,000) kilowatts of additional generation, three projects total, with initial delivery expected to begin in the third quarter of 1984.

Distribution-system material/equipment ----- NRECA, in coordination with PDO-RE and C.T. Main staff, identified and priced items procured for the REC's. Tabulation forms were devised for the multi-million dollar procurement which listed: the quantity of each item ordered; actual quantity received per receiving report; U.S. dollar unit price; rupiah price conversion; and per price extensions.

These tabulations were completed at the REC's during field trips made by NRECA personnel. They served as the source of information for REC stock record card preparation, posting, and general ledger accounting entries.

Headquarters furnishings ----- assistance was rendered to PDO-RE in bid solicitation for furniture at the three REC headquarters sites. Recommendations were made as to quantity and quality, and adjusted to budget limitations. At the end of December, furniture was on order, or in the delivery process, for the Lombok and Lampung REC's. Procurement for the Luwu REC is in process.

Accounting/reporting ----- the PDO-RE accounting department suffered serious personnel changes in 1983. NRECA assisted in screening and testing applicants to fill the vacancies. At year-end, one important accounting position was filled and on-the-job training was in process.

Vast improvement was made in REC monthly financial and statistical report contents and continuity. As a result, PDO-RE/NRECA monitoring process was more effective. Report information was placed in month-by-month comparison format and circulated within PDO-RE. (Included in later sections of this report)

Assistance was received, in the financial field, from the Volunteer Development Corp of the U.S.A. A VDC specialist was in Indonesia from August to November assisting in REC short-range financial forecasting.

Retail rate structures (tarif) ----- NRECA provided considerable input on retail rate studies, preparing base-data from REC past operations, and projections for future years. This detailed information was requested by rate specialists, Director General of Power's office.

The end-result of studies was that, in the third quarter of 1983, retail rate increases were made at the Lombok and Luwu REC's. At year-end, the Lampung REC was preparing to announce their revised retail rates.

Cooperative Development, REC Organizational Structures ----- in earlier years, NRECA recommended, revised, and re-recommended REC organizational structure's, based on the need at particular periods of REC growth. In 1983, as consumer-connection levels were projected with (what is believed to be) greater accuracy, REC staffing patterns were again reviewed by NRECA/PDO-RE staff. Position descriptions were updated as experience dictated the necessity.

TRAINING ACTIVITIES

On-the-job training (OJT) was continually conducted at the three (3) Rural Electric Cooperative Projects by the NRECA Advisory Team during field visits. The OJT include activities within the Office Services, Member Services, Operations and Power Generation Departments/Sections.

At the request of the NRECA Advisory Team, PDO appointed three (3) of its staff members to assist and guide the REC's warehouse personnel in warehouse management. Each PDO staff member was assigned an individual REC as their responsibility. A two (2) day training course on Warehouse Management, covering each activity, was conducted by the NRECA Advisory Team, assisted by the PDO Training Officer.

A Warehouse Management Manual was prepared by the NRECA Advisory Team, containing all guidelines, procedures and information covering warehouse activities. The manual is in use at the REC's and was provided to each of the PDO appointed staff members.

OVERSEAS TRAINING/OBSERVATION TOUR

Ten (10) staff members from the three (3) REC's and the Project Development Office for Rural Electrification (PDO-RE), participated in an Overseas Training/Observation Tour of the Rural Electrification Program in the Philippines.

The participants were; the Member Services and Operations Department Heads from each of the three (3) REC's; the Acting Manager of Samabotuna REC in Luwu; and three (3) staff members from PDO-RE, who served as participants and, Interpreters/Translators. The group was accompanied by one (1) member of the NRECA Advisory Team/Jakarta who provided coordination and program continuity.

The group departed Jakarta on 16 November 1983, for the Philippines and returned to Jakarta on 27 November 1983.

THE FOLLOWING IS THE ITINERARY OF GROUP I

Monday, Tuesday, November 14, 15, 1983

Preparations for overseas travel and briefing sessions conducted by NRECA/PDO-RE staff

Wednesday, November 16th

Depart Jakarta for Manila and was met by personnel from the Rural Electrification Training Office (RETO) of the National Electrification Administration (NEA). After a short briefing by RETO, the participants were assigned hotel accommodations. RETO staff members and NRECA's representative were in charge of the Training/Observation Tour and accompanied the group throughout the tour.

Thursday, November 17th

At the offices of NEA, the group was welcomed and received briefings by Department/Section Heads on the activities and functions of; Coop Development, Member Services and Training; the Dendro Thermal and Mini-Hydro programs. Outlined in the briefings was NEA's support and assistance to the Rural Electric Cooperatives.

Friday, November 18th

A briefing by the Deputy Administrator for Finance and Administration, followed by briefings in each of the Sections within the Finance Department of NEA.

In the afternoon, the Administrator of NEA welcomed the group. This was followed by briefings from the Engineering and Construction Material Handling Sections.

Saturday, November 19th

A free day for sightseeing and shopping

Sunday, November 20th

Travel to the Northern Province of Ilocos Norte via airlines.

Monday, November 21st

Group I continued its Training/Observation Tour in the field by being welcomed to the Ilocos Norte Electric Cooperative (INEC) by its General Manager and staff.

An overall briefing on total REC activities was conducted by the General Manager and each of the Department Heads followed by a visit to each of the Department Offices within the compound (and a field visit to a Dendro Thermal Power Plant)

Tuesday, November 22nd

Ilocos Sur Electric Cooperative (ISEC); an overall briefing of the REC's activities by the General Manager and staff, and then the group divided into the "Member Services" and "Operations Departments" for individual briefing and on-site inspection of work-flow procedures. The ISEC General Manager conducted a briefing on management functions, for the benefit of the Acting Manager from Luwu and PDO-RE staff participants.

Wednesday, November 23th

La Union Electric Coop (LUECO); the group visited a branch office and was briefed on its functions and relations to the main office of the REC; observed housewiring in progress; and was further briefed on Coop activities in the main office by the Department Heads.

Thursday, November 24th

Pangasinan Electric Coop (PANELCO); A briefing on the REC activities, with emphasis on the new Dendro Thermal Power Plant and planting of Ipil-Ipil trees as a fuel supply, was conducted by the General Manager. The PANELCO staff explained work-flow within their respective departments. The General Manager accompanied the group on a tour of the new Dendro Power Plant and a drive through a part of the 11,000 hectre Ipil-Ipil Tree-Farm.

Friday, November 25th

Central Pangasinan Electric Coop (CENPELCO); A briefing on the REC activities by the General Manager and Department Heads (CENPELCO is serving over 76,000 consumers, the largest REC in the Philippines)

Participants viewed the internal and external operations of the REC.

After a lunch served by the CENPELCO staff, the group returned to Manila. During the evening the participants attended a dinner hosted by the Administrator of NEA, General Pedro G. Dumol. Following the dinner, the Administrator gave a very lengthy overall outline of the Rural Electrification Program from its beginning, to the present time and projections for the future. This was in comparison with Indonesia, and what can be accomplished through an Electrification Program.

Saturday, November 26th

Final contact with the NEA/RETO staff in the morning, and travel to Singapore in the afternoon. Overnight stay on return-trip to Jakarta.

Sunday, November 27th

Returned to Jakarta

Monday, November 28 & 29th

PDO-RE office, Jakarta.

Group I participants prepared their individual reports of their Training/Observation Tour of Rural Electrification in the Philippines. Participants then returned to their respective assignments.

It is planned that group II, consisting of the Office Services and Power Generation Department Heads from the three (3) REC's, with PDO staff, will depart for the Philippines for a similar Training/Observation Tour in February 1984.

STATUS REPORT ----- SINAR SIWO MEGO RURAL ELECTRIC COOPERATIVE (LAMPUNG)OPERATIONS

The Lampung REC more than doubled their kilometers of distribution lines and the number of consumer-connections during 1983. At year end, 3100 consumers were being served from 130 Km of primary and secondary distribution lines.

A second (temporary) power plant was added in the NE sector of the REC's service area with an installed capacity of 425 Kws. At year end, the original temporary power plant at Metro (REIL I demonstration RE project) contained gen-sets with 500 Kw's nameplate capacity.

ORGANIZATION

The REC has 53 full-time employees working at their temporary office in Metro plus a line crew of 22 men. In addition, in excess of 30 local residents were employed for several months during the construction of additional distribution lines and the second power plant.

A PDO-RE employee serve as acting manager, the position he has held since 1980. The original members of the Board of Directors were terminated in 1982 and, at the 1983 annual meeting of members, a new Board was chosen. They have gradually accepted their policy-making role in the REC.

CONSTRUCTION

At the end of 1983, the newly constructed office building and warehouse at Kotagajah was almost ready for occupancy. It is expected that these facilities, constructed at a cost of nearly four hundred million rupiah (Rp. 400,000,000) will be placed in service by February 1984.

Distribution system materials and equipment, procured through the U.S. dollar loan, are being stored temporarily in another building at the Kotagajah headquarters site. Movement of these items to the permanent warehouse will begin in early 1984.

Construction of the main distribution system, more than 1300 kilometers of primary and secondary lines, is scheduled to begin in the second quarter of 1984. When completed, the distribution system will be expanded in excess of ten times the present size (km's of line)

FINANCES

Financial reports for this REC may be found on pages 30-32 in this report. It may be noted on line 15 of the operating report (page #32) that they are operating at almost a break-even point. In the first eleven months of 1983, their report indicates a slight margin (gain) in seven of these monthly reporting periods.

Plans have been made to increase tarif (retail rates) in January 1984. Thereafter, assuming diesel fuel costs remain the same, the Lampung REC should have a continual cash gain from their business operations at the proposed rate level.

MAJOR PROBLEM AREAS

- 1). Possibly the greatest single problem relates to wood-pole supply. The REC started a pole treatment plant in their project area in 1981 - 82. Problems arose and the plant remained uncompleted until late 1983.

Treatment plant construction resumed and it should be ready for a test-run by February, 1984. As of 1983 ending, however, the source of raw poles and chemicals was not clearly defined.

- 2). Generation capacity is another problem area. The REC has 925 Kw's of generation, nameplate rating of seven units, which can only supply power for approximately five thousand (5,000) consumers. Assuming the wood pole problem is overcome and main distribution system construction begins in the second quarter of 1984, this REC will run out of generating capacity in the third quarter of 1984.

A 400-Kw gen-set is on-order from the U.S. dollar loan. Of great importance now is: the design of a permanent power plant for the Kotagajah headquarters site and preparations to tie existing distribution systems together to be served from Kotagajah, utilizing the 400 Kw gen-set and the seven existing units; selection of gen-set and step-up transformer sizes to be procured through PL480 funds; procurement action to assure that additional generation will be available by the third quarter of 1984.

- 3). It is now apparent that the GOI Rupiah loan-funds, presently available to the Lampung REC, will be insufficient to pay for wood poles, and labor and overhead costs of constructing the main distribution system. The reason relates to the number of kilometers staked (1,405 Km) as compared to original estimates of kilometers of primary and secondary lines (485 Km).

This problem is under study at PDO-RE, but at 1983 ending, no course of action had been selected.

SUMMARY

The Lampung REC has the potential of becoming a relatively large, viable, electric utility. The major problems referred to above must be overcome, and guidance by PDO-RE/consultants continued, to achieve this objective.

Presently, in excess of 3100 members are being served from 130 Km of distribution line, an average of 24 consumers per Km of line.

Assuming a system average of 20 consumers per Km of line, and multiplying this time the number of Kms already staked, it can be seen that the Lampung REC could be serving about 30,000 consumers in the future.

This connection level is ten times the existing consumer-connections. Attainment of this will require a well-managed organization, and a supervising agency that can locate and make available needed construction funding on a timely basis.

STATUS REPORT ----- SINAR RINJANI RURAL ELECTRIC COOPERATIVE (LOMBOK)OPERATIONS

At the end of 1983, the Lombok REC was serving 2,000 members from approximately 40 kilometers of primary and secondary distribution lines. Information drives and membership signup was in progress and the number of membership applications received was approaching the 4,000 level.

Their power plant, located at Aikmel Lombok with an installed generating capacity of 550 Kw's, continued to provide electric service on a 24 hour basis. Plans were being made to place a new 400 Kw gen-set in their present power plant building in Aikmel in February or March, 1984 (the gen-set ordered through dollar loan funds)

ORGANIZATION

This REC has 50 full-time employees, and will add additional employees as service lines and Kwh-meter installations begin on a large scale in 1984.

The manager is a PDO-RE employee but has served as full-time manager of the Lombok REC since November, 1980. The Board of Directors are performing their functions as "policy-makers", holding regular Board Meetings, and displaying a sincere interest in the welfare of their REC.

CONSTRUCTION

The headquarters facilities are virtually completed and occupancy is expected by February 1984. Furnishings for the office and warehouse have been ordered and partial shipment received. Construction cost for this Rp. 400,000,000 investment was divided almost equally between the GOI rupiah loan and the U.S. dollar loan.

A contractor is now constructing the main electrical distribution system, consisting of 155 kilometers of primary and secondary lines. Approximately one-half of the 2,200 wood poles, included in the main distribution system, had been installed by the end of 1983. Contract completion is scheduled for mid-1984.

Contract electricians are now installing housewiring and, as the contractor completes secondary lines, the REC line-crews will install service lines and Kwh meter entrances. The consumer-connection level is expected to triple before the end of 1984.

FINANCES

Financial reports for this REC may be found on pages 33 - 35 of this report. It may be noted that revenue increased in August, 1983, as a result of a substantial retail rate increase. Consumer-connection level dropped as large numbers of consumers were disconnected for non-payment of electric energy billing.

Most of the disconnects are considered to be temporary.

This REC has excess U.S. dollar loan funds which must be transferred to the Lampung and Luwu REC's. This is a result of a reduction in the size of their service area, which occurred after the ten million U.S. dollar loan was allocated to the three REC's.

Projections of rupiah loan balances indicate that sufficient funds remain to procure wood poles and to pay labor/overhead costs for construction.

MAJOR PROBLEM AREAS

1). Timely installation of additional generation, to keep-pace with new consumer-connections, is a problem of immediate concern. At present, two of the six U.S. excess property generators at the Aikmel power plant are out of service. Output voltage from the gen-sets must be lowered over evening peak-load conditions to keep the Kw peak within generating capacity.

Distribution system expansion is proceeding, and consumer-connections can soon be made at a rapid pace. The problem ----- insufficient power supply to keep pace with consumer-connections.

As referred to earlier, a 400 Kw gen-set has been ordered for this REC. However, it is imparative that efforts be made to expedite receipt and installation of this interum-step generation.

Looking beyond, limitations of the existing generation and the 400 Kw unit will be reached before mid 1984. This problem is being faced at PDO-RE, and consultants are now preparing IFB for 1,100 Kws of additional generation. It is doubtful, however, that the "wheels of procurement progress" will turn fast enough to meet a mid 1984 deadline.

2). The 1979/80 alteration of this REC's service area resulted in confusion as to which villages were actually to be included in distribution system-design. As a result, several villages which are remotely located in respect to main distribution lines, were not included. Residents in these areas are clamoring for electric service.

To provide area-coverage, it is estimated that approximately 70 additional kilometers of primary and secondary line must be constructed, plus a second power-plant. Construction materials and financing thereof, are major considerations.

Of course, construction of the project as now staked is the primary concern. However, the REC management is hard-pressed for answers to questions raised by key government officials, and residents of the villages which were omitted. They need PDO-RE assistance to establish the time-frame for system expansion, and assurance that funding will be made available:

SUMMARY

The Lombok REC was the first of the three REC's to construct a demonstration project, with a power plant and distribution lines, to three villages (in 1980). They are the first to begin construction of their main project.

Calendar year 1984 will be an important and critical year in the growth of this REC. They have the basic organization, and the potential to meet the challenges ahead. It is recognized however, that full support of lending agencies, PDO-RE, and consultants must be rendered if they are to succeed.

STATUS REPORT ----- SAMABOTUNA RURAL ELECTRIC COOPERATIVE (LUWU)OPERATIONS

This REC constructed a demonstration RE project in the village of Bone Bone which was energized in August, 1981. A second RE project was installed in Mangkutana, a village 45 Km distance from Bone Bone, and energization was accomplished in May of 1982.

Power supply for the Bone Bone system is a plant with 300 Kw's of installed name-plate capacity, while the source of power at Mangkutana is a 200 Kw plant. Distribution systems at both locations are limited to 220/380 volt, low voltage distribution. (No transformers or primary lines)

At the end of 1983, 580 consumers were being served in Bone Bone, with electric service available from darkness until daybreak.

In Mangkutana, 263 consumers were receiving service during the same time-frame.

A third electrical generation (75 Kw's) and low voltage distribution system is in service on a 24 hour basis at the REC's headquarters.

This location, (Minna), 7 Km east of Bone Bone, will be the site for permanent generation, to be located adjacent to office and warehouse buildings.

ORGANIZATION

The REC has 46 employees in total, assigned at three locations. The majority of the employee compliment work out of the REC's temporary office in Bone Bone, where billing, collection and accounting activities are performed. Employees associated with construction material/equipment control are located at the Minna headquarters site, and power plant personnel are based in all three locations.

The acting manager of the REC serves in dual capacity since he is also the GOI/DGC assigned project coordinator. He accepted this dual role in late 1982 after two PDO-RE assigned acting managers, one after another, could not meet the challenge of managing this REC in a relatively remote location.

The Board of Directors as a body, has not functioned as a policy-making group in the true sense. At years-end, two or three board members remain active, and have a desire to assist the REC, but are having trouble separating their functions from functions of employees.

CONSTRUCTION

Headquarters facilities at Minna near completion, and it is expected that the REC staff will move construction material/equipment items into the permanent warehouse in the first quarter of 1984. The office building should be ready for use in the same period.

Unfortunately, construction of the main distribution system has been delayed due to absence of wood poles. A north-Sumatra based supplier, selected in early 1982, had scheduled to deliver 3,000 wood poles by May/June 1983. However, at the end of 1983, no poles had been received.

FINANCES

After several years of disappointment in accounting department output, and report preparation/submission, vast improvement occurred in 1983.

An NRECA Advisor and Chief accountant from the Lampung REC spent two weeks at the project, updating records and training new personnel. Monthly financial and statistical reports are now received at PDO-RE on schedule.

With respect to GOI rupiah loan funds, this REC has expended a much smaller amount of their rupiah loan than the other two REC's. This is because demonstration RE projects, constructed at the two locations, were small in size, requiring minimal rupiah expenditures for material, labor and overhead.

It may be noted on this REC's financial reports that Rp. 1,436,568,456 loan funds were still available (line #32 page # 36) from the original loan of Rp. 1,870,087,500 (line # 49 page # 37) at the end of November, 1983.

A relatively small shortfall of U.S. dollar loan funds exists for material/equipment procurement. This will be overcome by a re-allocation of the U.S. dollar loan between the three REC's, which is primarily a book-keeping transaction at GOI/BRI to be accomplished in 1984.

Calendar year 1983 was a period of financial crisis in the Luwu REC's business operations. Since the period when they began selling electric energy in August, 1981, their retail rate structure has been too low to produce sufficient revenue to pay cash operating expenses. Despite NRECA's long-standing plea, the REC and their supervising agency failed to correct the deficiency.

GOI DIP funds for this project were non-existent for an extended period during 1983. As a result, the REC was forced to raise tariff, as cash expenses exceeded revenue month after month. The effect can be noted on their "operating report" page # 38 of this NRECA report.

MAJOR PROBLEM AREAS

1). From the construction aspect, the most serious problem is the absence of wood poles. This REC has a good stock of other distribution system materials, which were procured through the U.S. dollar loan. Many items have been in temporary storage at their Minna headquarters for nearly two years.

The PDO-RE executed a contract for the supply of 8,500 wood poles in late 1982. Soon thereafter, the contract was divided; one contract with the supplier and one with a shipper. About 2,700 wood poles were prepared for shipment several months ago but unfortunately, at years end, no poles had been received at Luwu.

To complicate matters, the supplier has requested a substantial price increase for the balance of the wood pole order. It is now apparent that the supply contract will be cancelled, leaving this REC with a serious shortfall in poles.

Serious delays in construction schedules have already occurred. Additional delay is eminent. PDO-RE, other GOI agencies involved, and USAID should meet and jointly find a solution to this problem.

2). This REC has gone through a period of 1½ years of minimal activity since the second RE demonstration project was finished. Employees have adapted to short work days, and many employees need refresher training course.

In early 1984, business operations will be transferred from the temporary office in Bone Bone; and warehousing, material/equipment control, will begin in the new facilities.

This will be a critical period for the REC. It is essential that a task force of PDO-RE staff and consultants spend considerable time at the Luwu project as the above mentioned events occur. Concurrently, re-training in some phases of REC activities should be conducted.

FINANCIAL REPORTS

This NRECA report contains two types of financial reports from the three REC's. The first report, Balance-sheet (Assets and Liabilities report) may be found on pages #30, 31, 33, 34, 36, 37. General comments are included below.

BALANCE SHEET --- ASSETS

Physical facilities ----- the first four lines relate to the investment in electric utility plant which is already in-service. Organization expenses are intangible assets, which may be written-off against operating revenues in the future.

Construction Work in Progress --- line number 7 shows CWIP costs. This includes unassigned overheads, payments made to contractors for headquarters facility construction, and construction of the distribution system for demonstration projects which have not been closed-out. As these construction segments for each of the REC's are closed-out, costs will be transferred to utility plant in service. (Lines #3 for distribution system and #4 for headquarters facilities)

Depreciation ----- line #6, represents the computed loss-of-service value of utility plant which is already in service. These amounts appear on the REC's operating reports as an expense item.

Cash accounts ----- these are listed on lines #9 through #14. Other than #12A, each account is an actual bank account in the REC's local BRI branch.

On line #9 is listed Rp. 1,000 membership fees that have been collected from each member-applicant, plus the interest that BRI has paid on the bank balance.

Line #10 reflects the amount of money that came from sale of electric energy, while lines #11 and #12 show the loan fund balances, advances from the GOI loan.

Lines #13 and #14 relate to funds available from collections for housewiring installations. Through the U.S. dollar loan, materials were ordered in quantities sufficient to wire 6,000 houses per REC. When this material stock is depleted, these housewiring "revolving-funds" must be used to procure additional materials.

The bank accounts shown on lines #11 and #13 are Board of Director controlled depositories. Transfers are made to the "managers disbursement account" in limited quantity, an internal control procedure.

1983 was a difficult year for the REC's from a financial viewpoint. GOI DIP funds were very limited, and it was often necessary to transfer REC funds between bank accounts to meet monthly operating expenses.

Accounts receivable ----- these are shown on lines #16 through #19. Kwh meters are read on the last days of each calander month so therefore, the month-end reports always include that months energy billing, the collection of which will begin in the following month.

Inventory ----- line #21 shows the purchase price of diesel fuel and lube oil, for power-plants, left in stock at months end. Distribution system materials are reflected on line #22, and housewiring materials on line #23. Stores expense #25A represents freight and handling costs plus expenses for warehousing.

Loan funds available ----- lines #32 through #35 show the rupiah and dollar loan funds (converted to rupiah). The Canadian loan will be removed from records of all three REC's in December 1983.

BALANCE SHEET --- LIABILITIES

Membership fees ----- lines #41 and #42 show the membership fees as members equity, a liability of the REC's. Fees collected with membership applications reflect in the unapproved column until the application has been approved by the Board of Directors.

Operating margins ----- gains or losses in the REC's business operations are shown on lines #44 through #47. Operating margins refer to results of sales of electric energy while non-operating margins show the results of housewiring activities.

Operating expenses are computed on the accrual basis which includes depreciation, and interest accrual on long-term debt. The net gains or losses, as shown on operating reports pages # 32, 35, and 38 are transferred to "Members Equity" accounts, and appear on lines #44 - #47 of the balance sheet, liabilities.

Long term debt ----- lines #49, #50 show the loan principal of the rupiah and dollar loan respectively (The Canadian loan totals will be deleted) There is a six year grace period on the Rupiah loan and a 10 year grace period on the U.S. dollar loan, after which repayment of principal is scheduled to begin.

Consumer deposits ----- these represent advance collections from members prior to wiring their home (line #59) and/or prior to energization (line #58). It may be noted that the Lampung REC has placed emphasis on consumer deposits for energy billing while the Lombok REC collects deposits on housewiring.

Interest charges ----- in the loan agreements between the GOI/BRI and the REC's, interest on the rupiah loan (6 %) plus a bank service charge, (.6%) and interest on the dollar loan (2 %) plus a bank service charge (.6 %), is deducted from the principal balance of the rupiah loan.

The actual amount of these charges is not known at the REC's on a month to month basis, however, the REC's compute the charges from the best information available, and enter their computations on lines #62, #63. On a semi-annual basis, BRI provides their computation and the REC's adjust their records accordingly.

Accruals ----- rent and payroll refer to amounts accrued by not paid at months end. The REC's have not formally adopted a fringe benefit plan and therefore, vacation accrual at present is non-existent.

Contributions ----- for the most part, contributions include GOI grant fund (DIP) support for the REC. The records for DIP fund disbursements are maintained at the DGC project coordinators office. As a result, the information received by the REC is usually incomplete. Lines #72 and #73 reflect the DIP fund expenses from information made available to the REC's.

FINANCIAL REPORTS - OPERATING REPORT

The operating reports for the first 11 months of 1983, which reflect the financial gain or loss from business activities, may be found on pages # 32, 35, and 38. Comments on the operating reports are listed below.

Operating revenues ----- on line #1 is shown the total accrued billing for electric energy sales month by month. Line #2 reflects revenue from connect, disconnect charges, penalties and other miscellaneous revenue, not a part of the retail rate charges.

On the Lampung REC report, it can be noted that revenue increased substantially in September due to the addition of 1003 consumers for billing. (See bottom of page, "number receiving service").

Revenue increased substantially at the Lombok REC in the month of August, and increased at the Luwu REC in the month of September, due to increases in retail rates (tarif) at these two REC's.

Expenses, power plant ----- shown on line #4 is the largest single expense item, the cost of diesel fuel and lube oil for power plant operation. Line #5 shows plant operating expenses which is basically salaries of power plant operators. Line #6 normally includes mechanics salaries, however it may be noted that this line item increases drastically in months when costly gen-set maintenance parts are procured/installed.

Expense, distribution system ----- lines #8, #9, show the expenses incurred for operating and maintaining the REC's distribution system. The entries relate mostly to linemens salaries, vehicle expenses etc. since the distribution systems are new and very few replacement material items are required.

Expense, Consumer-accounts ----- line #11, this caption includes Kwh meter-reading, billing and collecting expenses.

Expense, General and Administrative ----- line #12, expenses relating to the operation of the office, other than billing and collecting, are included as GA expense, including Board Members per diem, travel expenses, office supplies and utilities etc.

Expense, sales ----- line #13, included in sales expense are costs associated with promoting the use of electric energy, including load-building efforts and promotion of safe and efficient use of electricity,

Expense, Interest ----- line #16, includes interest expense on both the rupiah and U.S. dollar loan, on loan funds invested in "Utility plant - in Service".

Expense, depreciation ----- line #18, represents the loss-of-service value of depreciable electric utility plant, computed at depreciation rates recommended by PDO-RE/NRECA.

Income/Expenses, non-operations ----- business activities of the REC's, which are not related directly to the sale of electric energy, are referred to as non-operating activities. Lines #20 through #27 all relate to income and expenses for the housewiring program conducted at each REC. This lines would also include income/expense relating to the sale of electric appliances if the REC's were engaged in this activity.

DIP contribution ----- the amount of GOI grant funds expended in support of the REC's operations are shown on line #29. It is expected that DIP funds will no longer be needed after the REC's reach a consumer-connection level of six to eight thousand consumers, and revenues are sufficient to meet expenses.

Statistical data is shown on the bottom of the operating reports. At the existing fuel-cost level, and consumer connection level, the REC's must receive a minimum of Rp. 135 per Kwh billed to meet cash operating expenses. It may be noted that, after retail rates were increased, the Lombok REC is approaching this level, Luwu REC follows, but at Lampung, where retail rates were not changed in 1983, the revenue per Kwh billed is in the Rp. 110 range.

Additional statistical data in comparison form, REC to REC, may be found on page # 39 of this report.

SUMMARY

The information found on pages # 30 - # 39 is an indication that REC financial and statistical reports and reporting procedures improved considerably in 1983. NRECA and PDO-RE counterparts continue to work with the REC staff to provide additional improvement.

BALANCE SHEET,
SINAR SIWO MEG

ITEM#		JANUARY	FEBRUARY	MARCH	APRIL	MAY
	<u>A S S E T S</u>					
	<u>ELECTRIC UTILITY PLANT</u>					
1	Organization Expenses	8,739,907	8,899,770	9,050,551	9,181,831	9,181,8
2	Power Plant	32,311,962	32,311,962	32,311,962	35,061,962	35,061,9
3	Distribution Plant	258,418,703	258,418,703	258,418,703	258,418,703	258,418,7
4	General Plant	37,785,820	37,785,820	38,713,770	40,342,750	40,757,5
5	TOTAL	337,256,392	337,416,255	338,494,986	343,005,246	343,419,9
6	Less: Depreciation	28,625,029	30,042,096	31,459,153	32,876,230	34,293,2
7	C.W.I.P. (Construction Work in Progress)	635,199,926	677,394,986	710,545,175	910,937,549	998,981,6
8	Net Utility Plant	943,831,289	984,769,145	1,017,580,998	1,221,066,565	1,308,028,3
	<u>CASH</u>					
9	Membership Fees	1,135,001	1,154,469	1,194,655	1,342,609	1,479,9
10	General Funds	12,916,130	14,573,037	1,928,737	3,157,889	5,067,4
11	Const. Fund, Board Acct.	22,311,943	3,695,806	3,700,650	102,528,244	81,954,7
12	Const. Fund, Manager Acct.	1,034,551	12,168,451	21,025,965	45,639,184	35,434,6
12A	Petty Cash	39,500,000	39,500,000	-	-	-
13	Housewiring, Boards Account	5,299,994	5,410,718	39,500,000	10,500,000	10,500,0
14	H.W. Managers Account (Housewiring)	-	-	1,569,463	2,559,983	3,858,4
15	TOTAL	82,197,619	76,502,481	68,919,470	165,727,909	138,294,9
	<u>RECEIVABLES</u>					
16	Acct. Receivable Energy Sales	9,886,409	10,390,334	10,176,619	8,904,304	8,769,7
17	Acct. Receivable, HW.	2,393,441	2,642,871	2,877,865	3,850,340	5,499,8
18	Acct. Receivable, other	108,865	188,865	188,865	188,865	188,8
19	Acct. Receivable Employees, Directors	-	-	-	-	-
20	TOTAL	12,468,715	13,222,070	13,242,619	12,943,509	14,458,4
	<u>MATERIAL & SUPPLIES</u>					
21	Fuel stock	982,997	736,607	1,399,535	1,507,440	-1,502,8
22	Materials Supplies Distribution	437,924,624	445,353,810	442,771,525	331,430,556	257,254,3
23	Materials Supplies HW.	12,074,312	11,826,800	11,511,884	9,907,336	21,185,3
24	Office Supplies	-	-	-	-	-
25	Power Plant & Other	-	-	-	-	280,0
25A	Stores Expenses	3,867,670	4,338,736	4,869,706	4,877,186	5,100,6
26	TOTAL	454,849,603	462,255,953	460,552,650	347,722,518	285,323,2
	<u>PRE PAYMENTS</u>					
27	Insurance	-	-	-	-	-
28	Building Rental	-	-	-	-	-
29	Equipment	-	-	-	-	-
30	Other	-	-	-	4,764,340	9,764,3
31	TOTAL	-	-	-	4,764,340	9,764,3
	<u>LOAN FUNDS AVAILABLE</u>					
32	Rupiah Loan, uncommitted	1,874,380,206	1,836,315,772	836,315,772	1,647,859,647	1,647,859,6
33	Rupiah Loan, committed	495,244,794	553,309,228	-	-	-
34	US \$ loan, uncommitted	405,099,411	405,099,411	405,099,411	405,099,411	405,099,4
35	US \$ loan, committed	2,094,900,589	-	-	-	-
36	Canadian \$ loan, uncommitted	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,0
37	Canadian \$ loan, committed	-	-	-	-	-
38	TOTAL	7,279,479,617	7,241,415,183	7,241,415,183	7,052,959,058	7,052,959,0
39	Deferred Debits	1,184,903,559	1,184,657,798	1,164,360,622	1,164,552,746	1,164,552,7
40	TOTAL ASSETS	9,957,730,402	9,962,822,630	9,966,271,542	9,969,736,645	9,973,381,0

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
9,181,831	9,264,408	9,320,117	9,524,576	9,742,018	10,169,946	10,225,891	
35,061,962	35,061,962	35,061,962	35,061,962	148,129,867	148,129,867	148,129,867	
258,418,703	258,418,703	258,418,703	258,418,703	262,335,473	268,335,473	262,335,473	
40,757,500	47,330,325	47,785,325	47,263,775	69,544,725	69,724,725	69,727,225	
343,419,996	350,075,398	350,594,107	350,369,016	495,752,093	496,760,011	496,419,456	
34,293,297	35,710,364	37,127,431	32,544,498	40,990,938	42,267,103	44,143,268	
998,981,695	1,154,483,143	1,176,179,417	1,196,253,040	1,151,052,101	1,221,853,409	1,241,551,730	
1,308,028,394	1,468,848,177	1,489,646,093	1,508,677,558	1,605,813,246	1,675,646,317	1,693,826,918	
1,479,909	1,718,198	1,845,082	2,065,132	2,343,183	2,595,055	3,208,955	
5,067,424	3,290,194	2,717,284	968,594	26,542,551	27,681,755	47,951,962	
81,954,291	33,654,936	3,118,407	117,707	117,007	116,307	221,561,606	
35,434,882	19,119,936	655,106	1,348,721	18,521,323	17,170,579	42,336,743	
-	-	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	
10,500,000	10,500,000	3,198,306	1,538,626	5,814,381	9,745,994	13,530,419	
3,858,415	2,582,133	-	-	-	-	-	
138,294,921	70,865,397	13,034,185	8,038,780	54,838,505	58,809,690	330,089,685	
8,769,749	8,940,229	9,155,073	9,047,006	11,420,091	13,300,866	12,943,311	
5,499,866	6,429,381	7,116,970	10,074,791	6,342,753	2,470,665	23,157,863	
188,865	188,865	15,261,005	26,878,675	28,705,058	26,173,028	2,086,488	
-	-	617,455	1,093,743	1,612,209	2,140,675	-	
14,458,480	15,558,475	32,150,503	47,084,213	48,080,111	44,085,234	38,187,662	
1,502,846	1,408,400	2,506,902	3,828,699	3,094,242	2,317,677	718,346	
257,254,371	245,927,908	271,951,997	252,173,127	1,313,221,056	1,309,499,116	1,298,119,808	
21,185,383	19,669,933	18,068,188	13,010,365	41,682,579	41,005,875	38,919,246	
-	-	-	-	-	-	-	
280,000	280,000	280,000	280,000	280,000	280,000	501,450	
5,100,646	5,204,457	5,350,813	5,355,813	5,113,204	6,870,843	7,068,349	
285,323,246	272,490,698	298,157,900	274,648,004	1,363,391,081	1,359,973,517	1,345,357,199	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
9,764,340	21,149,340	21,149,340	21,149,340	11,149,340	11,149,340	1,849,340	
9,764,340	21,149,340	21,149,340	21,149,340	11,149,340	11,149,340	1,849,340	
1,647,859,647	1,559,539,218	1,559,589,218	1,559,589,218	1,491,733,079	1,447,635,271	914,668,104	
-	-	-	-	-	-	281,521,167	
405,099,411	405,039,411	405,099,411	405,099,411	405,099,411	405,099,411	405,099,411	
-	-	-	-	-	-	-	
5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	
-	-	-	-	-	-	-	
7,052,959,058	6,964,688,629	6,964,688,629	6,964,688,629	6,896,832,490	6,852,734,682	6,601,288,682	
1,164,552,746	1,164,530,628	1,164,476,912	1,164,362,758	32,999,481	32,999,481	32,729,831	
9,973,381,085	9,978,131,344	9,983,303,862	9,988,649,282	10,013,104,254	10,035,398,261	10,043,329,317	

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BALANCE SHEET
*SINAR SIWO M

ITEM#		JANUARY	FEBRUARY	MARCH	APRIL	MAY
	<u>LIABILITIES</u>					
	<u>MEMBERS EQUITY</u>					
41	Memberships approved	1,691,000	1,691,000	1,691,000	1,691,000	1,691,000
42	Memberships unapproved	785,000	793,000	821,000	968,000	1,100,000
42A	Interest Credited	159,001	170,469	182,655	183,609	183,609
43	TOTAL	2,635,001	2,654,469	2,694,655	2,842,609	2,977,218
44	Operating margin, prior years	(12,053,753)	(12,053,753)	(12,053,753)	(12,053,753)	(12,053,753)
44	Non-Operating margin, prior years	3,369,669	3,369,669	3,369,669	3,369,669	3,369,669
46	Operating margin, this year	(2,655,939)	(4,452,758)	(81,182,699)	(9,818,492)	(11,270,000)
47	Non-Operating margin, this year	283,395	593,886	773,030	547,959	46,000
48	TOTAL	(11,056,628)	12,542,956	16,093,753	17,954,617	19,492,536
	<u>LONG TERM DEBT</u>					
49	Rupiah Loan (G01)	2,369,625,000	2,369,625,000	2,369,625,000	2,369,625,000	2,369,625,000
50	U.S. \$ Loan	2,500,000,000	2,500,000,000	2,500,000,000	2,500,000,000	2,500,000,000
51	Canadian \$ Loan	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000
52	TOTAL	9,869,625,000	9,869,625,000	9,869,625,000	9,869,625,000	9,869,625,000
	<u>ACCOUNTS PAYABLE</u>					
53	Suppliers	-	-	-	879,310	86,000
54	Contractors	652,770	-	654,380	-	-
55	Fuel	-	660,550	-	-	-
56	Others	25,000	25,000	25,000	25,000	25,000
57	TOTAL	677,770	685,550	679,380	904,310	111,000
	<u>CONSUMER DEPOSITS</u>					
58	Energy Sales	4,803,200	4,870,400	4,937,600	5,001,600	5,001,600
59	Housewiring	-	-	-	-	-
60	Others	-	-	-	-	-
61	TOTAL	4,803,200	4,870,400	4,937,600	5,001,600	5,001,600
	<u>INTEREST CHARGES</u>					
62	Rupiah Loan	6,896,514	9,179,754	11,462,994	13,746,234	16,020,000
63	U.S. \$ Loan	4,775,535	5,136,458	5,497,381	5,858,304	6,210,000
64	Canadian \$ Loan	-	-	-	-	-
65	TOTAL	11,672,049	14,316,212	16,960,375	19,604,538	22,230,000
	<u>ACCRUALS</u>					
66	Rentals	-	-	-	-	-
67	Payroll	5,000	5,000	5,000	5,000	5,000
68	Vacation	-	-	-	-	-
69	Others	336,380	336,380	336,380	336,380	336,380
70	TOTAL	341,380	341,380	341,380	341,380	341,380
71	Deferred Credits	-	-	-	-	-
	<u>CONTRIBUTION</u>					
72	Construction	35,109,626	37,498,313	40,016,962	41,219,162	42,710,000
73	Operations	43,923,004	45,374,262	47,109,943	48,109,943	49,020,000
74	TOTAL	79,032,630	82,872,575	87,126,905	89,329,105	91,730,000
75	TOTAL LIABILITIES	9,957,730,402	9,962,822,630	9,966,271,542	9,969,736,645	9,973,392,000

NCE SHEET, LIABILITIES - 1983
 NAR SIWO MEGO" REC - LAMPUNG

"B"

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1,691,000	2,811,000	2,811,000	2,811,000	2,811,000	2,811,000	3,353,000	
1,106,000	223,000	348,000	563,000	701,000	731,000	270,000	
182,909	184,198	186,002	191,132	196,783	202,455	201,755	
2,979,909	3,218,198	3,345,082	3,565,132	3,708,783	3,744,455	3,824,755	
(12,053,753)	(12,053,753)	(12,053,753)	(12,053,753)	(12,053,753)	(12,053,753)	(12,053,753)	
3,369,669	3,369,669	3,369,669	3,369,669	3,369,669	3,369,669	3,369,669	
(11,270,135)	(12,667,537)	(14,189,198)	(15,641,897)	(16,961,999)	(27,442,384)	(29,658,656)	
461,689	423,139	71,122	95,849	(91,756)	189,261	160,231	
19,492,530	(20,924,482)	22,802,160	24,230,132	(25,737,839)	(35,937,207)	(38,182,509)	
2,369,625,000	2,369,625,000	2,369,625,000	2,369,625,000	2,369,625,000	2,369,625,000	2,369,625,000	
2,500,000,000	2,500,000,000	2,500,000,000	2,500,000,000	2,500,000,000	2,500,000,000	2,500,000,000	
5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	
9,869,625,000	9,869,625,000	9,869,625,000	9,869,625,000	9,869,625,000	9,869,625,000	9,869,625,000	
867,675	922,200	912,045	2,163,495	549,810	549,810	-	
-	-	-	801,950	-	795,665	1,038,345	
-	-	-	-	744,350	-	-	
25,000	25,000	25,000	25,000	25,000	25,000	25,000	
892,675	947,200	937,045	2,990,445	1,319,160	1,370,475	1,063,345	
5,049,600	5,104,000	5,193,600	5,286,400	5,452,800	8,236,800	8,691,200	
-	-	-	-	134,400	350,600	884,200	
5,049,600	5,104,000	5,193,600	5,286,400	5,587,200	8,587,400	9,575,400	
16,029,474	10,075,993	24,122,512	28,169,031	32,215,550	36,262,069	-	
6,219,227	6,580,150	6,941,073	7,301,996	30,444,990	32,993,659	-	
22,248,701	26,656,143	31,063,585	35,471,027	62,660,540	69,255,728	75,850,916	
5,000	5,000	-	-	-	-	-	
336,380	336,380	336,380	336,380	336,380	356,380	336,380	
341,380	341,380	336,380	336,380	336,380	356,380	336,380	
42,712,709	43,463,292	45,365,467	45,365,467	45,365,467	58,278,182	59,803,151	
49,023,641	49,700,613	50,239,563	50,239,563	50,239,563	60,137,848	61,432,879	
91,736,350	93,163,905	95,605,030	95,605,030	95,605,030	118,416,030	121,236,030	
9,973,381,085	9,978,131,344	9,983,303,862	9,988,649,282	10,013,104,254	10,035,398,261	10,043,329,317	

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*OPERAT

LINE #	OPERATIONS	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	<u>REVENUE</u>					
1	Operating revenue	3,725,025	4,074,345	3,856,315	4,098,735	4,216,500
2	Miscellaneous revenue	30,000	24,770	7,760	5,000	34,000
3	TOTAL REVENUE	3,755,025	4,099,115	3,864,075	4,103,735	4,250,500
	<u>EXPENSES</u>					
4	Power Plant - Fuel	2,462,250	2,311,428	2,351,559	2,692,158	2,742,400
5	Operations	611,768	649,872	811,333	477,187	496,700
6	Maintenance	297,902	-	1,475,380	372,445	-
7	TOTAL PRODUCTION EXPENSES	3,371,920	2,961,300	4,638,272	3,541,790	3,239,100
8	Distribution - Operations	21,419	9,078	-	-	-
9	Maintenance	220,620	175,202	273,950	85,351	78,400
10	TOTAL DISTRIBUTION EXPENSES	242,039	184,280	273,950	85,351	78,400
11	Consumer-accounts expense	299,833	252,217	135,100	83,516	263,400
12	General and Administrative	692,063	693,028	741,585	223,762	472,900
13	Sales expense	-	-	-	-	-
14	TOTAL OPERATING EXPENSES	4,605,655	4,090,825	5,788,907	3,934,419	3,897,100
15	Gross Operating Margin (3 minus 14)	(850,830)	8,290	(1,924,832)	169,316	353,400
16	Interest expense	1,096,390	1,096,390	1,096,390	1,096,390	1,096,390
17	Cash Operating Margin (15 minus 16)	(1,947,220)	(1,088,100)	3,021,222	927,074	742,900
18	Depreciation/Amortization	708,719	708,719	708,719	708,719	708,719
19	Net Operating Margin (17 minus 18)	(2,655,939)	(1,796,819)	3,729,941	1,635,793	1,451,600
	<u>NON-OPERATING REVENUES</u>					
20	Housewiring income	819,410	401,314	384,935	1,964,425	3,084,600
21	Other income	178,850	196,207	187,593	126,303	271,100
22	TOTAL NON OPERATING REVENUE	998,260	597,521	572,528	2,090,728	3,355,700
	<u>NON-OPERATING EXPENSE</u>					
23	Housewiring expense - Material	527,405	212,630	205,970	1,576,111	2,414,200
24	Labor	117,275	46,140	44,555	335,060	508,800
25	Other	70,185	28,260	142,859	404,628	518,900
26	TOTAL NON OPERATING EXPENSE	714,865	287,030	393,384	2,315,799	3,442,000
27	Non Operating Margin (22 minus 26)	283,395	310,491	179,144	(225,071)	(86,200)
28	TOTAL MARGIN (19 plus 27)	(2,372,544)	(1,486,328)	3,550,797	1,860,954	1,537,900
29	Contribution from DIP fund	1,473,902	1,451,258	1,735,681	863,305	870,900
30	TOTAL MARGIN INCLUDING DIP (28 plus 29)	(898,642)	35,070	1,815,116	997,559	666,900
	Number receiving service	1,474	1,486	1,481	1,477	1,477
	kwhs Billed	35,986	41,356	38,198	43,849	45,000
	Average revenue per consumer	2,558	2,741	2,604	2,775	2,890
	Average revenue per kwh billed	108	98	105	96	100
	Average kwh consumption per consumer	23.7	27.8	25	28	25

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STATISTICAL REPORT
 CENTRAL COOPERATIVE, LAMPUNG
 8 3
 REPORT"

JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
4,341,220	4,472,445	4,620,335	7,942,515	7,025,195	7,630,675	
84,000	48,000	113,500	64,680	96,410	129,380	
4,425,220	4,520,445	4,733,835	8,007,195	7,121,605	7,760,055	
3,101,259	3,022,900	3,010,266	4,885,545	4,687,815	5,508,531	
392,724	531,107	445,804	487,661	3,823,968	927,125	
45,500	-	8,524	1,130,788	147,012	198,200	
3,539,483	3,554,095	3,464,674	6,503,984	8,650,795	6,633,856	
-	-	-	-	61,101	44,191	
74,827	31,654	371,258	151,417	551,749	89,397	
74,827	31,654	371,258	151,417	612,850	130,588	
129,446	213,951	253,251	322,508	2,348,852	625,500	
265,257	438,797	292,242	321,631	3,848,448	453,338	
4,500	2,500	-	-	-	-	
4,013,513	4,240,997	4,381,425	7,299,540	15,468,945	7,843,282	
411,707	279,448	352,410	707,655	(8,347,340)	(83,227)	
1,096,390	1,096,390	1,096,390	1,319,038	1,319,038	1,319,038	
(684,683)	(816,942)	(743,980)	(611,383)	(9,666,378)	(1,402,265)	
708,719	708,719	708,719	708,719	814,007	814,007	
(1,393,402)	(1,525,661)	(1,452,699)	(1,320,102)	(10,480,385)	(2,216,272)	
1,770,390	1,952,718	5,809,580	1,131,155	2,007,113	2,361,780	
101,150	34,871	43,200	28,600	118,665	17,700	
1,871,540	1,987,589	5,852,780	1,159,755	2,125,778	23,718,980	
1,388,578	1,657,820	4,554,544	897,949	750,065	1,906,338	
296,585	322,940	954,545	185,145	127,320	387,715	
224,927	358,846	318,964	274,266	967,376	113,957	
1,910,090	2,339,606	5,828,053	1,347,360	1,844,761	2,408,010	
(38,550)	(352,017)	24,727	(187,605)	281,017	(29,030)	
(1,431,952)	(1,077,679)	(1,427,972)	(1,507,707)	(10,199,368)	(2,245,302)	
613,482	538,950	-	-	9,898,285	1,295,035	
(818,470)	(1,338,729)	(1,427,972)	(1,507,707)	(301,083)	(950,271)	
1,493	1,539	1,604	2,707	2,866	3,084	
49,402	50,297	51,963	76,241	66,200	71,151	
2,943	2,906	2,898.5	2,977	2,482	2,505	
91	92	92	108.7	110	110.7	
32.5	31.7	31	27	22.5	22.6	

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BALANCE SHEET,
"SINAR RINJANI"

ITEM#		JANUARY	FEBRUARY	MARCH	APRIL	MAY
	A S S E T S					
	ELECTRIC UTILITY PLANT					
1	Organization Expenses	14,497,777	14,497,777	14,497,777	14,497,777	14,497,777
2	Power Plant	113,410,968	113,410,968	113,410,968	127,564,469	113,410,968
3	Distribution Plant	385,024,720	385,024,720	383,843,941	624,226,028	625,089,941
4	General Plant	96,348,734	96,348,734	96,645,734	96,645,734	110,936,735
5	TOTAL	609,282,199	609,282,199	603,398,120	862,934,008	863,935,421
6	Less: Depreciation	27,984,217	30,040,592	30,780,869	32,839,242	35,622,809
7	C.W.I.P. (Construction Work in Progress)	103,393,775	106,258,977	113,810,102	204,716,224	208,066,973
8	Net Utility Plant	684,691,757	685,500,584	691,427,653	1,034,810,990	1,036,379,585
	CASH					
9	Membership Fees	2,150,726	2,151,726	2,160,657	2,610,657	2,817,657
10	General Funds	3,484,334	2,177,959	391,631	1,184,101	16,345,981
11	Const. Fund, Board Acct.	32,400	32,400	4,973,848	4,973,848	4,973,848
12	Const. Fund, Manager Acct.	157,948	157,948	157,948	157,948	157,948
12A	Petty Cash	304,715	300,590	344,215	357,395	346,565
13	Housewiring, Boards Account	14,392,900	14,392,900	14,457,284	16,596,384	9,252,994
14	H.W. Manager Acct. (Housewiring)	2,033,965	1,960,470	2,425,665	227,290	3,522,365
15	TOTAL	22,556,988	21,173,993	24,911,248	26,107,623	37,417,358
	RECEIVABLES					
16	Acct. Receivable Energy Sales	4,877,605	5,163,920	5,018,200	5,120,200	5,380,865
17	Acct. Receivable, HW	10,665,476	10,665,476	10,700,237	10,700,237	10,666,228
18	Acct. Receivable, other	7,231,169	7,231,169	7,182,419	7,182,419	7,182,419
19	Acct. Receivable Employees, Directors	816,950	816,950	816,950	816,950	3,923,950
20	TOTAL	23,591,200	23,877,515	23,717,806	23,819,806	27,153,462
	MATERIAL & SUPPLIES					
21	Fuel Stock	530,689	978,083	838,617	735,052	339,437
22	Materials Supplies Distribution	277,452,361	277,350,600	273,943,070	347,930,613	347,096,252
23	Materials Supplies HW.	17,648,015	17,638,179	17,611,863	17,580,873	17,564,193
24	Office Supplies	6,229,213	6,541,325	11,596,207	7,464,069	7,370,334
25	Power Plant & Other	12,101,806	11,862,206	11,862,206	11,804,755	11,850,855
25A	Store. Expenses	5,602,838	5,787,427	6,395,259	6,765,116	7,001,028
26	TOTAL	319,564,922	320,147,820	322,247,222	392,280,478	391,222,099
	PRE PAYMENTS					
27	Insurance	-	-	-	-	-
28	Building Rental	-	-	-	-	-
29	Equipment	-	-	-	-	-
30	Other	4,679,687	3,178,197	3,923,547	3,283,392	4,015,247
31	TOTAL	4,679,687	3,178,197	3,923,547	3,283,392	4,015,247
	LOAN FUNDS AVAILABLE					
32	Rupiah Loan, uncommitted	7,027,910	687,027,910	687,027,910	687,027,910	687,027,910
33	Rupiah Loan, committed	485,380,857	485,380,857	480,439,409	397,025,240	397,025,240
34	US \$ loan, uncommitted	1,044,846,040	1,044,846,040	1,044,846,040	1,044,846,040	1,044,846,040
35	US \$ loan, committed	964,471,108	964,471,108	964,471,108	635,946,783	635,946,783
36	Canadian \$ loan, uncommitted	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000
37	Canadian \$ loan, committed	-	-	-	-	-
38	TOTAL	7,650,475,915	7,650,475,915	7,645,534,467	7,233,595,973	7,233,595,973
39	Deferred Debts	5,119,200	5,119,200	5,119,200	5,119,200	5,119,200
40	TOTAL ASSETS	8,710,679,669	8,709,473,224	8,716,881,143	8,719,017,462	8,734,902,924

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BALANCE SHEET, ASSETS - 1983
 "SINAR RIHJANI" REC - LOMBOK

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
14,497,777	14,497,777	14,497,777	14,497,777	14,497,777	14,497,777	15,861,462	
113,410,968	113,410,968	113,410,968	113,410,968	113,410,968	113,410,968	113,410,968	
625,089,941	625,055,209	623,316,818	623,316,818	623,711,622	624,012,646	624,012,646	
110,936,735	111,033,160	111,033,160	112,429,625	112,522,775	112,540,440	112,540,440	
863,935,421	863,997,114	862,258,723	863,655,188	864,143,142	864,461,831	865,825,516	
35,622,809	38,392,123	40,290,354	43,075,062	45,833,044	48,483,472	51,295,042	
208,066,973	272,921,940	323,317,217	438,526,839	537,025,361	573,814,547	640,311,228	
1,036,379,585	1,098,526,931	1,145,285,586	1,259,106,965	1,355,285,459	1,389,792,906	1,454,841,702	
2,817,657	3,330,952	3,480,952	3,646,419	3,720,918	3,814,918	4,002,918	
16,345,981	11,769,391	1,207,146	1,468,031	2,323,181	7,320,688	32,693,383	
4,973,848	32,400	32,400	32,400	32,400	41,849,605	32,400	
157,948	157,948	157,948	157,948	157,948	157,948	157,948	
346,505	383,140	383,140	400,890	400,890	400,890	403,890	
9,252,994	11,689,102	9,927,770	11,067,705	5,853,525	2,843,340	2,664,548	
3,522,365	2,803,930	2,205,605	1,131,905	226,130	163,610	2,414,625	
37,417,358	30,143,913	17,394,961	17,905,298	12,724,992	56,550,999	42,369,712	
5,380,865	5,166,365	5,180,030	8,345,385	7,701,145	7,443,360	7,519,930	
10,666,228	10,645,665	10,657,071	10,448,941	10,736,722	15,220,915	17,940,711	
7,182,419	7,145,169	7,145,169	7,127,419	7,127,419	7,127,419	7,124,419	
3,923,950	7,213,950	14,293,950	17,829,950	24,337,950	29,097,080	4,450,085	
27,153,462	30,171,149	37,276,220	43,751,695	49,993,236	58,888,774	37,035,145	
339,437	736,951	639,662	1,522,833	3,031,050	2,273,171	4,242,134	
347,096,252	391,098,199	543,060,680	575,541,963	589,228,243	578,706,664	559,663,084	
17,564,193	17,563,601	17,539,495	23,993,653	22,653,725	18,154,073	24,437,957	
7,370,334	7,287,696	7,235,272	7,418,082	7,310,224	7,238,835	8,335,057	
11,850,855	9,982,070	9,932,836	9,690,460	9,690,460	9,720,460	9,680,603	
7,001,028	7,167,967	7,375,487	7,535,487	7,718,438	7,925,472	8,142,823	
391,222,099	434,636,404	585,783,432	625,702,478	639,632,140	624,018,675	614,551,658	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
4,015,247	3,434,132	8,487,557	5,015,302	6,517,577	6,747,832	4,646,092	
4,015,247	3,434,132	8,487,557	5,015,302	6,517,577	6,747,832	4,646,092	
687,027,910	687,027,910	687,027,910	590,184,910	590,184,910	544,818,860	544,818,860	
397,025,240	335,600,793	232,269,385	325,143,385	217,796,536	228,122,483	228,122,483	
1,044,846,040	1,044,846,040	1,044,846,040	986,921,690	986,921,690	1,044,846,040	1,044,846,040	
635,946,783	591,481,833	499,307,289	429,680,677	429,680,677	274,132,149	265,115,359	
4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	-	
-	-	-	-	-	-	-	
7,233,595,973	7,127,706,576	6,932,200,624	6,800,680,662	6,693,333,813	6,560,669,532	2,082,902,742	
5,119,200	5,153,800	5,119,200	5,119,200	5,119,200	5,119,200	105,407,450	
8,734,902,924	8,729,772,985	8,731,547,580	8,757,281,600	6,762,606,417	8,701,787,918	4,341,754,501	

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BALANCE S
"SINAR RI

ITEM#		JANUARY	FEBRUARY	MARCH	APRIL	
	LIABILITIES					
	MEMBERS EQUITY					
41	Memberships approved	-	-	-	-	-
42	Memberships unapproved	2,090,000	2,091,000	2,091,000	2,541,000	2,
42A	Interest Credited	60,726	60,726	70,407	70,407	
43	TOTAL	2,150,726	2,151,726	2,161,407	2,611,407	2,
44	Operating margin, prior years	(102,064,762)	(102,064,762)	(102,064,762)	(102,064,762)	(102,
45	Non-Operating margin, prior years	(1,516,560)	(1,516,560)	(1,516,560)	(1,516,560)	(1,
46	Operating margin, this year	(6,792,689)	(12,454,222)	(19,654,154)	(26,522,795)	(33,
47	Non-Operating margin, this year	46,235	46,235	112,291	112,291	
48	TOTAL	(110,327,775)	(115,959,309)	(123,123,185)	(129,991,826)	(137,
	LONG TERM DEBT					
49	Rupiah Loan (001)	1,737,162,500	1,737,162,500	1,737,162,500	1,737,162,500	1,737,
50	U.S. \$ Loan	2,295,000,000	2,295,000,000	2,295,000,000	2,125,000,000	2,295,
51	Canadian \$ Loan	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,
52	TOTAL	8,500,912,500	8,500,912,500	8,500,912,500	8,500,912,500	8,500,
	ACCOUNTS PAYABLE					
53	Suppliers	10,633,600	10,633,600	10,633,600	10,633,600	
54	Contractors	-	-	-	-	
55	Fuel	-	-	-	-	
56	Others	4,950,773	3,389,683	3,695,423	3,695,423	
57	TOTAL	15,584,373	14,023,283	14,329,023	14,329,023	
	CONSUMER DEPOSITS					
58	Energy Sales	22,500	22,500	22,500	22,500	
59	Housewiring	8,928	8,928	9,478	2,139,478	
60	Others	224,513	303,443	229,512	1,694,012	
61	TOTAL	255,941	334,871	261,490	3,855,990	
	INTEREST CHARGES					
62	Rupiah Loan	92,856,108	95,755,177	98,992,945	102,585,046	106,
63	U.S. \$ Loan	3,090,320	3,388,690	3,719,023	4,038,710	4,
64	Canadian \$ Loan	-	-	-	-	
65	TOTAL	95,946,428	99,143,867	102,711,973	106,623,756	110,
	ACCRUALS					
66	Rentals	-	-	-	-	
67	Payroll	2,803,000	2,931,050	3,054,450	3,222,850	3,
68	Vacation	-	-	-	-	
69	Others	13,900	13,900	20,400	20,400	
70	TOTAL	2,816,900	2,944,950	3,074,850	3,243,250	3,
71	Deferred Credits	3,371,689	3,371,689	3,277,638	3,208,190	3,
	CONTRIBUTION					
72	Construction	81,194,528	82,238,832	86,517,152	86,857,042	86,
73	Operations	118,774,359	120,340,815	126,758,295	127,268,130	154,
74	TOTAL	199,968,887	202,579,647	213,275,447	214,125,172	244,
75	TOTAL LIABILITIES	8,710,679,669	8,709,473,224	8,716,881,143	8,719,017,462	8,734,5

STATEMENT OF BALANCE SHEET, LIABILITIES - 1983
 "SINAR RINJANI" REC - LOMBOK

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
-	-	-	-	-	-	-	-
2,748,000	3,235,000	3,408,000	3,569,000	3,632,000	3,726,000	3,914,000	
70,407	74,452	74,452	78,919	90,418	90,418	90,418	
2,818,407	3,309,452	3,482,452	3,647,919	3,722,418	3,816,418	4,004,418	
(102,064,762)	(102,064,762)	(102,064,762)	(102,064,762)	(102,064,762)	(102,064,762)	(102,064,762)	
(1,516,560)	(1,516,560)	(1,516,560)	(1,516,560)	(1,516,560)	(1,516,560)	(1,516,560)	
(33,789,791)	(43,028,674)	(50,598,279)	(55,157,066)	(59,831,924)	(65,619,407)	(75,678,020)	
112,291	141,436	211,602	297,017	641,223	1,509,766	2,014,033	
(137,258,822)	(146,468,560)	(153,967,999)	(158,442,171)	(162,772,023)	(167,690,963)	(177,245,309)	
1,737,162,500	1,737,162,500	1,737,162,500	1,737,162,500	1,737,162,500	1,737,162,500	1,737,162,500	
2,295,000,000	2,295,000,000	2,295,000,000	2,295,000,000	2,295,000,000	2,295,000,000	2,295,000,000	
4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	4,468,750,000	
8,500,912,500	8,500,912,500	8,500,912,500	8,500,912,500	8,500,912,500	8,500,912,500	4,032,162,500	
-	2,078,600	2,078,600	2,211,100	2,078,600	2,553,800	7,100,395	
-	-	-	-	-	-	-	
305,740	305,740	305,740	305,740	305,740	305,740	305,740	
2,384,340	2,384,340	2,384,340	2,516,840	2,384,340	2,859,540	7,406,135	
-	22,500	22,500	22,500	22,500	22,500	22,500	
6,392,928	6,392,928	6,392,928	7,157,928	6,909,478	5,381,128	5,215,228	
494,512	494,512	494,512	949,512	2,749,512	2,750,522	2,874,857	
6,909,940	6,909,940	6,909,940	8,129,940	9,651,490	8,154,150	8,113,185	
109,346,394	105,285,460	109,346,394	113,994,594	118,514,682	51,033,279	56,345,117	
5,019,068	4,688,730	5,019,068	5,349,406	5,669,088	9,391,177	10,709,498	
-	-	-	-	-	-	-	
119,344,000	109,974,190	114,365,462	119,344,000	124,183,770	60,424,456	67,054,615	
-	-	-	-	-	-	-	
2,509,315	2,990,000	2,556,150	2,509,315	1,784,585	1,892,010	2,731,950	
-	-	-	-	-	-	-	
14,600	15,050	31,100	14,600	349,650	643,650	22,050	
2,523,915	3,005,050	2,587,250	2,523,915	2,134,235	2,535,660	2,804,000	
23,294,140	3,627,256	3,277,638	23,294,140	23,304,160	23,304,160	123,592,410	
95,934,503	91,050,083	93,679,391	95,934,503	98,155,109	100,326,791	103,319,321	
159,420,014	156,163,734	157,916,606	159,420,014	159,910,000	157,145,206	170,543,226	
255,354,517	247,213,817	251,595,997	255,354,517	257,755,007	267,471,997	273,862,547	
8,757,281,600	8,729,772,985	8,731,547,580	8,757,281,600	8,766,000,000	8,701,787,918	4,341,754,501	

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LINE #	OPERATIONS	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	<u>REVENUE</u>					
1	Operating revenue	3,240,680	3,570,440	3,408,210	3,517,490	3,801,14
2	Miscellaneous revenue	38,794	47,600	34,717	77,955	41,60
3	TOTAL REVENUE	3,279,474	3,618,040	3,442,927	3,595,445	3,842,75
	<u>EXPENSES</u>					
4	Power Plant - Fuel	3,783,576	3,946,107	4,532,966	4,624,564	4,916,61
5	Operations	331,983	295,519	328,182	260,075	263,37
6	Maintenance	768,115	503,051	802,740	334,001	431,60
7	TOTAL PRODUCTION EXPENSES	4,883,674	4,744,577	5,663,888	5,218,640	5,611,59
8	Distribution - Operations	155,236	203,420	285,828	245,797	201,13
9	Maintenance	410,506	121,468	170,798	134,083	66,26
10	TOTAL DISTRIBUTION EXPENSES	595,742	324,888	456,626	379,880	267,39
11	Consumer-accounts expense	374,772	331,867	464,052	434,749	278,37
12	General and Administrative	648,089	447,791	559,188	701,631	462,64
13	Sales expense	97,500	95,000	95,000	106,100	105,00
14	TOTAL OPERATING EXPENSES	6,599,777	5,944,223	7,238,754	6,841,000	6,725,00
15	Gross Operating Margin (3 minus 14)	(3,320,303)	(2,326,183)	(3,795,827)	(3,245,555)	(2,882,25)
16	Interest expense	1,416,009	1,278,976	1,427,242	1,564,713	1,616,87
17	Cash Operating Margin (15 minus 16)	(4,736,312)	(3,605,159)	(5,223,069)	(4,810,268)	(4,499,12)
18	Depreciation/Amortization	2,056,376	2,056,375	1,976,863	2,058,373	2,767,87
19	Net Operating Margin (17 minus 18)	(6,792,688)	(5,661,534)	(7,199,932)	(6,868,641)	(7,266,99)
	<u>NON-OPERATING REVENUES</u>					
20	Housewiring income	35,550	-	34,761	-	11,25
21	Other income	42,800	-	64,584	-	-
22	TOTAL NON OPERATING REVENUE	78,450	-	99,345	-	11,25
	<u>NON-OPERATING EXPENSE</u>					
23	Housewiring expense - Material	25,915	-	26,040	-	-
24	Labor	6,300	-	6,500	-	11,25
25	Other	-	-	750	-	-
26	TOTAL NON OPERATING EXPENSE	32,215	-	33,290	-	11,25
27	Non Operating Margin (22 minus 25)	46,235	-	66,055	-	-
28	TOTAL MARGIN (19 plus 27)	(6,746,453)	(5,661,534)	(7,133,877)	(6,868,641)	(7,266,99)
29	Contribution from DIP fund	2,219,118	1,566,456	6,417,480	509,835	27,127,251
30	TOTAL MARGIN INCLUDING DIP (28 plus 29)	(4,527,335)	(4,095,078)	(716,396)	(6,358,806)	(19,860,255)
	Number receiving service	1,945	1,968	1,928	1,958	1,871
	Kwhs Billed	46,451	56,704	52,393	58,275	67,350
	Average revenue per consumer	1,666	1,814	1,758	1,993	2,031
	Average revenue per Kwh billed	70	63	65	60.36	50
	Average Kwh consumption per consumer	24	28.8	27.16	29.36	35

NATIONAL AND STATISTICAL REPORT
 NI ELECTRIC COOPERATIVE, L O M B O K

1983

"OPERATIONS REPORT"

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
3,801,145	3,549,900	3,524,110	6,758,485	5,552,265	5,176,435	5,200,580	
41,605	214,285	72,985	55,335	84,970	52,342	29,400	
3,842,750	3,764,185	3,597,095	6,813,820	5,637,235	5,228,777	5,229,980	
4,916,615	4,855,736	4,618,289	4,497,579	3,617,533	3,686,879	3,411,787	
263,378	247,670	288,245	238,055	223,495	229,715	230,710	
431,606	2,243,385	380,124	489,441	358,715	438,707	4,894,052	
5,611,599	7,346,791	5,286,658	5,225,075	4,199,743	4,355,301	8,536,549	
201,130	172,165	248,314	193,761	246,432	121,565	172,764	
66,260	106,649	108,149	155,917	136,924	162,609	109,888	
267,390	278,814	356,463	354,673	432,416	344,174	292,652	
278,376	288,803	332,973	358,261	323,994	320,070	295,661	
462,641	500,731	522,833	554,270	521,535	570,999	645,037	
105,000	105,000	125,000	105,000	110,000	121,000	64,000	
6,725,006	8,520,139	6,623,927	6,597,284	5,525,633	5,711,535	9,824,359	
2,882,256)	(4,755,954)	(3,026,832)	216,536	51,547	(452,759)	(4,594,979)	
1,616,870	1,699,882	1,756,509	1,991,415	1,935,908	2,512,477	2,652,064	
4,499,126)	(6,455,836)	(4,783,341)	(1,774,879)	(1,824,361)	(2,995,235)	(7,247,043)	
2,767,870	2,783,047	2,786,264	2,784,708	2,739,697	2,792,248	2,911,570	
7,266,996)	(9,238,883)	7,569,605	(4,559,587)	(4,674,058)	(5,787,483)	(10,053,613)	
11,250	10,500	46,758	79,930	2,057,778	7,407,393	4,067,276	
-	30,645	63,316	114,905	35,220	-	31,565	
11,250	41,145	110,074	194,835	2,092,998	7,427,393	4,098,841	
-	-	23,858	54,220	1,339,928	4,721,297	2,576,436	
11,250	10,500	16,050	10,200	335,050	1,215,300	527,200	
-	1,500	-	45,000	73,314	602,363	250,933	
11,250	12,000	39,908	109,420	1,742,722	5,533,850	3,594,574	
-	29,145	70,166	85,415	344,206	269,543	504,267	
7,266,996)	(9,200,738)	(7,499,439)	(4,474,172)	(4,329,852)	(4,913,940)	(9,554,346)	
7,127,251	1,768,353	1,752,872	1,503,408	1,480,404	6,244,783	3,398,020	
3,960,255)	(7,441,385)	(5,746,567)	(2,970,754)	2,547,448	1,325,943	(5,156,325)	
1,871	1,860	1,832	1,850	1,756	1,717	1,710	
67,350	57,742	61,913	50,435	44,404	39,710	40,455	
2,031.61	1,908.55	1,924	3,595	3,162	3,015	3,041	
4	61.48	57	112	125	130	129	
-	31.04	34	32	25	23	24	

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BALANCE SHEET
"SAMABOTUNA" R
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ITEM#		JANUARY	FEBRUARY	MARCH	APRIL	MAY
	ASSETS					
	ELECTRIC UTILITY PLANT					
1	Organization Expenses	1,147,338	1,147,338	1,147,338	1,147,338	1,147,338
2	Power Plant	1,926,400	7,098,900	7,098,900	11,573,900	11,573,900
3	Distribution Plant	5,407,400	27,148,863	27,155,163	62,379,142	62,379,142
4	General Plant	4,665,600	4,837,567	4,837,567	98,401,467	98,401,467
5	TOTAL	13,146,738	40,232,668	40,238,968	173,501,847	173,501,847
6	Less: Depreciation	-	-	-	4,522,113	5,024,570
7	C.W.I.P. (Construction Work in Progress)	188,587,478	175,972,406	176,392,014	183,344,385	219,969,918
8	Net Utility Plant	201,734,216	216,205,074	216,630,982	352,324,119	388,447,195
	CASH					
9	Membership Fees	725,000	774,000	774,000	816,875	882,500
10	General Funds	1,442,603	(174,306)	1,300,188	1,204,215	906,050
11	Const. Fund, Board Acct.	596,100	596,100	596,100	-	-
12	Const. Fund, Manager Acct.	10,000	10,000	10,000	-	-
12A	Petty Cash	3,977,497	5,076,197	3,567,197	309,950	309,950
13	Housewiring, Boards Account	3,455,633	3,505,068	3,540,908	1,126,200	1,001,800
14	H.W. Managers Acct. (Housewiring)	-	-	-	4,909,869	5,615,258
15	TOTAL	10,206,834	9,787,059	9,788,394	8,367,109	8,655,558
	RECEIVABLES					
16	Acct. Receivable Energy Sales	2,181,443	2,234,371	2,275,216	1,627,418	1,619,303
17	Acct. Receivable, HW.	3,081,989	3,013,770	2,977,930	1,214,102	538,053
18	Acct. Receivable, other	-	-	-	2,135,445	2,060,446
19	Acct. Receivable Employees, Directors	1,974,345	1,974,345	1,974,345	1,974,345	1,974,345
20	TOTAL	7,237,777	7,222,486	7,227,491	6,951,310	6,192,146
	MATERIAL & SUPPLIES					
21	Fuel stock	3,673,903	3,740,756	3,362,420	736,743	625,953
22	Materials Supplies Distribution	391,710,046	390,626,737	390,548,309	410,865,390	410,865,390
23	Materials Supplies HW.	5,511,561	6,026,499	6,145,199	5,111,188	4,523,050
24	Office Supplies	-	-	-	991,180	991,180
25	Power Plant & Other	-	-	-	-	-
25A	Stores Expenses	7,628,607	37,621,386	37,831,669	38,035,119	38,288,587
26	TOTAL	408,524,117	438,015,378	437,887,597	455,739,620	455,294,160
	PRE PAYMENTS					
27	Insurance	-	-	-	-	-
28	Building Rental	-	-	-	-	-
29	Equipment	6,135,965	7,127,145	7,127,145	6,135,965	6,135,965
30	Other	-	-	-	-	-
31	TOTAL	6,135,965	7,127,145	7,127,145	6,135,965	6,135,965
	LOAN FUNDS AVAILABLE					
32	Rupiah Loan, uncommitted	1,653,173,020	1,653,173,020	1,653,173,020	1,615,969,261	1,581,295,961
33	Rupiah Loan, committed	118,063,830	118,063,830	118,063,830	-	-
34	US \$ Loan, uncommitted	168,525,914	168,525,914	168,525,914	168,525,914	168,525,914
35	US \$ Loan, committed	1,171,654,562	1,171,654,562	1,171,654,562	1,171,654,562	1,171,654,562
36	Canadian \$ Loan, uncommitted	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000
37	Canadian \$ Loan, committed	-	-	-	-	-
38	TOTAL	6,861,417,326	6,861,417,326	6,861,417,326	6,706,149,737	6,671,476,437
39	Deferred Debits	20,446,110	20,446,110	20,446,110	1,303,239	2,077,025
40	TOTAL ASSETS	7,515,702,345	7,560,220,578	7,560,525,046	7,536,971,099	7,538,278,486

BALANCE SHEET, ASSETS
SAMABOTUNA" REC L U W U
1983

M A Y	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1,147,338	1,147,338	1,147,338	2,263,408	2,292,670	2,305,080	2,477,278	
11,573,900	11,573,900	11,573,900	11,573,700	11,573,900	11,929,128	11,929,128	
62,379,142	62,379,142	62,379,142	62,379,142	62,379,142	62,379,142	62,379,142	
98,401,467	98,401,467	130,055,761	130,055,761	130,055,761	137,507,761	137,507,761	
173,501,847	173,501,847	205,156,141	206,272,001	206,301,473	214,121,111	214,293,309	
5,024,570	5,527,027	6,029,484	6,531,941	7,034,398	7,536,855	8,039,312	
219,969,918	221,920,551	600,787,884	602,892,807	669,582,953	671,770,779	675,282,669	
388,447,195	389,895,371	799,914,541	802,632,867	868,850,028	878,355,035	881,536,666	
882,500	828,125	852,750	859,375	866,000	870,625	917,250	
906,050	940,830	2,618,595	3,052,535	1,357,357	3,116,095	5,970,190	
-	-	-	-	-	-	141,932,500	
309,950	309,950	309,950	157,350	78,300	78,300	300	
1,001,800	1,853,600	1,277,875	1,128,183	1,357,233	1,402,005	1,360,005	
5,615,258	5,969,553	6,069,968	6,124,025	6,160,965	6,214,140	6,336,400	
-	-	-	-	-	-	54,750	
8,655,558	9,902,058	11,129,138	11,321,468	9,819,855	11,681,165	156,571,395	
1,619,303	1,734,403	1,768,653	1,754,453	2,369,648	2,253,443	2,334,583	
538,053	213,098	241,545	216,828	209,228	185,393	170,648	
2,060,446	2,060,445	1,910,445	1,985,445	1,760,445	1,685,445	1,610,445	
1,974,345	1,974,345	1,974,345	1,974,345	4,974,345	4,479,095	1,964,345	
6,192,146	5,982,291	5,894,988	5,931,071	9,313,666	8,603,376	6,080,021	
625,953	651,262	609,882	562,525	636,641	719,031	688,355	
410,865,390	410,865,390	871,879,393	871,834,133	871,834,133	960,543,313	959,450,060	
4,523,050	4,523,050	16,453,069	16,446,985	16,446,985	16,936,727	16,482,428	
991,180	991,180	991,180	991,180	991,180	991,180	991,180	
-	-	-	-	-	-	-	
38,288,587	38,530,780	55,926,655	56,113,082	56,335,953	56,526,968	56,716,574	
455,294,160	455,561,662	945,860,179	945,947,905	946,244,892	1,035,717,219	1,034,328,607	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
6,135,965	6,135,965	6,135,965	6,135,965	6,135,965	6,135,965	6,135,965	
-	-	-	-	-	-	-	
6,135,965	6,135,965	6,135,965	6,135,965	6,135,965	6,135,965	6,135,965	
1,581,295,961	1,581,295,961	1,565,426,175	1,565,426,175	1,500,447,939	1,500,447,939	1,436,568,456	
-	-	-	-	-	-	-	
168,525,914	168,525,914	168,525,914	168,525,914	168,525,914	72,074,124	114,117,648	
1,171,654,562	1,171,654,562	288,622,455	288,622,455	288,622,455	288,622,455	168,525,914	
3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	
-	-	-	-	-	-	-	
6,671,476,437	6,671,476,437	5,772,574,000	5,772,574,544	5,707,596,308	5,611,144,518	5,469,212,018	
2,077,025	2,077,025	2,077,025	2,077,025	2,077,025	2,077,025	2,077,025	
7,538,278,486	7,541,030,809	7,543,586,380	7,546,620,845	7,550,037,739	7,553,714,303	7,555,941,697	

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BALANCE SHEET
"SAMAB01"

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
<u>LIABILITIES</u>					
<u>MEMBERS' EQUITY</u>					
41 Memberships approved	725,000	774,000	774,000	800,000	800,000
42 Memberships unapproved	-	-	-	-	-
42A Interest Credited	-	-	-	16,875	-
43 TOTAL	725,000	774,000	774,000	816,875	800,000
44 Operating margin, prior years	(13,452,904)	(13,452,904)	(13,452,904)	(13,452,904)	(13,452,904)
45 Non-Operating margin, prior years	690,780	690,780	690,780	690,780	690,780
46 Operating margin, this year	(1,348,112)	(3,077,273)	(4,684,885)	(11,743,302)	(14,553,552)
47 Non-Operating margin, this year	(130,494)	(194,684)	(477,604)	(635,209)	(837,491)
48 TOTAL	(14,240,730)	(16,034,081)	(17,924,613)	(25,140,635)	(28,223,176)
<u>LONG TERM DEBT</u>					
49 Rupiah Loan (GOI)	1,870,087,500	1,870,087,500	1,870,087,500	1,870,087,500	1,870,087,500
50 U.S. \$ Loan	1,753,107,996	1,753,107,996	1,753,107,996	1,753,107,996	1,753,107,996
51 Canadian \$ Loan	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000
52 TOTAL	7,373,195,496	7,373,195,496	7,373,195,496	7,373,195,496	7,373,195,496
<u>ACCOUNTS PAYABLE</u>					
53 Suppliers	-	-	-	-	-
54 Contractors	-	-	-	679,460	819,460
55 Fuel	-	-	-	-	-
56 Others	-	824,260	824,260	-	-
57 TOTAL	751,060	824,260	824,260	679,460	819,460
<u>CONSUMER DEPOSITS</u>					
58 Energy Sales	-	-	-	-	-
59 Housewiring	-	-	-	-	-
60 Others	-	-	-	-	-
61 TOTAL	-	-	-	-	-
<u>INTEREST CHARGES</u>					
62 Rupiah Loan	12,135,777	12,135,777	12,135,777	16,633,488	17,800,000
63 U.S. \$ Loan	-	-	-	3,625,776	4,500,000
64 Canadian \$ Loan	-	-	-	-	-
65 TOTAL	12,135,777	12,135,777	12,135,777	20,259,264	22,300,000
<u>ACCRUALS</u>					
66 Rentals	-	-	-	-	-
67 Payroll	-	-	-	-	-
68 Vacation	-	-	-	-	-
69 Others	-	-	-	-	-
70 TOTAL	-	-	-	-	-
71 Deferred Credits	110,063,830	110,063,830	110,063,830	-	-
<u>CONTRIBUTION</u>					
72 Construction	-	-	-	139,426,224	139,426,224
73 Operations	25,071,912	71,261,296	73,456,296	27,734,415	29,700,000
74 TOTAL	25,071,912	71,261,296	73,456,296	167,160,639	169,126,224
75 TOTAL LIABILITIES	7,515,702,345	7,560,220,578	7,560,525,046	7,536,971,099	7,538,200,000

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ANCE SHEET, LIABILITIES - 1983
 "SAMABOTUNA" REC - LUWU

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
800,000	800,000	819,000	820,000	820,000	820,000	861,000	
-	-	-	39,375	-	-	-	
22,500	28,125	33,750	-	46,000	50,625	56,250	
822,500	828,125	852,750	859,375	866,000	870,625	917,250	
(13,452,904)	(13,452,904)	(13,452,904)	(13,452,904)	(13,452,904)	(13,452,904)	(13,452,904)	
690,780	690,780	690,780	690,780	690,780	690,780	690,780	
(14,586,141)	(17,259,391)	(20,183,220)	(23,164,883)	(25,598,045)	(27,810,681)	(29,859,440)	
(876,231)	(1,009,256)	(1,148,754)	(1,246,302)	(1,377,801)	(1,464,952)	(1,363,197)	
(28,224,496)	(31,030,771)	(34,094,098)	(37,173,309)	(39,737,970)	(42,037,757)	(43,984,761)	
1,870,087,500	1,870,087,500	1,870,087,500	1,870,087,500	1,870,087,500	1,870,087,500	1,870,087,500	
1,753,107,996	1,753,107,996	1,753,107,996	1,753,107,996	1,753,107,996	1,753,107,996	1,753,107,996	
3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	3,750,000,000	
7,373,195,496	7,373,195,496	7,373,195,496	7,373,195,496	7,373,195,496	7,373,195,496	7,373,195,496	
-	-	-	-	-	-	-	
899,060	899,060	899,060	-	-	899,060	955,860	
-	-	-	899,060	899,060	-	-	
-	-	-	-	-	-	-	
899,060	899,060	899,060	899,060	899,060	899,060	955,860	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
17,826,517	19,019,546	20,212,575	21,405,604	22,598,633	23,791,662	24,984,691	
4,532,220	5,438,664	6,345,108	7,251,552	8,157,996	9,064,440	9,970,884	
-	-	-	-	-	-	-	
22,358,737	24,458,210	26,557,683	28,657,156	30,756,629	32,856,102	34,955,575	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
139,496,899	139,562,774	139,628,649	139,628,649	139,680,106	139,991,426	140,364,614	
29,730,290	33,117,915	36,546,840	40,554,418	44,378,418	47,939,351	49,537,663	
109,227,187	172,680,689	176,175,489	180,183,067	184,058,524	187,930,777	183,902,277	
7,538,278,486	7,541,030,809	7,543,586,380	7,546,620,845	7,550,037,739	7,553,714,303	7,555,941,697	

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FINANCIAL AN
SAMABOTUNA ELEC

*OPER/

LINE #	OPERATIONS	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	<u>REVENUE</u>					
1	Operating revenue	1,444,460	1,490,265	1,495,340	1,562,460	1,565,22
2	Miscellaneous revenue	28,355	17,000	18,000	39,340	27,89
3	TOTAL REVENUE	1,472,815	1,507,265	1,513,340	1,601,800	1,593,11
	<u>EXPENSES</u>					
4	Power Plant - Fuel	1,009,187	1,594,647	1,438,085.25	1,696,525	1,758,79
5	Operations	296,000	299,200	298,200	302,450	11,45
6	Maintenance	58,915	17,700	37,912	13,451	34,69
7	TOTAL PRODUCTION EXPENSES	1,364,102	1,911,547	1,774,197.25	2,012,426	1,804,93
8	Distribution - Operations	271,671	68,710	282,833	217,968	393,96
9	Maintenance	60,203	52,677	111,656	55,674	59,89
10	TOTAL DISTRIBUTION EXPENSES	331,874	121,387	294,489	273,642	453,85
11	Consumer-accounts expense	137,036	200,167	126,130	197,279	216,61
12	General and Administrative	987,915	1,003,325	826,136	860,613	919,77
13	Sales expense	-	-	-	-	-
14	TOTAL OPERATING EXPENSES	2,820,927	3,236,426	3,120,952.25	3,343,960	3,395,18
15	Gross Operating Margin (3 minus 14)	(1,348,112)	(1,729,161)	(1,607,612.25)	(1,742,160)	(1,802,06)
16	Interest expense	-	-	-	839,790	839,79
17	Cost Operating Margin (15 minus 16)	(1,348,112)	(1,729,161)	(1,607,612.25)	2,582,950	(2,641,85)
18	Depreciation/Amortization	-	-	-	200,982	200,98
19	Net Operating Margin (17 minus 18)	(1,348,112)	(1,729,161)	(1,607,612.25)	2,782,932	(2,842,83)
	<u>NON-OPERATING REVENUES</u>					
20	Housewiring income	19,040	599,491	-	4,944	599,49
21	Other income	-	-	-	29,340	29,34
22	TOTAL NON OPERATING REVENUE	19,040	599,491	-	34,284	628,83
	<u>NON-OPERATING EXPENSE</u>					
23	Housewiring expense - Material	16,447	590,481	282,920	4,185	661,33
24	Labor	1,600	73,200	-	1,600	46,15
25	Other	131,487	-	-	244,784	162,30
26	TOTAL NON OPERATING EXPENSE	149,534	663,681	282,920	250,569	869,85
27	Non Operating Margin (22 minus 26)	(130,494)	(64,190)	(282,920)	(216,285)	(241,02)
28	TOTAL MARGIN (19 plus 27)	(1,478,606)	(1,793,351)	(1,890,532.25)	(2,999,217)	(3,083,85)
29	Contribution from DIP fund	2,234,500	2,147,980	2,195,000	2,074,100	2,066,51
30	TOTAL MARGIN INCLUDING DIP (28 plus 29)	745,694	354,629	304,467.75	(920,117)	(1,017,34)
	Number receiving service	733	781	768	767	768
	kwhs Billed	15,759	16,343	16,286	17,968	17,91
	Average revenue per consumer	1,958	1,908	1,950	2,037	2,00
	Average revenue per kwh billed	91	91	92	87	91
	Average kwh consumption per consumer	21.5	20.9	21.2	23	21.5

ANNUAL AND STATISTICAL REPORT
 MA ELECTRIC COOPERATIVE, . LUWU
 1 9 8 3
 "OPERATIONS REPORT"

MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1,565,220	1,657,280	1,687,160	1,681,940	2,272,845	2,086,705	2,158,985	
27,895	22,000	24,855	7,500	9,000	12,000	21,000	
1,593,115	1,679,280	1,712,015	1,689,440	2,281,845	2,098,705	2,179,985	
1,758,790	1,773,691	1,970,380	2,057,857	1,790,884	1,879,610	1,888,866	
11,450	-	4,550	318,944	290,000	290,000	302,500	
34,697	29,032	56,407	69,396	69,149	36,888	55,543	
1,804,937	1,802,723	2,031,337	2,446,197	2,150,033	2,206,498	2,246,909	
393,960	366,075	309,975	215,800	280,356	372,790	179,850	
59,898	44,553	52,603	335,844	238,099	139,560	104,058	
453,858	410,628	442,570	551,644	518,445	512,350	283,908	
216,617	107,437	206,687	86,724	173,149	206,330	231,763	
919,770	910,970	914,470	545,706	515,733	631,466	425,392	
-	-	-	-	15,400	15,400	-	
3,395,182	3,311,758	3,595,072	3,630,331	3,372,760	3,572,044	3,187,972	
1,802,067)	(1,632,478)	(1,803,057)	(1,940,891)	(1,090,915)	(1,473,339)	(1,007,987)	
839,790	839,790	839,790	839,790	839,790	839,790	839,790	
2,641,857)	(2,472,268)	(2,722,847)	(2,790,681)	(1,930,705)	(2,313,129)	(1,847,777)	
200,982	200,982	200,982	200,982	502,457	200,982	200,982	
2,842,839)	(2,673,250)	(2,923,829)	(2,981,663)	(2,433,162)	(2,514,111)	(2,048,759)	
599,491	-	56,122	-	-	-	684,975	
29,340	29,340	29,340	29,340	29,340	29,340	29,340	
628,831	29,340	85,462	29,340	29,340	29,340	714,315	
661,338	-	62,595	-	-	-	446,808	
46,150	-	162,365	126,888	160,839	116,491	56,800	
162,365	162,365	-	-	-	-	108,952	
869,853	162,365	224,960	126,888	160,839	116,491	612,560	
(241,022)	(133,025)	(139,498)	(97,548)	(131,499)	(87,151)	101,755	
3,083,861)	(2,806,275)	(3,063,327)	(3,079,211)	(2,564,661)	(2,601,252)	(1,947,004)	
2,066,550	3,453,500	3,491,800	4,007,578	3,624,000	3,923,500	1,971,500	
1,017,311)	647,225	431,473	928,367	1,259,339	1,322,238	24,496	
768	780	804	802	802	798	843	
17,983	19,982	20,069	19,866	17,881	16,549	17,724	
2,038	2,125	2,098	2,097.18	2,834	2,615	2,561	
87	83	84	84.24	127	126	122	
23	26	25	21.90	22	21	21	

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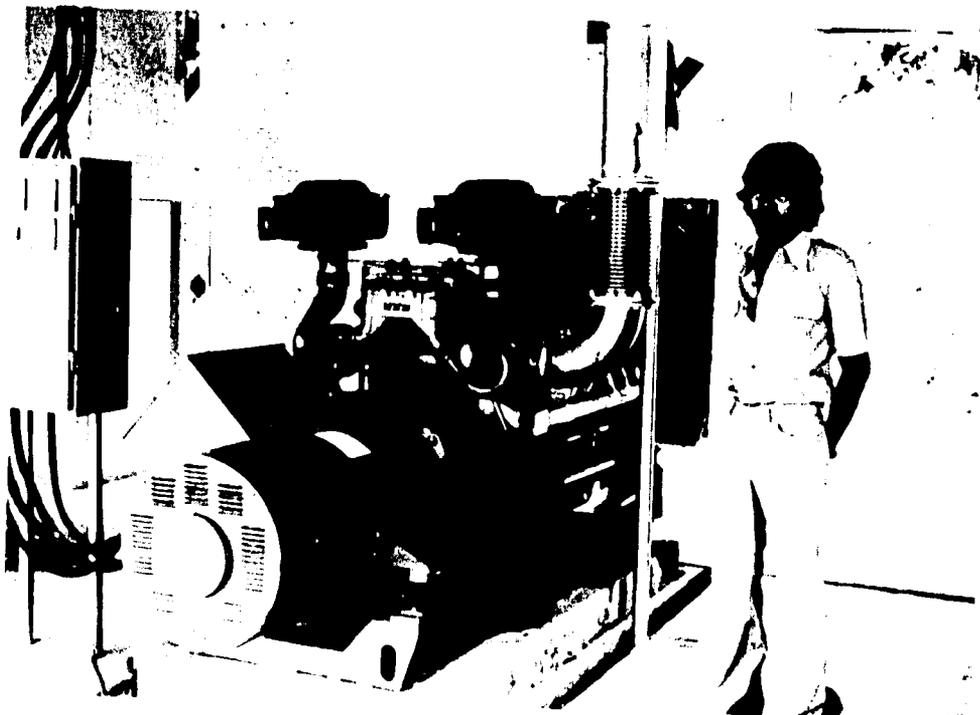
STATISTICAL INFORMATION
REC'S, NOVEMBER 1 9 8 3

		LAMPUNG	LOMBOK	LUWU
1	No. of consumers billed	3,046	1,710	843
2	Total billing (Rp.)	7,395,567	5,200,580	2,158,985
3	Total Kwh Billed	68,871	40,455	17,724
4	Average revenue per consumer (Rp.)	2,428	3,041	2,561
5A	Average no. Kwh's/consumer	23	24	21
B	Average revenue per Kwh billed (Rp.)	107	129	122
6	Kwh's generated	82,325	57,564	23,789
7	Liters diesel fuel	37,473	22,574	12,050
8	Kwh/liter fuel	2.2	2.55	1.97
9	Cost of diesel fuel (Rp.)	5,508,531	3,305,962	-
10	Cost of lube-oil (Rp.)	253,175	105,825	-
11	Total fuel cost (Rp.)	5,761,706	3,411,787	1,888,866
12A	Fuel cost/Kwh generated (Rp.)	70	59	79
B	Fuel cost/Kwh billed (Rp.)	84	84	107
13	% system losses	16 %	30 %	25 %
14	Peak KW demand	330	300	98
15	No. of idle services (accumulative)	90	66	
16	No. of temporary disconnects	277	469	4
17	Total no. disconnected	367	535	
18	No. members signed-up	3,698	4,065	861
19	No. houses wired	3,354	3,431	
20	Collection efficiency, energy sales (November)	105 %	98.5 %	96 %

LAMPUNG REC ACTIVITIES

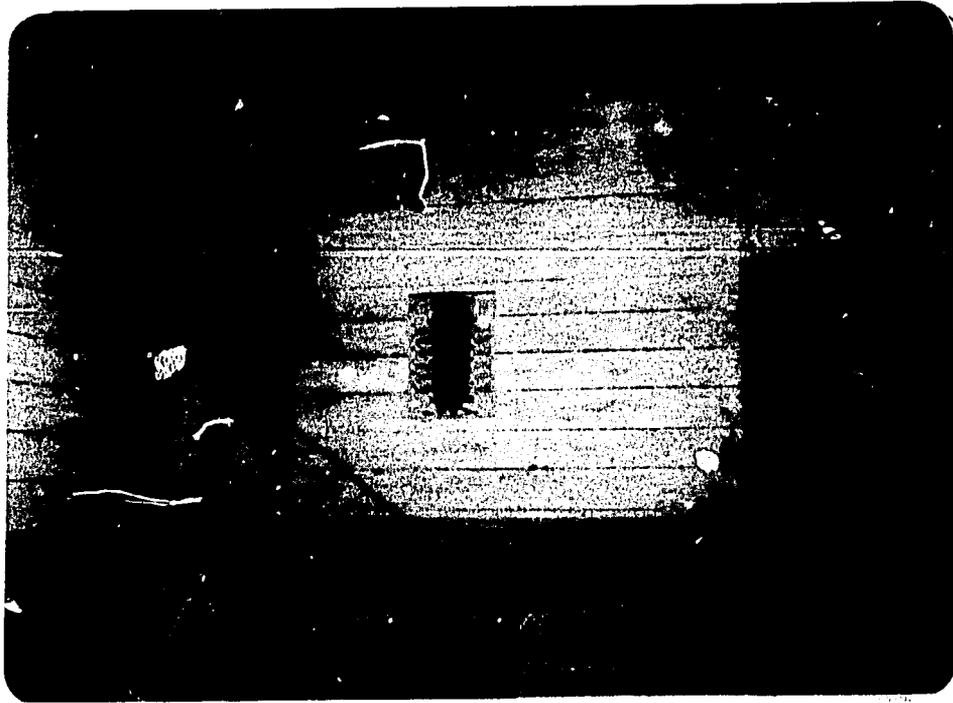


The new power-plant constructed at the second demonstration project area in the Lampung REC service area, 1983.



A Lampung REC power-plant operator and a new 225 Kw gen-set procured by the Lampung REC, and installed in the power-plant shown in the top picture.

LAMPUNG REC ACTIVITIES



Housewiring in progress by contract-electricians



The final step in construction activities ---- installation of the "cash-register" ----- the Kwh meter.

LOMBOK REC ACTIVITIES

Here they come --- the most important ingredient in an overhead distribution line --- the poles.



Pending completion of the permanent warehouse, construction material items are protected by various means.

LOMBOK REC ACTIVITIES

Employee of the contractor,
who is constructing the
distribution-system,
"framing" a pole in the air
(adding hardware &
insulators) -----
a ladder lineman.



The "turning becomes harder as the hole gets deeper"
---- an anchor hole being dug by two workmen, with
a lot of supervisors.

LUWU REC ACTIVITIES

Headquarters building under construction, mid 1983, to be ready for occupancy in the first quarter of 1984. --



Unloading transformers, which were procured through the USAID loan, without the assistance of mechanical or hydraulic lifting equipment.

TRAINING ACTIVITIES

Lombok and Luwu participants in a training course held at PDO-RE Jakarta, travelled to the Lampung REC to view electrical installations.



NRECA Advisor, Louie Sansing, briefed ten REC and PDO-RE employees prior to their departure to the Philippines on an observation/training trip.

PERSON-MONTHS BY POSITION, NRECA CONSULTANT TEAM

(Contract as amended March 14, 1983)

POSITION	PRESENTLY FILLED BY	CONTRACT PERSON-MONTHS	EXPENDED THIS PERIOD	EXPENDED THROUGH DEC.'83		PERSON-MONTHS REMAINING	PERCENT OF CONTRACT EXPENDED
				PLN	PDO		
Team Leader (Administrative Finance Officer)	Ray Shoff	69	-	17.5	46.5	5	93 %
Senior RE Specialist/ Training Officer	Louie Sansing	63	-	7	53	3	95 %
**Senior RE Specialist/ PLN - Advisor REC - Advisor	Sam Adkins	53	-	49	4	-	100 %
**RE Specialist Luwu-project Advisor	John DeFoor	47	0	-	47	-	100 %
*Administrative Officer	-	33	0	5.5	27.5	-	100 %
*Lombok Advisor	-	42	0	-	42	-	100 %
*Lampung Advisor	-	46	0	.5	45.5	-	100 %
Short Term Advisors	-	19	0	14	3	2	89 %
Consultants	-	8	0	7.5	.5	-	100 %
		380	8	101	269	10	97 %

* Positions vacated, July 31, 1982

** Position vacated February 2, 1983

*** Position vacated July 31, 1983

Summary of Expenditures

National Rural Electrification Cooperative Association
 1800 Massachusetts Ave., N.W.
 Washington, D.C. 20036

AID/ASIA - C 1347
 Date: October, 1983
 Period of contract: 8/25/78 - 6/30/84

	Budget	Total Expense To Date	Prior Billings	Current Billings
Salaries - Field	\$ 1,205,000	\$ 1,177,461.62	\$ 1,169,185.44	\$ 8,276.18
Salaries - Home	216,000	205,511.80	204,076.82	1,434.98
Fringe Benefits	448,000	438,760.04	436,917.34	1,842.70
Consultant Fees	34,706	33,906.25	33,906.25	-
Allowances	418,000	364,588.21	363,435.70	1,152.51
Travel and Transportation	396,470	375,814.16	369,958.77	5,855.39
Other Direct Costs	148,824	109,549.27	109,482.44	66.83
Overhead	603,000	586,073.80	581,995.02	4,078.78
Equipment and Materials	30,000	20,739.58	20,739.58	-
TOTAL	\$ 3,500,000	\$ 3,312,404.73	\$ 3,289,697.36	\$ 22,707.37