





POWER SECTOR EXPANSION PROJECT



ADB LOAN N±2368 ADB GRANT N±0087 JBIC LOAN N±8232 AusAID GRANT N±0101





Quarterly Progress Report No. 12 1st Quarter 2011 (Jan - Mar 2011)



PROJECT MANAGEMENT UNIT



Table of Acronyms

ADB Asian Development Bank

ADR Arthur D Riley

APM Acting Project Manager

AusAID Australian Agency for International Development

CEO Chief Executive Officer

CSO Community Service Obligation

DSR Debt-service Ratio
EA Executing Agency

EARF Environmental Assessment and Review Framework

EBI Egis Bceom International
EPC Electric Power Corporation
ESU Environment and Social Unit

GoS Government of Samoa IA Implementing Agency

ICB International Competitive Bidding
IEE Initial Environmental Examination

IRR Internal Rate of Return

JBIC Japan Bank for International Cooperation
JICA Japan International Cooperation Agency

km kilometre kV kilo Volt

kVA kilo Volt-Ampere

kW Kilo Watt

LARF Land Acquisition and Resettlement Framework

LARSF Land Acquisition and Resettlement Screening Form

MCIL Ministry of Commerce, Industry and Labour

MNRE Ministry of Natural Resource and Environment

MOF Ministry of Finance

MOU Memorandum of Understanding

MWCSD Ministry of Women Community and Social Development

NCB National Competitive Bidding

NPV Net Present Value

PEAR Preliminary Environmental Assessment Report

PM Project Manager

PMC Project Management Committee

PMU Project Management Unit

PPMS Project Performance Monitoring System

PSC Project Steering Committee

PUMA Planning & Urban Management Agency

REA Rapid Environmental Assessment

SLC Samoa Land Corporation

SMEC Snowy Mountain Engineering Consultant

STEC Samoa Trust Estate Corporation

SWA Samoa Water Authority
TA Technical Assistance

TER Tender Evaluation Report

USD American Currency

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1. EXECUTIVE SUMMARY

This is the Quarterly Progress Report No. 12 and it covers the project activities and progress for the 1st Quarter 2011 from January 1 to March 31, 2011.

The purpose of this report is to provide quarterly progress as well as any issues confronting the Project Management Unit in the implementation of the subprojects under the Samoa Power Sector Expansion Project to enable the EPC Board of Directors, Project Steering Committee, Project Management Committee and Asian Development Bank to monitor the project progress, become aware of the issues and assess whether the immediate project objectives will be met.

The Government of Samoa received a loan of USD26.60 million and a grant of USD15.40 million from the Asian Development Bank (ADB), a loan of USD38.00 from JICA and a grant of USD8.00 million through the AusAID and the Electric Power Corporation contributes USD12.00 million making up the total cost of USD100.00 million for the Samoa Power Sector Expansion Project. The loan was approved on December 11, 2007 and became effective on June 16, 2008.

There was a full ADB/JICA/AusAid Mission this Quarter on February. They ran through status of each subproject. There were extensive discussions between Mission Team and PSEP PMU and EPC as well as Attorney General. Main topic of discussion is Fiaga New Diesel Power Station contract with Bluebird Ah Lal JV in association with Woods Pacific Ltd and Mitsubishi Heavy Industries.

Main issues Mission focused on were:

- (i) Contractor's joint venture legal structure and whether contract should have been awarded to Bluebird and its partners.
- (ii) Whether Contractor has the financial resources to continue the contract given that ADB disapproved their request through Samoan Government for part of payments be made in other currencies knowing that 60% of payment will be in Japanese Yen.
- (iii) ADB considering as one of 3 options to terminate Bluebird's contract and re-award contract to Caterpillar, 2nd lowest complying bid but with a price increase of SAT\$11 million and not including warranty costs. Other two options considered by ADB are: letting BB continuing with contract and splitting contract into two parts, where BB will construct powerhouse and Mitsubishi Heavy Industries supply and install generators.

ADB is arranging a review of this and all subprojects in Power Sector Expansion Project by their Anti Corruption Review Committee in April. Visit has been postponed to June this year.

Bluebird never officially declared to EPC that they cannot perform the contract. BB continued to perform contract. There has been a lot of progress with preparation of design and manufacture of generators and all equipment. Factory of generators are scheduled on August this year, shipment of all equipment in September and arrival in Apia at end of October. This was the schedule until earthquake, tsunami and nuclear plant disaster. Because of the disaster, there are delays now in supplies of parts for the manufacture of the generators and associated equipment because of effect of disasters on factories that manufacture these supplies.

Implementation Consultant (IC) continued to fulfil its tasks and responsibilities under its Contract to assist PMU with implementation of various subprojects under the PSEP. Implementation Consultant also continued with the preparation of feasibility studies of hydro schemes in Upolu and Savaii. Study now focuses on five schemes; namely Faleseela, Tafitoala, Tiapapata and Fuluasou in Upolu and Faleata in Vailoa, Palauli, Savaii. IC completed feasibility study of Faleseela scheme; report was submitted to Project Manager for EPC review. Study continued with preparation of feasibility studies of the other 4 schemes. Based on decision by EPC General Manager and PMC to prepare detailed designs of the 3 selected schemes before bidding, IC submitted technical and cost proposals to Project Manager and EPC to do carry out detailed designs. EPC has not made a decision on proposals.

Construction of the upgrades of the Alaoa Feeder and Hospital Feeder Stage 1 from 6.6 to 22 KV by Bluebird Ah LAL JV are completed and the contract closed. Final payment of this contract for extra work has not been approved by ADB. ADB did disapproved it, but after discussions with ADB during their February Mission, they approved to reconsider it as a one time case due to misunderstanding between ADB and PMU/IC related to contract amount. PMU/IC considered contract as based on actual units completed. ADB on the other hand considered it is fixed sum contract.

Construction started on Hospital Feeder Upgrade Stage 2 to upgrade from 6.6kV to 22kV. Feeder will be underground from Tanugamanono power plant to Savalalo. Underground will supply power to the main hospital. Underground will increase security of power supply to critical facilities like hospital, government offices, commercial stores, hotels and parliament building. Contractor is Bluebird Ah LAL JV, a local contractor.

Construction started on Reconductoring of Upolu 22kV Powerlines. It includes 5 overhead distribution feeders and transmission lines. Contractor is GMA, a local contractor. Large conductors replaced smaller conductors. This will improve voltage and reduces line loss.

Construction started on Reconductoring of the Puapua to Asau 22kV Powerline in Savaii. Contractor is Tenix New Zealand.

Construction at Alaoa hydro continued. The electro/mechanical portion is carried out by Tenix New Zealand. Civil work portion is carried out by Silva Transport Ltd, a local contractor. Installation of new equipment starts in April. Completion is scheduled at end of April. Upgraded plant will increase amount of power from this hydro.

For Cash Power meter installation, 450 customers were installed with Cash Power during this first quarter. Of these, 176 are new electric installation and 274 converted from induction meters to Cash Power meters.

The 450 customers converted and installed with Prepayment Meters this Quarter brought the total number of customers converted to Cash Power under ADR's contract to 18,649 meters; this is 86.0% of the total 21,000 meters to be converted to Cash Power under A D Riley's contract. This left only 2,351 meters to be converted to complete ADR's contract. Project is ahead of schedule. Two of the subcontractors already completed installation of their allocations. Only one subcontractor is installing meters now. Total number of electric

customers with Cash Power meters at end of this Quarter is 23,415 or 63.75% of total number of electric meters of 36,580. Total number of electric customers is being verified. If this figure is correct, we may not achieve the 75% of total number of customers with the remaining number of Cash Power meters left to be installed by A D Riley. EPC may need to order 1,764 more Cash Power meters in order to meet the 75% requirement. But if total number of active meters is less than the figure above, we may achieve the 75% with remaining meters to be installed in A D Riley's contract. PMU will not make a decision to extend ADR's contract or order more meters until EPC completed reconciling of number of electric meters.

A total of 172 Cash Power meters were lowered this quarter. Total number of meters lowered so far is 3,474 or about 30% of total number of meters to be lowered. Subcontractors lowered these meters as they are converted to Cash Power. For new installations, consumer installed meters at 1.6 meters, so did not require subcontractors to lower them. EPC now refers all new installations to subcontractors to do. Lowering of meters is covered under Variation 1 to A D Riley's contract. Variation 1 has not been signed. Variation 1 only covers labor cost. Cost of bulk supply of materials to lower the meters has been paid under the loan. Subcontractors were supplied with these materials. Left over materials are returned to EPC.

Conversion of induction meters to Cash Power is continuing. All new installations are installed with Cash Power meters. Scratch cards are widely used now with more outlets set up by EPC in villages to sell these cards. This makes it easier for consumers to access to these places to buy top up tokens without coming to EPC offices in Salelologa or Apia. Until March this year, all new Cash Power installations were referred to subcontractors to install. It has gone back to EPC to install Cash Power in all new installations. One EPC inspector has been assigned to PMU to inspect Cash Power installations in Upolu. A separate inspector is engaged for Savaii inspection.

Taelefaga, Lalomauga (part of) and Samasoni hydro plants and Tanugamanono are now operating with new 22kV switchgear installed by Northpower. EPC issued a variation to Northpower to also supply 4 additional circuit breakers to replace the rest of the old switchgear in Lalomauga. Switchgear have not arrived.

Construction started on Alaoa hydro refurbishment. Tenix New Zealand on electro/mechanical and Silva Transport on civil work. Runner, generator and electrical switchgear arrived. Installer from Gilkes arrived in March to start installation. Commission of the plant is scheduled at end of April.

Refurbishment of Unit 9A is complete and generator is back into operation. Unit is running at its full load. Refurbishment was a success. EPC used refurbishment to train mechanics assigned to work with MAN engineers. This is the engine that had its crankshaft replaced with a new one. Old crankshaft was damaged when one of big end bearings failed. Unit 5A is still running. Overhaul of 5A will be carried out when Alaoa hydro is back into operation. This is expected in May this year. MAN will again carry out overhaul. This is part of their contract. Parts have arrived.

For Fiaga's Lot A for diesel power station subproject, Bluebird Ah LAL JV/Woods/MHI started construction on site. They have set up site offices and have equipment working on preparation of power plant site. Because EPC has not extended powerline to Fiaga site, EPC lend BB a standby generator to use. PPG, contractor for preparation of site was terminated. BB moved

in to complete earthwork. BB brought in geotechnical engineer from Tonkin and Taylor to check on site that PPG prepared. They discovered that compaction was not to their specification for power plant and generator foundation.

Contractor for Lot B of Fiaga new power plant is Northpower. Lot B covers electrical switchgear and transformers. Northpower started to submit to EPC PMU designs of electrical network and interconnection to the new generators and all systems of new power plant.

There are separate contracts for clearing and levelling of power plant site, and construction of the access road, security fence, and water line to the power plant site. Silva Transport Company Ltd is contracted to construct access road, waterline, and security fence, and PPG Engineering and Construction Ltd for levelling and preparation of power plant site. PPG Engineering contract was terminated due to lack of progress. BB Ah LAL JV took over completing of this work.

Construction of Hospital Feeder underground started. Contractor is Bluebird Ah LAL JV. Over 2000 meters of trenching and installation of electrical conduits is complete. Vaults arrived and BB started to install them. There have been a few land issues so far. EPC PMU resolved them to avoid stoppage of construction.

Construction started on reconductoring and repair of all 22kV powerlines in Upolu. Contractor is GMA. Five distribution feeders will be upgraded under this contract. They are; South Coast, West Coast, East Coast, Vaitele, and Lalomauga 33kV tie. Also the new Alaoa /Fale ole Fee transmission line will be constructed under this project to connect the Alaoa and Fale ole Fee hydro plants direct to Tanugamanono power plant instead of connecting to East Coast distribution feeder. Construction is for one year. Scope covers replacing of conductors to a large one, replace rotten poles and cross arms, and about relocate about 1.5 kilometers of the Lalomauga 33kV tie line to the side of the main east coast road for ease of access for maintenance; this part of the tie is currently running over the hills.

Materials and related equipment started to arrive for the Upolu Low Voltage System Improvements subproject. EPC will carry out construction in house when all materials arrive.

EPC PMU started to redo Feasibility Study of the Savaii new power plant in Vaiaata to replace the Salelologa power plant. New power plant will house two new medium speed base load machines. Three existing generators from Salelologa will be refurbished before shifting them to Vaiaata. Salelologa will be turned into a substation where feeder from Vaiaata will be redistributed into smaller feeders. This will greatly improve power reliability. With new power plant located in Vaiaata, a mini control center will be located in EPC's depot in Salelologa to monitor and control the system. A telecommunication link will be made from Upolu National Control Center to Vaiaata and mini control center in Salelologa so that system in Savaii can be monitored from EPC national control center in Fuluasou.

There was no activity in Vaipu pump assisted system subproject this Quarter. This project will put additional water in the Afulilo Dam to increase power generated from the Taelefaga power plant. Decision is waiting on outcome of investigation by SMEC where the dam is safe after the 2009 earthquake.

All 4 JICA volunteers with PMU completed their mission here. EPC submitted request to JICA for 3 more engineers. EPC is still waiting on JICA's reply. In meantime, EPC advertised for 3 experienced engineers to add to PMU team.

Latest status of items identified from previous and current quarterly reports:

- (i) Lowering of the first 10,500 meters converted to cash power without lowering Variation to A D Riley's contract to lower meters was approved after these meters were converted to Cash Power. ADR's base contract did not include lowering of meters. EPC is only lowering meters for consumers who requested them.
- (ii) Number of EPC active electric meters EPC is still working on this. This is not an easy task because EPC has to reconcile and inspect just about all electric meters shown on computer system to find out if they really exist. The number of active meters is needed to correctly determine the number of additional prepayment meters to be installed to achieve the 75% mark of total number of electric consumers on prepayment meters.
- (iii) Drilling a new water well in Fiaga for new power plant water supply No activity.
- (iv) Agreement between MOF and EPC to convert loan into grant No activity.

2. INTRODUCTION

This is the Quarterly Progress Report No. 12 and it covers the project activities and progress for the period from January to March 2011 (1st Quarter 2011 Progress Report).

The purpose of this report is to provide quarterly progress as well as any issues confronting the Project Management Unit in the implementation of the subprojects under the Samoa Power Sector Expansion Project to enable the EPC Board of Directors, Project Steering Committee, Project Management Committee, and Asian Development Bank to monitor the project progress and become aware of the issues and assess whether the immediate project objective will be met.

2.1 Vision

Provide reliable, affordable electricity for Samoa.

2.2 Mission

To provide quality electricity services in partnership with customers and stakeholders, be financially viable by adopting the most economical use of our resources and continued pursuit of technology and innovation to achieve excellent services, through technical, commercial and environmentally sound work practices.

2.3 Objectives

- (i) Improve the capacity of the sector to meet growing electricity demand and improve quality, reliability, and cost-effectiveness of power supply.
- (ii) Support and implement EPC's investment plan to meet growing demand.
- (iii) Improve the operational efficiency of EPC.
- (iv) Improve the financial performance of EPC.
- (v) Assist in establishing effective regulation of the power sector.
- (vi) Develop a demand-side management strategy to promote energy efficiency and conservation.
- (vii) Provide accurate and timely reports to Lending Agencies, Stakeholders, Sponsors and customers.
- (viii) Collaboratively work as a team with Lending Agencies, Stakeholders, Sponsors and customers to ensure timely delivery of the Power Sector Expansion Project.

2.4 Rationale

Reliable power supply is essential for enhancing the quality of life of all Samoans. Good performance of the power sector and reliable electricity services are vital for promoting private sector investments to diversify the economy and achieve sustainable economic growth. The performance of the power sector is increasingly becoming a hindrance to economic growth. High system losses and voltage drops, insufficient generating capacities for reserve, and insufficient maintenance resulting in equipment failure have resulted in poor reliability and quality of electricity supply. As a consequence, consumers are resorting to more expensive self-generation or loss of production and damage to electrical equipment.

2.5 Sector Loan Data

ADB Sector Loan Number: ADB Grant Number: JBIC Loan Number: AUSAID Grant Number:	2368 0087 8232 0101
Project Title:	Power Sector Expansion Project
Borrower:	The Government of Samoa
Executing Agency:	Ministry of Finance
Implementing Agency:	Electric Power Corporation
Lending Agencies:	Asian Development Bank (ADB)
	Japan Bank for International Cooperation
	(JBIC)
	Australian Agency for International
	Development (AusAID)

2.6 Key Loan and Asian Development Bank (ADB) Mission Dates

Loan Approval Date:	21 st November 2007
Date Loan Signed:	11 th December 2007
Date of Loan Effectiveness:	19 th June 2008
Loan Closing Date:	31 st December 2016
Last ADB Mission:	Last full ADB mission was in February 2011; ADB, JICA and Aussie Aid officers were present.

2.7 Estimated Project Cost and Financing Plan

Source	Total USD	%
Asian Development Bank ADF Loan:	26.61	26.61
Asian Development Bank ADF Grant:	15.39	15.39
Japan Bank for International Cooperation:	38.00	38.00
Government of Australia:	8.00	8.00
Electric Power Corporation:	12.00	12.00
Total	100.00	100.00

The estimated Project cost, as presented in the ADB RRP, is US\$100 million comprised of:

- US\$80 million as Investment Costs;
- US\$14.8 million as Contingencies; and
- US\$5.2 million as Financial Charges during Implementation.

The ADB will finance 26.61% under the ADF Loan, and 15.39% under the ADF Grant. This covers 42% of the total Project cost which is anticipated to cover Civil Works, Equipment Supply and Installation, and Consultant Services. JBIC/JICA will finance 38% of the total Project cost to cover the 42.2% of Civil Works and 47% of Equipment Supply and Installation. AusAID will finance 8% of the total Project cost to cover 35% of Land Acquisition and Resettlement and 15% of Equipment Supply and Installation. The Electric Power Corporation finances 12% of the total Project costs; which is USD\$12 million. EPC's contribution covers 65% for Land Acquisition and Resettlement cost, 10.3% of Civil Works, 5.1% of Consultant Service, and 20% on taxes and interest of loan repayment during implementation. All local taxes and import duty and interest is paid by EPC. Please refer to Appendix 1 for Revised Project Estimates.

3. PROJECT IMPLEMENTATION

3.1 Project Management Unit Staff Movement

PMU has 14 core staff, 4 for the materials store, and 2 for Cash Power meter inspector and an electrical apprentice. PMU also had 4 JICA volunteer engineers but they completed their missions in EPC. Of the 19 PMU employees, 5 are hired under 2 – 3 years contracts and 14 as EPC employees. Included in PMU 14 staff are 4 graduate engineers; which are three electrical and one civil. Two other graduate engineers (1 civil and 1 electrical) are assigned to PMU from EPC Renewable Section.

The 4 JICA engineers include: 1 civil engineer, 1 hydro civil engineer, 1 SCADA engineer, and 1 electrical/mechanical engineer. JICA civil engineer is returning home in beginning of January at end of his two year term here. There has not been any plan to replace him. The hydro, SCADA and electrical/mechanical engineers are on short term assignments. They visit here 3 times a year with 6 six week duration per visit. From time to time, hydrological staff with EPC Renewable Division is assigned to work with Implementation Consultants related to data collection for hydro scheme study. EPC PMU submitted a further request to JICA for two additional volunteers; one is a telecommunication engineer or technician experienced in fibre optic work and second volunteer is a machinist to assist with setting up a mechanical maintenance workshop in Fiaga new diesel power plant and training of EPC maintenance staff in use of equipment and tools to repair major components and require engine parts for overhaul.

ADB approved to hire three independent consulting engineers (1 civil, 1 generation and 1 power distribution) for PMU seeing that Implementation Consultant's contract is coming to an end in May. The advertisement for the 3 positions closed on March 31, 2011.

Fifteen (15) subprojects are now in construction phase concurrently. The status of construction of each subproject at end of 1st Quarter 2011:

- 1. Access road and water pipeline to Fiaga new power plant 70% completed.
- 2. Levelling and preparation of site for new power plant 80% completed.
- 3. Construction of security fence around Fiaga property 0% completed.

- 4. Upgrading of the Hospital Feeder to 22kv and undergrounding medium voltage cable from Tanugamanono power plant to Apia 20% completed.
- 5. Reconductoring of all 22kv overhead line feeders in Upolu 5% completed.
- 6. Refurbishment of the Alaoa hydro plant and civil work 50% completed.
- 7. Reconductoring of Puapua to Asau 22kv Overhead line 5% completed.
- 8. Refurbishment of the two generators in Tanugamanono.
- 9. Replacing of 22kv switchgear in Tanugamanono, Samasoni, Lalomauga and Taelefaga power stations 100% is completed except for additional switchgear for Lalomauga hydro plant.
- 10. Fiaga New Power Plant and Generators just started work on site, but manufacture of generators and associated equipment are about 50% completed. It is suspected that recent disaster in Japan has affected delivery of generators; this is yet to be confirmed by Contractor. Design is 50% complete.
- 11. Electrical switchgear no work on site, equipment are being manufactured
- 12. Construction of 33kv underground cables from Fiaga to Fuluasou substation and Tanugamanono.
- 13. 22kv underground cable from Fuluasou to Apia wharf 20% completed.
- 14. 33kv underground transmission line from Fiaga new power plant to Fuluasou substation and continuing to Tanugamanono power plant 20% completed.
- 15. Prepayment meters 90% completed

These require good experienced inspectors and construction managers to maintain quality of works.

Implementation Consultant always had two full time staff in EPC PMU office. They are the Team Leader / Construction Engineer and Administrative Assistant. IC's Generation / Distribution Engineer moved to live in Samoa in November and will now be working full time on the project. This greatly improved support provided by the IC Team to EPC. Other technical support is provided from IC's head office in France. IC's assistance to EPC has greatly improved. This is very timely with the start of design and construction of the 14 major subprojects.

Hydro feasibility study of 5 schemes by the Implementation Consultant is progressing well. The Study started in September. Study now focuses on preparation of estimate costs. IC will then submit an interim report in mid January recommending the top 3 schemes to be designed first for tendering. Because detailed design is not part of IC's Variation for the hydro feasibility studies, IC submitted a formal proposal to EPC to carry out detailed designs of 3 schemes. EPC wanted the hydro projects to be designed before bidding. IC plans to start on detailed designs immediately after EPC and ADB approves recommendation and IC proposal to perform this work.

3.2 PMU Actual Personnel Movement during this Quarter and Plan for next Quarter

1st QUARTER 2011 ACTUAL

NAME FINISH **DESIGNATION START COMMENTS START** FINISH Will be available for whole 2nd guarter Tologatā Tile Project Manager 1 Jan. 2011 01 Apr. 2011 31 Mar 201 30 Jun 2011 Tuimalealiifano 1 Jan. 2011 31 Mar 201 01 Apr. 2011 30 Jun 2011 Will be available for whole 2nd quarter Transmission& Taulealea **Aumalaga Tiotio** Distribution Engineer 1 Jan. 2011 01 Apr. 2011 30 Jun 2011 Will be available for whole 2nd quarter 31 Mar 201 **Tupai Mau Simanu** Generation Electrical Engineer Will be available for whole 2nd guarter Graduate Engineer -31 Mar 201 01 Apr. 2011 30 Jun 2011 **Nuulopa Pereira** 1 Jan. 2011 Power System Planner Will be available for whole 2nd quarter Faalepo Solofa **Project Accountant** 1 Jan. 2011 31 Mar 201 01 Apr. 2011 30 Jun 2011 Legal Environment 1 Jan. 2011 31 Mar 201 01 Apr. 2011 30 Jun 2011 Will be available for whole 2nd quarter **Mathew Lemisio** Advisor 1 Jan. 2011 Will be available for whole 2nd quarter Land Acquisition 31 Mar 201 01 Apr. 2011 30 Jun 2011 Seukeva Asi Tuuau Specialist Will be available for whole 2nd quarter **Environment Specialist** 1 Jan. 2011 31 Mar 201 01 Apr. 2011 30 Jun 2011 Seumalo Afele Faiilagi 01 Apr. 2011 PRCS 1 Jan. 2011 31 Mar 201 30 Jun 2011 Will be available for whole 2nd quarter Moetuasivi Asiono Raema Schuster Graduate Engineer – 1 Jan. 2011 31 Mar 201 01 Apr. 2011 30 Jun 2011 Will be available for whole 2nd quarter SCADA Electrical Inspector 1 Jan. 2011 31 Mar 201 01 Apr. 2011 30 Jun 2011 Will be available for whole 2nd quarter Sila 01 Apr. 2011 30 Jun 2011 Will be available for whole 2nd quarter Posi Moe Linesman 1 Jan. 2011 31 Mar 201 1 Jan. 2011 Will be available for whole 2nd quarter Elisapeta Collins 31 Mar 201 01 Apr. 2011 30 Jun 2011 Secretary

31 Mar 201

Yosuke Suesawa

Alfred Matatia

Muro

Mori

Tomita

1 Jan. 2011

Graduate Civil Engineer

JICA Civil Engineer

Civil engineer

JICA Volunteer, Hydro

JICA SCADA Engineer

JICA Electrical Engineer

01 Apr. 2011

30 Jun 2011

Will be available for whole 2nd quarter

Completed his mission here.

Completed his mission here

Completed his mission here

Completed his mission here

2nd QUARTER 2011 PLAN

3.3 Implementation Consultants Personnel Movement

The Implementing Consultants continued to fulfil their tasks under the contract to assist EPC PMU. A total of 13 staff from IC worked on the Project during 1th Quarter, 2011. This included additional experts involved with hydro development feasibility study under Variation 2.

Table below provides number of days worked in each month and combined for 1st Quarter 2011 for each of IC personnel.

						Days worked
		Contract man-	Days work in	Days worked	Days work in	on 1st
No.	Team Members	month	Jan.	in Feb.	Mar.	Quarter
	Team Leader / Construction Engineer: PERELINI,					
1	Perelini	36	20	20	23	63
2	Generation Engineer: HEGERTY, Brendan	4	0	10	5	15
3	T&D Engineer: HEGERTY, Brendan	12	19	10	23	52
4	SCADA Engineer: PONS, Bernard	3	0	0	0	0
5	Environment Specialist: ADAMSON, Charles	4	0	0	0	0
6	Resettlement Specialist: WILLIAMS, Jean	4	0	0	0	0
7	Administrative Assistant: POE, Penelope	36	18	20	23	61
8	Hydro Expert/Coordinator: GIRAUD, Dominique	4.3	0	9	14	23
9	Hydro Expert: GINON, Laetitia	2.87	0	1	6	7
10	Hydologist 1: DAVAL, Emmanuel	2.75	0	0	0	0
11	Hydrologist 2: PYRON, Nelly	2	0	0	0	0
12	Civil Engineer (Int): GUERPILLON, Herve	3.58	3	6	6	15
13	Civil Engineer (National); PERELINI, Peri T	4.75	5	5	10	20
14	Environment Specialis (National): SESEGA, Sam	3.17	5	11	10	26
15	Land Resettlement (National): SESEGA, Sam	3.17	5	11	10	26
16	Hydro Electrical Engineer: HEGERTY, Brendan	2.5	0	0	0	0

Implementation Consultant had 3 full time staff in office here during this Quarter when TD/Generation Engineer moved to live in Apia. The 3 full time staff are; Team Leader, Transmission Distribution & Generation Engineer and Administrative Assistant. To maintain continuity of work by IC, Team Leader worked on preparation and review feasibility studies, tender documents, evaluation reports, monthly and quarterly reports, and plans subprojects assisted by Generation/Distribution Engineer.

There are no major outstanding environmental issues related to any of the original subprojects. During construction, EPC's local environmental staff will handle all environmental matters. IC is using a local firm for environmental and resettlement part of hydro study.

IC's Project Director, Dominique Giraud, continued to monitor the project from IC's home office in France and provided technical and management assistance as needed. He is also head coordinator and a hydro expert for the hydro study. He visited here during this Quarter to finalize Feasibility Study report of Faleseela hydro scheme and discussed IC's overall contract as original contract ends in May. IC contract will be extended to cover limited tasks.

Team Leader/Construction Engineer of IC continued to assist PMU Project Manager with various activities; such as preparation of monthly and quarterly reports, preparation of Cabinet and EPC Board submission, in addition to planning, and preparation of feasibility studies, tendering documents of various generation and power distribution subprojects and evaluation of bids.

IC's Variation 2 for hydro feasibility study five hydro schemes continued this Quarter. IC hydro study team continued with preparation of Feasibility Reports and estimate costs of the 5 schemes. Estimate costs report was submitted to EPC PMU Project Manager. IC also submitted technical and cost proposal for Variation 3 to prepare detail designs of 3 schemes. One of the key components in the Study is the introduction of a proposal for a *Business Model* for acquisition of land for hydro projects. This Model includes land owners / village in a business entity formed to plan, develop and operate the hydro scheme with land owners / village involved in decision making and sharing of profit from sale of electricity to EPC now or a private electricity retailing company.

3.4 Egis Bceom International Personnel Remaining Man-months at end of 1st Quarter, 2011

			Remaining man-
		Contract man-	months at end
No.	Team Members	month	of Q1 2011
1	Team Leader: PERELINI, Perelini	36	2
2	Generation Engineer: HEGERTY, Brendan	4	0
3	T&D Engineer: HEGERTY, Brendan	12	4
4	SCADA Engineer: PONS, Bernard	3	0
5	Environment Specialist: ADAMSON, Charles	4	0
6	Resettlement Specialist: WILLIAMS, Jean	4	0
7	Administrative Assistant: POE, Penelope	36	2
8	Hydro Expert/Coordinator: GIRAUD, Dominique	4.3	1.24
9	Hydro Expert: GINON, Laetitia	2.87	0.4
10	Hydologist 1: DAVAL, Emmanuel	2.75	0
11	Hydrologist 2: PYRON, Nelly	2	0.01
12	Civil Engineer (Int): GUERPILLON, Herve	3.58	0.01
13	Civil Engineer (National); PERELINI, Peri T	4.75	1.56
14	Environment Specialis (National): SESEGA, Sam	3.17	0.49
15	Land Resettlement (National): SESEGA, Sam	3.17	0.49

3.5 - Egis Bceom International Personnel Movement during this Quarter and Plan for next Quarter

NAME	DESIGNATION	START	FINISH	START	FINISH	COMMENTS
Perelini S. Perelini	Contract/Construction Engineer (Team Leader)	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Available for whole of 2nd Quarter 2011. Prepared feasibility studies, tenders, evaluation reports, and reviewed same various subprojects which included Fiaga new diesel power station, access road to new Fiaga power station; 33 kV transmission from Fiaga to Fuluasou and 22 kV feeder from Fuluasou to Lepea and Fiaga diesel power station; 22 kV underground from Fuluasou substation to Apia wharf; prepared monthly and quarterly report. Assist prepared board papers and attended EPC Board, Project Steering Committee and Project Management Committee meetings with Project Manager to present status reports of the Project. Coordinator of Fiaga power plant subproject now under construction and assisted with managing of construction of other subprojects.
Dominique Giraud	Power System Planner	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	He continues to monitor project and has 1.24 man-mnths left in his contract to complete hydro feasibility study reports and tenders of 3 schemes.
Brendan Hegerty	Transmission and Distribution Engineer/	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	He moved to live in Apia. He was available full time on job.
Brendan Hegerty	Generation Engineer	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	At end of 1 st Quarter, he has 4 man months left in his contract to provide technical assistances to all

						subprojects.
Charles	Charles Adamson	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	He completed his involvement with
Adamson						project.
NAME	DESIGNATION	START	FINISH	START	FINISH	COMMENTS
Jean Williams	Resettlement Spec	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	She completed her involvement with project. PMU is handling all land resettlement issues.
Bernard Pons	SCADA Engineer	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	He completed his involvement with project.
Penelope Poe	Administrator	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	She is available to provide administrative assistance to IC and PMU.
Dominique Giraud	Hydro Expert & Coordinator	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Coordinated project from home office. He had a visit to Apia for one week to finalize Feasibility study of one of hydro scheme and discuss IC contract extension past May 2011.
Emmanual Daval	Hydrologist	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Worked on hydro study
Nelly Pyron	Hydrologist	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Worked on hydro study
Herve Guerpillon	International Civil Engineer	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Worked on hydro study
Peri Perelini	National Civil Engineer	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Worked on hydro study
Sam Sesega	National Environmentalist	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Worked on hydro study
Sam Sesega	National Resettlement Specialist	01 Jan 2011	31 Mar. 2011	01 Apr. 11	30 Jun. 2011	Worked on hydro study

3.6 Implementation Progress

All implementation activities or tasks are reflected in measuring implementation progress against the subprojects implementation schedules and referred to as "project progress". All pre-implementation activities or tasks are considered in calculating subproject implementation progress. These activities or tasks include preparation of the Subproject Outline, Feasibility Study, Rapid Environmental Assessment, Initial Environmental Examination, Screening for Land Acquisition and Resettlement, Tender documents, Evaluation of tenders and preparation of awards and contracts. Each task in the implementation schedule is weighted according to its overall contribution (using time as a reference) to progress of subproject implementation. These weights are used to calculate the percentage of subproject progress along the entire time span of the project. This is to provide a holistic view of the pace on implementation. Due to the magnitude of the Power Sector Expansion Project and the number of its subprojects, it is not practical to list all the tasks or activities. Therefore only milestones are listed for the purpose of simplicity of subprojects progress but more details can be obtained from the Project Schedule Gantt Chart of each respective subproject. Please refer to Appendix 2 for Project Monitoring.

A. Core Subprojects:

1. Hospital Feeder Upgrading Project Stage 1

Construction was completed in 2010. Making final payment for additional work is still outstanding. ADB disapproved payment because PMU did not get prior approval. PMU argued that their understanding is that contract is a unit cost contract based on actual units built by contractor. ADB in its Mission in February agreed to approve payment as a one case due to misunderstanding between their office and PMU related to contract cost. Final payment still has not been made to Contract at end of 1st Quarter.

2. Single and Three-Phase Prepayment Metering (PPM)

A total of 450 prepayment meters were installed by A D Riley's subcontractors during this Quarter. This number of prepayment meters is made up of 176 new installations and 274 customers converted from induction to prepayment meters. This brought the total number of meters installed under this contract at end of the 1st Quarter is 18,649; which is 86.8% of 21,000 meters to be converted under this Contract in AD Riley Contract.

The total overall number of customers with prepayment meters at end of March 2011 is 23,415; which is 63.75% of total number of EPC electric customers of 36,584.

All new meter installations of prepayment meters were referred to A D Riley's subcontractors to install until new installations were referred back to EPC in March. ADR continue with meter conversions. EPC carry out pre-inspection and now installing new meters. Only one subcontractor is now installation PPMs for ADR.

Besides converting to PPMs, contractor also lowered the meters. 172 meters were lowered to 1.6 meters this Quarter. This is carried out under Variation 1 to A D Riley's contract.

Here are some remaining and outstanding matters with prepayment meters:

- (i) Lowering of 10,500 meters not covered under A D Riley's Variation 2 Contract; these are meters converted to Cash Power before approval of Variation 2. PMU/IC submitted costs to ADB to lower these meters. Approval by ADB is pending.
- (ii) Increasing number of defective meters with blank screens. Major problem is that these blank screen meters will continue to supply power without recharging with credits. THIS IS SERIOUS. Matter has been brought up to ADR but they have not come up with a technical solution other than replacing them with new ones. Problem is the possible large number of defective meters out there resulting in EPC losses. Until ADR come up with a solution, EPC must monitor monthly purchases of tokens by consumers on prepayment meters to find those who have not made any purchases of recharge tokens and then follow up to find out if meters are defective.
- (iii) Getting true count of active meters.
- (iv) Need to buy and install more Cash Power meters after the 21,000 are installed, in order for EPC to achieve 75% of its customers on Cash Power. It is estimated that we would need 1,453 meters purchased to meet the 75% requirement. PMU requested cost of 2000 single phase meters and 100 three phase meters.
- (v) Meters originally installed by EPC without weatherproofed boxes and need to reinstall inside these boxes. This is not part of A D Riley's contract. There are cases of ADR installed meters not installed inside the weatherproof boxes. This will shorten lives of these meters now that they are lowered and more exposed to weather and rain.

All new meter installations with single phase meters are fitted with prepayment meters. There are customers that are impractical to be on Cash Power meters as long as they are stay current with their electric bills. This includes Government, some church organizations, and large businesses. The most important goal is that customers pay their bills on time whether they are on prepayment or induction meters. EPC reports showed a marked improvement in collection of arrears since introduction of prepayment meters under this project.

At end of this 1st Quarter 2011, there is 2,351 meters remained to be installed to complete ADR's contract.

Table below shows meters installed by each sub-contractor during the 4th 2010 and 1st Quarters 2011:

No.	Subcontractors	Meters installed in Oct. 2010	Meters installed in Nov. 2010	Meters installed in Dec. 2010	Meters installed in Jan 2011	Meters installed in Feb 2011	Meters installed in Mar 2011	
1	All Electrical	24	0	0	0	0	0	
2	McLean Electrical	236	278	235	192	131	127	
3	Telecom. Tronics Ltd.	7	0	0	0	0	0	
Tot	al meters installed each month	267	278	235	192	131	127	

Breakdown below are meter lowered during 4th Quarter 2010 and 1st Quarter 2011:

Categories	Cable length	Q4 – 2010 Quantity	Q1 - 2011 Quantity
1	0-5 meters	197	134
2	5-10 meters	29	36
3	> 10 meters	5	2
4	no cable needed	208	0
	Total meters lowered	438	172

Included in meter count above are meters that were lowered during maintenance.

Only 3,474 meters or 18.6% have been lowered of total number of meters converted to Cash Power. So there is still a lot of meters to be lowered. Beside ADR's subcontractor lowering meters as they convert them, EPC is lowering meters already converted on request by consumers. All new meters are installed at 1.6 meters.

Variation 1 in ADR's contract covered lowering of meters. Cost of Variation 1 is based on unit prices of materials and labour involved. ADR supplied materials bulk to its three subcontractors and billed EPC accordingly. Invoices of bulk materials supplied to lower meters were paid in full under the loan. Labour costs were paid in accordance with unit costs as agreed on in Variation 1.

Here are unit prices for labour and materials under Variation 1 of A. D. Riley's contract to lower meters:

Categories	Length of Cables Meters	Labor Unit Cost Samoan Tala
1	0 – 5m	\$20.00
2	5 – 10m	\$38.00
3	Over 10m	\$55.00
4	Attend meter recently installed and lower to 1.6m; only by request by PMU.	\$89.00

All materials required to lower meters are supplied by ADR and paid for my EPC as lump sum.

B. Candidate Subprojects:

1. Upolu

a. Generation

(i). Tanugamanono Power Station Noise & Emission Control Work started on Feasibility study; not finished.

(ii). Refurbishment of Alaoa Hydro Power Station

Construction and installation started on electro-mechanical contract. Generating equipment and electrical switchgear arrived. Installer from Gilkes arrived to start installation.

Silva Transport Company continued with civil work. Silt has been cleared from headpond, started on clearing silt, logs, and rocks inside east headrace canal, completed building of walkway next to penstock, and started sandblasting and undercoating of pipe.

(iii). Fiaga Diesel Power Station

Powerhouse and Generators(Lot A)

Bluebird Ah LAL JV had mobilized on site setting up site offices. They started on earthwork to prepare site for powerhouse.

Design and preparation of construction drawings is 50% complete. Construction is due to start in June.

Manufacture of generators and associated equipment by MHI is 50% complete. Factory testing is schedule in August, shipment in September and equipment arriving at end of October.

Fiaga station electrical switchgear (Lot B)

Northpower, contractor, finalized detailed design of electrical switchgear and installation. Variation 1 for changes in the main contract has been signed.

Fiaga access road and water pipeline

Contractor, Silva Transport Ltd, completed 60% of civil works; completed culvert, starting on base course of some sections of road, continued with cutting, filling and compaction, and started trenching for installation of water pipeline. Order materials for fence but have not arrived; due to arrive in April. Time extension was approved due to bad weather and delay in getting fill materials from PPG contract at the site of power plant.

Levelling and preparation of power plant site

Contract with PPG Engineering has been terminated due to lack of equipment and supervision which was greatly delaying work. They were delaying mobilization of Bluebird JV to take control of site to start their contract.

Water source

Investigation to find where to drill a new water well was put on hold. There are not conclusive information that will indicate finding groundwater on power plant site or nearby. It was decided to rely on rainwater collected on powerhouse roof and feed off Samoa Water Authority system when new 150mm diameter pipeline is completed.

EPC will construct underground cable to feed power to site. Materials and associated materials will be purchased.

(iv) Refurbishment of Generators at Tanugamanono Power Plant

MAN, contractor, completed refurbishment of first generator, Unit 9A. Generator is back in operation. Start on second generator, Unit 5A, is deferred until Alaoa Hydro is back in operation in May.

(v) Replacement of 22kv switchgear in Taelefaga, Lalomauga, and Samasoni hydro plants and Tanugamanono power plant

Northpower, completed construction, installation, and commission of new switchgear. Equipment is operational now. There is a variation to replace rest of 22kv equipment in Lalomauga hydro plant. New switchgear has not arrived.

b. Transmission

(i). Upgrade of Alaoa 6.6kV Transmission Line to 22kV

This project was completed in 2010. It was combined with Hospital Feeder Upgrade Stage 1. Final payment for extra work still outstanding. ADB did not approve payment due to some procedural matter. ADB during February Mission agreed to approve payment as a one case only. Final payment is still outstanding at end of this Quarter.

(ii). 33 kV Underground Cable from Fiaga Power Station to Fuluasou Substation

Contracts were awarded in this Quarter for the supply materials and related equipment. EPC will perform the work. Construction will start when materials and equipment arrive. EPC crew involved in this will undergo training in New Zealand. EPC will also hire cable splicers from overseas to work with crew.

(iii). Hospital Feeder Upgrading Stage 2

This subproject upgrades the rest of Hospital Feeder from 6.6 to 22 kV and underground the HV cables from Tanugamanono power plant to Savalalo. This includes improvement of power supply to the National Health Service and TTMN hospital. Construction has started. Contractor is Bluebird Ah LAL JV. Contract includes pulling and termination of cables, change out of pole structures from 6.6 to 22kv and changing of transformers. They started construction with underground to hospital along Salenesa, and Ifiifi and Falealili Roads. Combined with this Contract is trenching and installation of electrical conduits for section of the 33kv underground transmission line and Samasoni hydro transmission line along Falealili Road to Tanugamanono. 20% of trenching and installation of conduits is completed at end of this Quarter.

(iv) 22kV Fuluasou Substation

Bid closed for design built contract of the substation. Evaluation report is finalized for submission to ADB for review and approval. Four bids were received. Contract includes; all 415volts, 11, 22, and 33kv electrical switchgear, substation transformers, two story building,

paved road and civil work, undergrounding of incoming and outgoing cables and connection to feeders and transmission lines, standby generator, National Control Center and related furniture and equipment, security fence, and outdoor lights.

- (v). Upolu Low Voltage Network Improvements
- Materials for this subproject are currently on order. EPC will do construction.
- (vi). Fuluasou Substation to Apia Wharf Area 22kV Underground Cable Contracts have been awarded for supply of materials. EPC will carry out work. Part of electrical conduits for this project have been installed under construction of Vaitele Road. This project will underground all high voltage powerlines along Vaitele Road and then remove these high voltage powerlines. All cables to consumers along side of Vaitele Road will be
- (vii). Fuluasou Substation to Leulumoega via Vaigaga 22kV Underground Cable This subproject is removed from Project. All powerlines will be install overhead.
- (viii). 22kV Overhead Conductor Upgrading Program

The feeders involved in this project are; West Coast, Lalomauga 33 KV line, East Coast, South Coast, Vaitele, Beach Road, and Alaoa transmission line. All materials are here.

Construction started. Contractor is GMA. They completed over 10 shutdowns already. Two crews of 10 men each are currently being used. More men is needed to set up another crew. There is lack of equipment. Contractor is getting more equipment. Contractor is also getting a power distribution and transmission engineer or experienced line supervisor to supervise construction.

2. Savaii

a. Generation

installed underground.

(i) Hydropower Scheme

Since disapproval by the village of Sili of developing a hydro scheme in their village, hydro scheme subproject in Savaii has been combined under a new subproject, *Hydro Development*. This includes schemes in Upolu. Five schemes were selected for feasibility study. They are: Faleata in Vailoa Savaii, and Faleseela, Tafitoala, Fuluasou, and Tiapapata in Upolu. There is only one scheme in Savaii under this Study.

b. Distribution

(i). Puapua-Asau 22kV Distribution Line Reconductoring

Tenix New Zealand, contractor, finally started construction. They hired a local subcontractor. Tenix is yet to provide a construction supervisor for construction. Supervisor must be an engineer or an experienced linemen. No body is doing this now and PMU already voiced their concern to Tenix. It is a requirement of contract.

(ii). Power Factor (PF)

This project is complete. There is no more activity required done on this.

(iii). Low Voltage Network Improvement Program in Savaii Feasibility study is being prepared.

3. Measurement Equipment:

(i). Steam Flow Gauging Equipment

Installation of stream flow gauges is complete. EPC renewable department and MNRE continue to collect data, carry out maintenance and monitor these gauges monthly.

(ii). HV Testing Equipment

PMU continued to use this equipment for their work.

SCADA

ADB approved tender document. Tender is being advertised in ADB website, EPC website and local newspaper.

New Subprojects

Listed as follows are new subprojects:

(i). Public Dissemination

Public awareness and dissemination and consultations are continuing for all subprojects.

(ii). Vending System Expansion

Scratch card system is fully operational. Cash Power consumers buy top up cards from various shops in villages in both Upolu and Savaii.

(iii). Power System Planning Software

EPC continued to use software to check on system voltage and feeder loads.

(iv). Refurbishment of Salelologa Power Station

EPC's Salelologa power plant will not be refurbished. Instead, a new 8 MW diesel power plant will be built in Vaiaata to replace the Salelologa power plant. EPC will still main a depot in Salelologa for its power distribution, customer service and administration office. With the power plant located in Vaiaata, it is planned that a Mini Control Center will be set up in Salelologa to monitor the network. PMU submitted Feasibility study and Initial Environmental Examination report to ADB in December for review.

Planning of the new power plant tender has started. This will require a topographic survey of the entire property. Survey has started.

(v). Refurbishment of Taelefaga and other power plant 22kV Switchgears

Contract is completed. Plants are now operating with new switchgear. There are 2 outstanding issues under this contract. One is correcting setting of protective relays from load flow and protection study. Feeders are still tripping unnecessarily due to settings of relays. Second is arrival of 4 new circuit breakers to complete replacements of 22kv circuit breakers at Lalomauga hydro plant.

(vi). Refurbishment of Tanugamanono Diesel Generators

Two generators are refurbished under this subproject; Units 9A and 5A. Refurbishment of Unit 9A is completed and put back in service. Work was successful. New crankshaft was installed. Overhaul of 5A will start when Alaoa hydro is back on line; expected in early May.

(vii). Vaipu Pumping Station

Still no decision this Quarter whether to go ahead with this project on not.

EPC is waiting on outcome of the study by SMEC on the integrity of the dam after the 2009 earthquake. Report is complete. Outcome of study is that the dam is safe.

This is an excellent project. It will generator more power from Taelefaga hydro plant. Payback is very short. Money is already budgeted for construction. There are no major environmental issues.

4. RISKS AND ISSUES

A. Staff Recruitment

EPC advertised for 3 new independent consulting engineers to add to PMU. Advertisement closed at end of March.

B. Prepayment Meters

Installation continued during the 1st Quarter. Only one subcontractor is involved. Most critical issue is blank screen defect of meters. Number of black screen defective meters is increasing. Problem is that when meters screens turned blank, they will continue to supply power even if customer credit runs out. So there will be a lot of customers with blank screens receiving free power. This problem has been brought to A D Riley, but they have not come up with a solution. What is needed is, if meter screen turns blank, it should automatically switch off power to customer. Until ADR comes up with a technical solution to this, EPC needs to closely monitor customers who have not purchased top up credits and send inspectors to check on this customers' meters.

C. Cabinet Policy

There have been no further discussions on this.

D. Meter Heights

Lowering of meters by subcontractors continued. Materials were supplied by AD Riley and paid in bulk by EPC under loan. There has been no firm decision on how to lower about 10,500 consumers that have been installed before meter lowering program started. PMU discussed this matter with ADB and have sent recommendation and costing to ADB to buy materials to lower meters and cost for ADR to lower them. Other option considered is buying materials under the Loan and letting EPC staff lowering the meters.

E. Vending and Card System

Scratch cards are widely used now. EPC is working with a local bank to use this bank dial up system for their bank consumers with EPC accounts to buy tokens without leaving his house. Consumer will text this bank using a 627 number and request EPC token. Bank system will process token and deduct amount from consumer account and bank get token number from EPC electronically and then text back to consumer. This is a very convenient method to get top up tokens.

F. Access Road to Fiaga

Contract was awarded to Silva Transport for construction of access road, and water line; work completed at end of this Quarter is 70%. Silva has not started on fence. Materials are on order, to arrive in April.

G. Land transfer to EPC

Government approved transfer of land in Fiaga and Vaiaata to EPC for new power plants. Transfer has not been done. Office of Attorney General will check on status.

5. EPC PERFORMANCE MONITORING

Design Summary	Performance Targets/Indicators	Current Status	
Impact			
Access to sustainable and reliable electricity services at affordable prices	Consumer satisfaction ratings of EPC's services	Initial Consumer Confidence Survey (CCS) is scheduled for 2011	
	Complaints to EPC's consumer service division	EPC to reactivate service order tracking system in Daffron System.	
Outcome			
Improved quality, reliability, and cost- effectiveness of power supply	System Average Interruption Duration Index (SAIDI) Baseline established and verified on 4th Quarter of 2008 and reduced by 20% by 2015	Baseline SAIDI established on 3 rd Quarter 2008 Annual SAIDI for Upolu: 1515 min Annual SAIDI for Savaii: 2622 min Quarterly SAIDI for Upolu: 379 min Quarterly SAIDI for Savaii: 656 min 4 th Quarter 2010 SAIDI: Annual SAIDI for Upolu: 2596 Annual SAIDI for Savaii: 364 Quarterly SAIDI for Upolu: 649 Quarterly SAIDI for Savaii: 91	
System Average Interruption Frequency Index (SAIFI) Baseline established and verified on 4th quarter 2008 and reduced by 20% by 2015		Baseline SAIFI established on 3 rd Quarter 2008 Annual SAIFI for Upolu: 26 Annual SAIFI for Savaii: 44 Quarterly SAIFI for Upolu: 6.5 Quarterly SAIFI for Savaii: 11 SAIFI on 4 TH Quarter S2010 Annual SAIFI for Upolu: 17.6 Annual SAIFI for Savaii: 20 Quarterly SAIFI for Upolu: 4.4 Quarterly SAIFI for Savaii: 5	

Design Summary	Performance	Current Status	
	Targets/Indicators		
		Refer to Appendix 8 for SAIDI monitoring	
		Refer to Appendix 9 for SAIFI monitoring	
	Cost of generation established and published by 1st Quarter of FY 2009	Cost of Generation established and reported to EPC Board as part of FY 2008 Budget process	
Outputs			
EPC's investment plan meets demand requirements	Power system capacity for energy and power meets demand requirements on Savai'i and Upolu	Project Implementation Plans meet estimated demand per survey. Planned expansion of power generation is based on N-2 criteria.	
Operational efficiency of EPC improves	Baselines for technical system losses are established and verified by	Baselines figures of Total System losses established on a 12 moth moving average at September 2008 are:	
	4th Quarter of 2008 and are to be reduced by 10%	Upolu: 15.7%	
	Baseline for non-technical system losses established and verified by 4th quarter 2008 and reduced by 10% by 2010.	Savaii: 18.2%	
		EPC: 15.9%	
		Updated 12 month moving average of total system losses now reported monthly to the Board. End of March 2011 are:	
		Total Losses: 16.17%	
		Technical: 7.30%	
		Non technical : 8.88%	
		Not possible to calculate Technical losses due to lack of metering and dedicated resources.	
		Not possible to calculate non-technical losses - this can only be calculated as "total system loss - technical loss"	
		Technical loss is established to be 13.5% from studies by the Japanese Volunteer and PMU in 4 th Quarter 2008.	
		Change in non technical loss can be monitored as technical loss level generally remains static	
		Finance Department have begun diagnostic	

Design Summary	Performance Targets/Indicators	Current Status
		review of causes of non-technical loss as basis for implementation of reduction measures
3. The financial performance of EPC improves	Consistent application of disconnection policy	Procedures reviewed in August 2008 and revised procedures implemented.
	Fuel audits conducted on all EPC's diesel power stations	Fuel Audit's at both Upolu and Savaii Generation Stations introduced 1 May 2008 and now routinely conducted monthly. Results reported monthly to Board.
	Timeliness of tariff adjustments in response to cost	Tariff Increase of 10% from 1 September 2008 incorporated in FY 2009 approved Budget not yet implemented – implementation now anticipated as 1 st January 2009.
	EPC's collection performance improves such that accounts receivables are below 2 months of sales	Customers' arrears on 1st Quarter of 2011 were: Debtor days as = 43.2days % Government Debt (of total debt) = 16.06% % Government Sales (of total sales) = 8.26%
	Government consumers' share of EPC's accounts receivables reduced from 55% in 2007 to less than their share of total sales by 31 December 2009	Debt/Sales Ratio: 194.32% Reference Appendix 5

4. Effective regulation of	Electricity Act Reform to	Not within Scope of this Project
the power sector is established	govern the power sector	
established	was established by 31 December 2009	
	Amendments of the EPC	
	Act consistent with the Electricity Act by 31	
	December 2009	
	Regulatory agency	
	established by 31	
	December 2010.	
5. Energy demand-side management	Energy conservation and demand-side management public awareness campaign	Not within Scope of this Project
	implemented	
6. Development of clean energy	Number of projects by energy subsector financed by the clean energy fund	Not within Scope of this Project
	Number of projects by energy subsector eligible for clean development mechanism	
	Electricity produced by clean energy resources (baseline of 45	

6. COMPLIANCE WITH LOAN COVENANTS (Beneficiary)

Covenant		
	Status	Comments
The Beneficiary shall carry out the project with due diligence and efficiency and in conforming with sound administrative, financial, engineering, environmental and public utilities practices	Complied	PMU is carrying out project with due diligence
In carrying out of the Project and operation of the project facilities the Beneficiary shall perform or cause to be performed, all obligations set forth in schedule 5 of the Financing Agreement	Complied	PMU office is being provided with all facilities
The Beneficiary shall make available promptly, as needed, the funds, facilities, services, land and other resources which are required in addition to the proceeds of the ADB Loan and Grant, and the JBIC Loan and the Government of Australia Grant, for carrying out of the Project and for the operation and maintenance of the Project facilities.	Complied	Beneficiary committed personnel, funds, etc support the project.
The Beneficiary shall enable ADB's representatives to inspect the Project, the goods financed out of the proceeds of the ADB Loan and the Grant and the JBIC Loan and the Government of Australia Grant, and any relevant records and documents.	Complied	There was a full ADB Mission in February this Quarter. ADB, JICA and Aussie Aid participated.
The Beneficiary shall take all action which shall be necessary on its part to enable EPC to perform it's obligations under the Project Agreement and shall take or permit any action which would interfere with the performance of such obligations.	Complied	
The Beneficiary shall exercise its rights under the Subsidiary Financing Agreement in such a manner as to protect the interests of the Beneficiary and ADB and to accomplish the purpose of the Loan and Grant, and the JBIC Loan and the Government of Australia Grant.	Complied	

No rights or obligations under the Subsidiary Complied One outstanding Financing Agreement shall be assigned, amended, issue with variation or waived without the prior concurrence of ADB. in Hospital Feeder Stage 1 and Alaoa feeder upgrade contract. ADB decided to approve as a single case due to PMU and ADB's misunderstanding on this contract.

7. LOAN EFFECTIVE MILESTONES (Electric Power Corporation)

Details	Status
Dotaino .	Otatao
Settlement of Government arrears as of 30 September 2007	Complied
Subsidiary Financing Agreement with EPC	Complied
Establishment of the Project Steering Committee (PSC)	Complied
Establishment of the Project Management Committee (PMC)	Complied
Establishment of Project Management Unit	Complied
Hire of Implementation Consultant	Complied
	5511 ,
Project Manage	Complied
Project Accountant	Complied
Generation Engineer	Complied
Transmission & Distribution Engineer	Complied

Power System Planner	Complied
Public Relation & Community Liaison Specialist	Complied
SCADA Engineer	Recruited Graduate Engineer assisted by JICA Volunteer
PMU Secretary	Complied
Establishment of Environment and Social Unit	Complied
Legal / Environment Advisor	Complied
Environment Specialist	Complied
Land & Acquisition Specialist	Complied
Effectiveness of the JBIC Loan Agreement	Complied
Commitment of the Government of Australia Grant	Complied
Legal Opinion from the Attorney General's Office	Complied

8. RESETTLEMENT (updated quarterly)

Regarding land for the Fiaga new diesel power station, Cabinet approved to transfer 97 acres to EPC at no cost. Matter was referred to the Office of Attorney General and Ministry of Finance to be reviewed. Final report of review by the two agencies is still outstanding. EPC needs to finalize official transfer of land to EPC. This matter was discussed in PSC meeting in December. Attorney General's Office will advise on status of transfer of lands in Fiaga and Vaiaata to EPC. Official transfer is still pending.

Status of land acquisition and resettlement for subprojects at end of 1st Quarter 2011:

Subproject	Temporary Land Acquisition	Permanent Land Acquisition	Percentage Obtained %	Commentary on Negotiations and Compensation paid
1) Hospital Feeder Upgrading Stage 1	N/R	N/R	N/R	N/R
2) Single & Three Phase PPM	N/R	N/R	N/R	N/R
3) Tanugamanono Power Station Noise & Emission Control	N/R	N/R	N/R	N/R
4) Refurbishment of Alaoa Hydropower Station	N/R	N/R	N/R	N/R
5) Fiaga Diesel Power Station	NO	YES	50%	Official transfer of land to EPC is still outstanding
6) Upgrade of Alaoa 6.6 kV Transmission Line to 22kV	N/R	N/R	N/R	N/R
7) Fiaga Diesel Power Station to Fuluasou Substation 33KV Underground Cable	N/R	N/R	N/R	N/R, cable installed inside road reserve
8) Hospital Feeder Upgrading Stage 2	N/R	N/R	N/R	UG is built inside road reserve, but there are families who have encroached legal reserves.
9) 22kV Fuluasou Substation	NO	YES	50%	Use old EPC Hydropower Station land & requesting Land Board for extra land to Golf Course fence and right of way for underground cables to substation
10) Low Voltage Network	N/R	N/R	N/R	N/R

Improvement Program				
11)Fuluasou Substation to Apia Wharf Area 22kV Underground Cable	N/R	N/R	N/R	Underground feeder will terminate at corner of Vaitele and Falealili Road
12) Fuluasou Substation to Leulumoega via Vaigaga 22kV Underground Cable	N/R	N/R	N/R	N/R
13) 22kV Overhead Conductor Upgrading Program	N/R	N/R	N/R	N/R
14) Hydro Scheme	YES	YES	YES	YES
15) Puapua-Asau Transmission Line 22kV Reconductoring	N/R	N/R	N/R	N/R
16)Power Factor Improvement Program	N/R	N/R	N/R	N/R
17)Low Voltage Network Improvement	N/R	N/R	N/R	N/R

18)Stream Flow Gauging Equipment				
19)HV/LV Testing Equipment	N/R	N/R	N/R	N/R
20)Supply, Installation & Operation of SCADA System	NO	YES	50%	NCC included in Fuluasou Substation at old Fuluasou hydro site.
21)Public Dissemination	N/R	N/R	N/R	N/R
22)Vending System Expansion				
23)Power System Planning Software	N/R	N/R	N/R	N/R
24) Refurbishment of Salelologa Power Station	N/R	N/R	N/R	Old power plant will be replaced with a new plant at Vaiaata. Old plant will be converted to a substation and a mini Control Center for Savaii system.
25) Refurbishment of Taelefaga Switchgears	N/R	N/R	N/R	N/R
26)Refurbishment of Samasoni Switchgears	N/R	N/R	N/R	N/R
27) Refurbishment of Tanugamanono Generators	N/R	N/R	N/R	N/R
28)Vaipu Pumping Scheme				

9. ENVIRONMENT (updated quarterly)

PUMA approved development consents of all subprojects that are now under construction. PMU is monitoring construction in accordance the DC and reported to PUMA. Inspectors from PUMA also visited construction sites to carry out their own independent inspection of these projects.

Only subprojects that PUMA has not approved Development Consent is new power plant in Vaiaata in Savaii and proposed hydro plants.

.

Subproject	Constraints	Activities	Action Taken	Comments
1) Hospital Feeder Upgrading Stage 1	NIL	NIL	NIL	Completed
2) Single & Three Phase PPM	NIL	NIL	NIL	To decide how to lower 10,500 meters, funding and who does it
3) Tanugamanono Power Station Noise & Emission Control	NIL	NIL	NIL	Started Feasibility Study
4) Refurbishment of Alaoa Hydropower Station	NIL	NIL	NIL	Monitor EMMP during construction currently in progress.
5) Fiaga Diesel Power Station	NIL	YES	YES	Relocate fences of two leases affected by new access road. Saved 3 Aoa trees in road and more at quarry site. Cleared trees in plant site. Lots of excavation at site and access road. Also relocated fences that have encroached 15m legal road reserve.
6) Upgrade of Alaoa 6.6kV Transmission Line to 22kV	NIL	NIL	NIL	Completed
7) Fiaga New Diesel Power Station to Fuluasou Substation Underground Cable	NIL	NIL	NIL	Contracts are awarded for supply of materials. EPC will do construction

8)Hospital Feeder Upgrading Stage 2	NIL	NIL	NIL	Construction started; 20% completed of trenching and installation of conduits.
9) 22kV Fuluasou Substation	YES	NIL	NIL	MNRE approved to use back access for underground cable. PMU is also requesting Land Board to transfer extra land to Golf Course fence for Substation.
10) Low Voltage Improvement Program	NIL	NIL	NIL	Contract awarded for supply of materials. No IEE required
11) Fuluasou Substation to Apia Wharf Area 22kV Underground Cable	NIL	NIL	NIL	Contracts were awarded for supply of materials. Conduits, vaults and pillar boxes bases were constructed with construction of Vaitele Rd. EPC will do work.
12) Fuluasou Substation to Leulumoega via Vaigaga 22kV Underground Cable	NIL	NIL	NIL	NIL
13) 22kV Overhead Conductor Upgrading Program	NIL	NIL	NIL	Contract started; contractor is GMA.
14) Hydro Scheme				Feasibility Study of Faleseela scheme is submitted to PMU.
15) Puapua-Asau Transmission Line 22kV Reconductoring	NIL	NIL	NIL	Rapid Environmental Assessment and Dev. Consent approved. Construction started.

16) Power Factor Improvement Program	NIL	NIL	NIL	Assessment completed. PF is good. No further work required.
17) Low Voltage Improvement program	NIL	NIL	NIL	Rapid Environmental Assessment has been prepared and submitted to ADB. No IEE required
18) Stream Flow Gauging Equipment	NIL	NIL	NIL	Completed.
19) HV/LV Testing Equipment	NIL	NIL	NIL	NIL
20) Supply, Installation & Operation of SCADA System	NL	NIL	NIL	ADB approved tender.
21) Public Dissemination	NIL	NIL	NIL	NIL
22) Vending System Expansion				
23) Power System Planning Software	NIL	NIL	NIL	NIL
24) Refurbishment of Salelologa Power Station	YES	YES	YES	PMU is redoing Feasibility Study for new power plant in Vaiaata because it is total different site. Topographic survey of site started. Old site in Salelologa will be converted to a new substation and miini control center.
25) Refurbishment of Taelefaga Switchgears	NIL	NIL	NIL	NIL
26) Refurbishment of Samasoni Switchgears	NIL	NIL	NIL	NIL

27) Refurbishment of Tanugamanono Generators	NIL	NIL	NIL	NIL
28) Vaipu Pump Assisted Scheme	NIL	NIL	NIL	Awaiting EPC decision. SMEC study confirmed that dam is safe.
29) Upolu hydro schemes				Implementation Consultant completed one Feasibility study, Faleseela Scheme and submitted to PMU and ADB. IC is continuing with rest of FS for other 4 schemes.

10. LOAN DRAW DOWN TO DATE (31 March 2011)

10. LOAN DRAW DOWN TO DATE (31 MARCH 2011)

No.	TITLE OF SUBPROJECTS								
		ADB categ*	Schedule Date Contract Award	Revised Contract Budget	Actual Contract Price	Contract Number	Actual Date Contract Awarded	Draw Down to date	Balance
				USD\$M			Awarueu		
	ADB Loan			26.61					
	ADB Grant			15.39					
	JICA Loan			38.00	1				
	Ausaid Grant			8.00					
	EPC			12.00					
				100.00					
	CORE SUBPROJECTS								†
1	Project Manager (0,37 + 0,38 unallocated)	4	Q4 2007	0.75	0.37		30th Oct 2007	0.16	0.59
2	Project implementation consultant: EBI (73 man- months)	4	Q1 2008	2.67	2.67		2 May 2008	1.79	0.88
3	Hospital Feeder Upgrading Project – Stage 1 + Alaoa 6.6kV to 22kV upgrade	3	Q1 2009	1.74		SAM-PSEP-02		1.83	-0.09
4	Single- and Three-Phase Prepayment Metering Project	3	Q3 2008	5.67	5.89	PPM1207	30 July 2008	4.92	0.75
	CANDIDATE SUBPROJECTS								
	UPOLU Generation								
5	Tanugamanono Power Station Noise and Emission Control Program	3	Q4 2009	0.17					0.17
6	Refurbishment of Alaoa Hydropower Station	3	Q3 2009	1.34		SAM-PSEP-03		0.41	0.93
7	Fiaga New Diesel Power Station Project	3	Q1 2010	22.27		SAM-PSEP-08		6.51	15.76
	UPOLU Transmission								
9	Upolu Diesel Power Station to Fuluasou Substation Underground Cable Project	3	Q1 2010	3.12					3.12
	Hospital Feeder Upgrading Project - Stage 2	3	Q4 2009	3.20		SAM-PSEP-09		1.32	1.88
	22 kV Fuluasou Substation Project	3	Q2 2010	2.93					2.93
12	Low-Voltage Network Expansion Program	3	Q2 2010	1.29					1.29
13	Fuluasou Substation to Apia Wharf Area 22 kV Underground Cable Project	3	Q2 2012	0.00					0.00
	Fuluasou Substation to Leulumoega via Vaigaga 22 kV Underground Cable Project	3	Q2 2012	2.78					2.78
	22 kV Overhead Conductor Upgrading Program	3	Q3 2009	6.03		SAM-PSEP-09		0.57	5.46
	SAVAII Generation								
	Hydropower Scheme	3	Q3 2012	10.65					10.65
	SAVAI'I Transmission								0.00
	Puapua–Asau Transmission Line 22 kV Reconductoring Project	3	Q3 2009	1.24		SAM-PSEP-02		0.05	
_	Low-Voltage Network Expansion Program	3	Q2 2010	0.56					0.56
	Measurement Equipment	^	00.0000				00 1 7 7		
	Stream Flow Gauging Equipment	3	Q3 2008	0.05		SAM-PSEP-04	23rd Oct 08	0.06	
	Electrical Test Equipment Equipment	3	Q3 2008	0.06		SAM-PSEP-05	23rd Oct 08	0.07	
21	SCADA CORE AND CANDIDATE SUBTOTAL	3	Q4 2009	3.48				47.00	3.48
	CORE AND CANDIDATE SUBTOTAL APPROVED NEW SUBPROJECTS			70.00			ļ	17.69	52.31 0.00
		3	Q1 2009	0.25				0.10	
	Vending System Public Dissemination	3	Q1 2009 Q1 2009	0.25 0.10				0.10	0.10
_	Power System Planning Software	3	Q3 2008	0.06		SAM-PSEP-06	23rd Oct 08	0.06	+
	Refurbishment of Taelefaga and Samasoni Switchgea	3	Q2 2009	1.60		SAM-PSEP-07	2314 00:00	2.34	
	Refurbishment of Salelologa Power Station	3	Q2 2009	5.90		SAM-PSEP-10		2.54	5.90
	Refurbishment of Tanugamanono Two Generators	3	Q3 2009	0.75		SAM-PSEP-08		0.48	_
	Upolu Hydro	3	Q! 2010	3.51		22: 30		1	3.51
	Contingency (Vaipu Assisted Pumping Scheme)	3	Q1 2010	0.50					0.50
	NEW SUBPROJECTS SUBTOTAL			12.67				2.97	+
									0.00
	GRAND TOTAL			82.67				20.66	62.01

11. DISBURSEMENT SUMMARY TO DATE (31 MARCH 2011)

FIFC	TRIC POWER CORPORAT	TION																				
	SAMOA POWER SECTOR EXPANSION PROJECT																					
	L DISBURSEMENTS SUMMARY		RCH 2011																			
					TOTAL			LOANS			(GOVT CAPITAL	CC	OUNTERPART	Ī	OTAL LOANS +	TOTAL LOANS+		TOTAL	TOTAL	Rema	inder
PROJE	ECT	PAYEE	CONTRACT NO.	DI	SBURSEMENT	ADB Loa	١	ADB Grant	JICA	TOTAL		AUSAID		EPC	G	OVT CAPITAL+	GOVT CAPITAL+		AWARD\$	AWARDS	(Varia	ince)
	Exchar	nge Rate (31/03/2011)	2.3929		SAT\$					LOANS						EPC C/PART	EPC C/PART		SAT		\$	%
	COLUMN A	COLUMN B	COLUMN C		COLUMN D	COLUMN	E	COLUMN F	COLUMN G	COLUMN H	Ħ	COLUMNI		COLUMN J		COLUMN K	USD\$	(COLUMN L	USD\$	COLUMN M	COLUMN N
TOTAL	. PROJECT APPROVED FUNDS		USD	\$	88,000,000	\$ 26,610	000 \$	15,390,000 \$	38,000,000	\$ 80,000,000	\$	8,000,000	\$	12,000,000	\$	100,000,000			2,180,000.00	\$ 911,028		
																				\$ -		
TOTAL	ESTIMATED PROJECT FUNDS		SAT\$	\$	210,575,200	\$ 63,675	069 \$	36,826,731 \$	90,930,200	\$ 191,432,000	\$	19,143,200	\$	28,714,800	\$	239,290,000	\$ 100,000,000	\$	5,216,522	\$ 2,180,000		
																	\$ -			\$ -		
		Arthur D. Riley & Co.					/															
METER		Ltd.	PPM1207	Ş	11,773,134	\$ 3,649	672 \$	824,119 \$	5,533,373	\$ 10,007,164	Ş	1,765,970	Ş	•	Ş	11,773,134	\$ 4,920,028	Ş	15,139,803	\$ 6,326,968	\$ 3,366,668	22%
2 POWE	R SYSTEM PLANNING SOFTWARE	Digsilent Pacific Pty	C111 00TD 00	č	124.010	ė 44	704 Ć	0.427 . ć	(1.1(4	ć 114 F00	ċ	20.222	ė		ė	124 010	ć romo	Ļ	124.040	ć <u>голл</u>	ć ^	00/
2 CTDEA	M FLOW GAUGING EQUIPMENT	Ltd	SAM-PSEP-06	ý	134,810	i.	791 \$	9,437 \$,		Ш	20,222	>		>	134,810			134,810		-\$ O	0%
3 DINEAL	IN FLOW GAUGING EQUIPMENT	NIWA	SAM-PSEP-04	\$	145,397	\$ 45	073 \$	10,178 \$	68,337	\$ 123,588	\$	21,810	\$	-	\$	145,397	\$ 60,762	\$	145,397	\$ 60,762	-\$ O	0%
		Electrotest Ltd.	SAM-PSEP-05	\$	163,443	\$ 50	667 \$	11,441 \$	76,818	\$ 138,927	\$	24,516	\$		\$	163,443	\$ 68,303	\$	163,443	\$ 68,303	-\$ 0	0%
		EGIS BCEOM		,						Å				400 776				,				
		International	CON0508	Ş	4,109,757		\$	4,109,757		\$ 4,109,757			\$	183,776	\$	4,293,533	\$ 1,794,280	\$	7,105,010	\$ 2,969,205	\$ 2,811,477	40%
	EIMBURSEMENTS:			č	440.004		,	440.004		ć 440.054			4	240.204	,	200 455	\$.	Ļ	C42.000	\$ -	\$ -	201/
	UL OUEDUEAD LIDODA DINO	EPC	CON0108	Ş	140,851		,	140,851		\$ 140,851			>	249,304	,	390,155	\$ 163,047		612,000	\$ 255,757	\$ 221,845	36%
		EPC	SAM-PSEP-09	Ş	991,727	\$ 307	435 \$	69,421 \$	466,112	\$ 842,968	Ş	148,759	Ş	•	Ş	991,727	\$ 414,446	Ş	991,727	\$ 414,446	-\$ O	0%
	RADING OF SUPRIMA VENDING	rne.		÷	244.240	ć 75	700 Å	47.005 6	444 702	ć 207.F0F	4	20,022	4		,	241240	ć 400.0F0	Ļ		,	ć 244240	#D#//AI
MACHI 7 LIPGRA	ADING HOSPITAL FEEDER STAGE 1.	EPC		ý	244,218	\$ /5	708 \$	17,095 \$	114,782	\$ 207,585	>	36,633	Ş	•	>	244,218	\$ 102,059	þ		٠ -	-\$ 244,218	#DIV/0!
11	A DIST. LINE & ASAU 22KV																					
	NDUCTORING:																\$ -			\$ -	\$ -	
1.TRAN	NSFORMERS	Etel Limited	SAM-PSEP-02/01-D	\$	543,527	\$ 168	493 \$	38,047 \$	255,458	\$ 461,998	\$	81,529	\$		\$	543,527	\$ 227,142	\$	571,118	\$ 238,672	\$ 27,591	5%
2.CABL	LES & CUNDUCTURS	Olex Australia Pty	cus acra milas a	č	CO2 044	ć 141	nan é	47.074 Ć	224 420	ć F04 227	ċ	103 507	ė		ė	CO2 044	ć 20F.040	Ļ	COA CO7	ć 10C411	ć 771	00/
2 001 0	ES & CROSSARMS	Ltd.	SAM-PSEP-02/01-C	ý	683,914	\$ 212	013 \$	47,874 \$	321,439	\$ 581,327	þ	102,587	Ì		þ	683,914		ľ	684,687			0%
		Bluebird/Ahlal JV	SAM-PSEP-02/01-B	\$	88,804	\$ 27	529 \$	6,216 \$	41,738	\$ 75,483	\$	13,321	\$		\$	88,804	\$ 37,111	\$	102,124	\$ 42,678	\$ 13,321	13%
	PLY OF GALVANISED LINE							4					_									
		South Austral Pty Ltd.	SAM-PSEP-02/01-A	Ş	2,468,322	\$ 765	180 \$	172,783 \$	1,160,111	\$ 2,098,074	Ş	370,248	Ş	-	Ş	2,468,322	\$ 1,031,519	Ş	154,689	\$ 64,645	-\$ 2,313,634	-1496%
SERVIC	CUREMENT OF WORKS & RELATED	Bluebird/Ahlal JV	SAM-PSEP-02/02-A	\$	491,223	\$ 152	279 \$	34,386 \$	230,875	\$ 417,540	\$	73,683	\$	101,680	\$	592,903	\$ 247,776	\$	154,690	\$ 64,645	-\$ 438,214	-283%
	IBISHMENT OF ALAOA HYDRO		,						,			,				·		ľ	·		,	
	R STATION:					l.																
		Tenix New Zealand Silva Transport	SAM-PSEP-03	\$	657,916	\$ 203	954 \$	46,054 \$	309,221	\$ 559,229	\$	98,687	\$	•	\$	657,916	\$ 274,945	\$	3,432,945	\$ 1,434,638	\$ 2,775,029	81%
2.PENS	STOCK AIND CIVIL WORKS	Company	SAM-PSEP-03/01	\$	272,636	\$ 84	517 \$	19,085 \$	128,139	\$ 231,741	\$	40,895	\$	41,018	\$	313,654	\$ 131,077	\$	1,169,837	\$ 488,878	\$ 856,183	73%
9 HOSPIT	TAL FEEDER STAGE 2 & 22KV											,				·		ľ			,	
UPGRA	ADING:																\$ -			\$ -		
1.SUPP	PLY OF CABLES	Etel Limited	SAM-PSEP-09/01-A	Ś	859,520	\$ 266	451 \$	60,166 \$	403,974	\$ 730,592	\$	128,928	\$		Ś	859,520	\$ 359,196	\$	768,178	\$ 321,024	-\$ 91,343	-12%
2.SUPP	DI V OE TRANSFORMERS		,	ć							Ш	,	ć		ė			ľ	,			76%
יייחם כ		· .	SAM-PSEP-09/01-B	ç	1,126,030 667,733		069 \$ 997 \$	78,822 \$ 46,741 \$				168,904 100,160	ç		ç	1,126,030 667,733		1	4,625,858		\$ 3,499,828 -\$ 667,733	/0%
	/ERLINE MATERIALS & RELATED EQ CUREMENT OF WORKS & RELATED	1	SAM-PSEP-09/03 SAM-PSEP-09/02B	Ç	493,940		997 \$ 121 \$	40,741 \$ 34,576 \$				74,091	¢		ç	493,940					-\$ 667,733 -\$ 493,940	
	CUREMENT OF WORKS & RELATED IBISHMENT OF TAELEFAGA,	WH	DHMIT JET UJ/UZB	à	473,340	133 ب	141)	J4,J/U \$	131,131	¥13,043	þ	74,031	۲		þ	423,240	y 200,419			4	-y 423,340	
	MAUGA, SAMASONI &																					
	·	Northpower Ltd.	SAM-PSEP-07	\$	5,595,396	\$ 1,734	573 \$	391,678 \$	2,629,836	\$ 4,756,086	\$	839,309	\$		\$	5,595,396	\$ 2,338,332	\$	5,390,576	\$ 2,252,738	-\$ 204,819	-4%

11 RE	FURBISHMENT OF TANUGAMANONO																			
GE	ENERATORS 5A AND 9A:	Man Diesel & Turbo																		
		Australia	SAM-PSEP-08	\$ 1,138,081	\$ 3	352,805 \$	79,666 \$	534,898		\$	170,712	\$		\$ 1,138,081	\$ 475,608	\$	2,855,377	\$ 1,193,27	\$ 1,717,296	60%
	ONSTRUCTION OF PUAPUA FEEDER	Tenix New Zealand	SAM-PSEP-02/02-B	\$ 125,163	\$	38,801 \$	8,761 \$	58,827	\$ 106,389	\$	18,774	\$		\$ 125,163	\$ 52,306	\$	6,536,160	\$ 2,731,48	\$ 6,410,997	98%
13 FI/	AGA DIESEL POWER STATION:																			
1.5	POWER HOUSE AND GENERATORS	Bluebird /Mitsubishi																		
			SAM-PSEP-12/03	\$ 12,769,013	\$ 3,5	958,394 \$	893,831 \$	6,001,436	\$ 10,853,661	\$	1,915,352	\$		\$ 12,769,013	\$ 5,336,208	\$	63,845,066	\$ 26,681,04	\$ 51,076,053	80%
2.1	FIAGA ACCESS ROAD AND FENCING	Silva Transport																		
		Company	SAM-PSEP-12/02-A&C	\$ 1,712,279	\$!	530,806 \$	119,859 \$	804,771	\$ 1,455,437	\$	256,842	\$	45,164	\$ 1,757,442	\$ 734,440	\$	2,579,246	\$ 1,077,87	\$ 821,803	32%
3.F	FIAGA SWITCHGEAR	North Power	SAM-PSEP-12/03B	\$ 984,267	\$ 3	305,123 \$	68,899 \$	462,606	\$ 836,627	\$	147,640	\$	-	\$ 984,267						
4.6	FIAGA SITE CLEARING & LEVELING	PPG Engineering	SAM-PSEP-12/02-B	\$ 70,324	\$	21,800 \$	4,923 \$	33,052	\$ 59,775	\$	10,549	\$		\$ 70,324	\$ 29,389	\$	251,000	\$ 104,89	\$ 180,676	72%
14 VA	ATTELE ROAD WIDENING:																			
1.6	ELECTRICAL DUCTING	Ott Transport	SAM-PSEP-10/01	\$ 614,495	\$ 1	190,493 \$	43,015 \$	288,813	\$ 522,321	\$	92,174	\$		\$ 614,495	\$ 256,799	\$	614,495	\$ 256,79	.\$ O	0%
2.9	STREETLIGHTS INSTALLATION	All Electrical	SAM-PSEP-13/03	\$ 223,500	\$	69,285 \$	15,645 \$	105,045	\$ 189,975	\$	33,525	\$		\$ 223,500	\$ 93,401			\$ ·	-\$ 223,500	
15 PC	OWER CABLES	Olex	SAM-PSEP-15/01-C	\$ 364,883	\$ 1	113,114 \$	25,542 \$	171,495	\$ 310,151	\$	54,733	\$		\$ 364,883	\$ 152,486			\$ ·	-\$ 364,883	
TO	OTAL DISBURSEMENTS AS AT 31st MAR	CH 2011	SAT\$	\$ 49,654,305	\$ 14,0	075,146 \$	7,428,866 \$	21,339,738	\$ 42,533,599	\$	6,755,822	\$	620,942	\$ 49,910,363	\$ 20,857,689	\$	24,210,886	\$ 10,117,80	\$ 25,699,477	
TO	OTAL DISBURSEMENTS AS AT 31st MAR	CH 2011	USD	\$ 20,750,681	\$ 5,8	882,045 \$	3,104,545 \$	8,917,940	\$ 17,774,917	\$	2,823,278	\$	259,493	\$ 20,857,689	\$ 8,716,490	\$.	10,117,801	\$ 4,228,25	- \$ 10,739,888	
IN	TEREST DURING CONSTRUCTION (IDC)		interest rate																	
	Interest Due		6.50%		\$	914,884 \$	482,876 \$	1,387,083	\$ 2,784,844						\$			\$.		
	less Interest poid				-\$	115,752 -\$	61,094 -\$	175,496	-\$ 352,342			\$	352,342	\$ 352,342	\$ 147,245	\$	352,342	\$ 147,24	\$ -	\$.
To	otal Interest Outstanding as at 31st Ma	ırch 2011			\$	799,132 \$	421,782 \$	1,211,587	\$ 2,432,502					\$	\$	\$	2,432,502	\$ 1,016,55	-\$ 2,432,502	\$ 1
TC	OTAL DISBURSEMENTS + IDC		SAT\$	\$ 49,654,305	\$ 14,8	874,278 \$	5 7,850,649 \$	22,551,325	\$ 44,966,101	\$	6,755,822	\$	973,284	\$ 50,262,705	\$ 21,004,933	\$.	26,995,730	\$ 11,281,59	\$ 23,266,975	
%	of funds disbursed as at 31st MAR	CH 2011	%	24%	23	%	21%	25%	23%		35%		3%	21%						
TA	LXES AND DUTIES																			
(G	OVERNMENT CONTRIBUTION - MOF)											\$	4,345,254.17	\$ 4,345,254.17	\$ 1,815,895	\$	5,216,522	\$ 2,180,00	-\$ <i>871,267.83</i>	-17%
TO	OTAL DISBURSEMENTS + IDC + TAXI	ES & DUTIES	SAT\$	\$ 49,654,305	\$ 14,8	874,278 \$	7,850,649 \$	22,551,325	\$ 44,966,101	\$	6,755,822	\$	5,318,538	\$ 54,607,959	\$ 22,820,828	\$.	32,212,252	\$ 13,461,59	\$ 22,395,707	
%	of funds disbursed as at 31st MAR	CH 2011	Х	24%	23	%	21%	25%	23%		35%		19%	23%						
Re	emaining Balance as at 31st MARCH	H 2011	SAT\$	\$ 160,920,895	\$ 48,8	800,791 \$	28,976,082 \$	68,378,875	\$ 146,465,899	\$	12,387,378	\$	23,396,262	\$ 184,682,041	\$ 77,179,172					
						10/	700/	75%	77%		65%		81%	77%						
	of funds remaining as at 31st MAR	RCH 2011	%	76%	11	76	79%	13/0	11/0	Ш	••/-	ш								
	of funds remaining as at 31st MAk	RCH 2011	%	76%	11	%	19%	13/1	11/1		•••									
%	of funds remaining as at 31st MAR emaining Balance as at 31st MARC		% USO\$	\$ 76%		% 393,995 \$	19% 5 12,109,191 \$	28,575,734		\$	5,176,722	\$	9,777,367	\$ 77,179,172						

12. LAST ADB REVIEW MISSION

ADB had a full Mission in February this 1st Quarter 2011 representatives from ADB, JICA, and Aussie Aid attended:

Matters discussed:

- a) Status of each subproject;
- b) Payment of variation costs of contract for construction of Hospital Feeder Stage 1 and Alaoa Feeder Upgrades. ADB Mission decided to recommend approval of payment as a one time case, due to misunderstanding between PMU and ADB related to contract cost.
- c) Bluebird Ah LAL JV in association with Woods Pacific and MHI; whether they have financial resources to continue; considered 3 options if BB does pull out. Financial strain started when ADB disapprove request by Government for BB payments claims request in Yen, considering that 60% of total contract amount will be paid in Yen. BB has not officially advised EPC that they cannot perform contract. BB is pushing ahead with project.
- d) 3 options that ADB considered for Fiaga power plant contract; (i) terminate BB and award to Caterpillar; (ii) split contract into 2 parts, one for powerhouse by BB and second by Mitsubishi for supply of generators and installation; and (iii) do nothing and let BB continue.
- e) Discussion with Attorney General related to BB's contract and legal structure of JV agreements with Woods Pacific and Mitsubishi Heavy Industry.
- f) Anti Corruption Committee visit in April to review entire power expansion project.
- g) Improvement in process to speed up payment of contractor invoices.
- h) Verifying of total number EPC's electric consumers so that it can be accurately determined if additional Prepayment Meters are needed to be purchased and installed to meet PSEP objective of having 75% of electric consumers on Prepayment Meters.
- i) Hydro study; feasibility studies of 5 schemes; budget and funding; proposal from Implementation Consultant for detailed design as required by EPC.
- j) Recruit of 3 independent consultant engineers; 1 civil, 1 generation, and 1 power distribution engineers to add to PMU with Implementation Consultant coming to an end.

ADB next Mission is not known when.

13. APPENDICES

Appendix 1 – Project Progress Monitoring

TASKS / MILESTONES	TARGET	ACHIEV	ASS	AC	WT	COMMENTS
	DATE	DATE	WT	PR	PR	
A. CORE SUBPROJECTS			%	%	%	
1. Hospital Feeder Upgrading Proje						
 Approved Outline Approved Feasibility Study Settle all Environmental issues Settle all Land Issues Approved Tender Documents Approved Tender Evaluation Report Award Contract Receive Materials Complete Construction Final Report 	15.08.08 05.12.08 10.04.09 13.02.09 13.02.09 29.05.09 11.09.09 04.12.09 26.02.10 26.03.10	25.08.08 27.11.08 27.11.08 10.3.09 29.05.09 30.09.09 31.10.10 30.11.10	2.0 5.0 5.0 5.0 5.0 5.0 20.0 43.0 5.0	100 100 100 100 100 100 100 100 100	2.0 5.0 5.0 5.0 5.0 5.0 20.0 43.0 5.0	EPC Board approved outline on 25 August 2008. Feasibility Study was reviewed and endorsed by ADB in October 2008. This was submitted and approved by the EPC Board in November 2008. Tender is combined with Upgrade of Alaoa 6.6 Transmission Line to 22kV and Puapua-Asau Transmission Line 22kV Reconductoring. PMU prepared 2 separate tenders; ICB-Goods & NCB-Labour. 4 contracts for supply of all materials were awarded. All materials received. Needed more materials; included LV materials; were not included in bid. Contract of Works awarded to Bluebird. Contract signed. Construction is complete. Outstanding is final payment of extra cost to contract. Extra cost is 335,284 Tala.
		Total Wt	100			
		Imp.Prog			100	
1. Single and Three-phase Prepayr	nent Meteri		ı	l.		
 Approved Outline Approved Feasibility Study 			2.0 5.0	100 100	2.0 5.0	D bringing total number of meters installed by A D Riley
3. Settle all Environmental Issues			5.0	100	5.0	
4. Settle all Land Issues			5.0	100	5.0	
5. Approved Tender Documents			5.0 5.0	100 100	5.0 5.0	
Approved Tender Evaluation Report			5.0	100	5.0	
7. Award Contract	31.12.08	31.12.08	5.0	100	5.0	

8. Install 1-1650 meters	31.03.09	31.03.09	5.0	100	5.0	23,415. This is 63.75% of total number of electric
9. Install 1651-3238	30.06.09	30.06.09	5.0	100	5.0	customers of 36,584.
10. Install 3239-4826	30.00.09	30.00.09	5.0	100	5.0	customers of 50,564.
11. Install 4826-6414	31.12.09	20.11.09	5.0	100	5.0	Total number of meters lowered during this quarter is
12. Install 6415-8000	31.12.09	31.12.09	4.0	100	4.0	172. This brings the total number of meters lowered to
13. Install 8001-9250	30.06.10	31.01.10	4.0	100	4.0	3,474.
14. Install 9251-10500	30.09.10	29.02.10	4.0	100	4.0	
15. Install 10500-11750	31.12.10	31.03.10	4.0	100	4.0	
16. Install 11750-13000	31.03.11	31.05.10	4.0	100	4.0	
17. Install 13001-14250	30.06.11	30.06.10	4.0	100	4.0	
18. Install 14251-15500	30.09.11		4.0	100	4.0	
19. Install 15501-16750	31.12.11	0.4.0.4.0	4.0	100	4.0	
20. Install 16751-18000	31.03.12	31.12.10	2.0	50	1.0	
21. Install 18001-18750	30.06.12	31.3.11	2.0	13	0.3	Installation is over 12 months ahead of schedule.
22. Install 18751-19500	30.09.12		2.0			
23. Install 19501-20250	31.12.12		2.0			
24. Install 20250-21000	31.02.12		3.0			
25. Final Report						
		Total Wt	100			
		Imp.Prog			90.3	
B. CADIDATE SUBPROJECTS						
1. Upolu						
a. Generation						
(i) Tanugamanono Power Station N		ssion Contr				
Approved Outline	11.09.09		2.0	100	2.0	
Approved Feasibility Study	01.01.10		5.0	20	1.0	Quarter.
Settle all Environment Issues	07.05.10		5.0			PMU started on preparation of Feasibility Study this
Settle all Land Issues	12.03.10		5.0			Quarter.

	Approved Tender Documents	12.03.10		5.0			
6.	Approved Tender Evaluation	25.06.10		5.0			
_	Report	15.10.10		5.0			
	Award Contract	14.01.11		20.0			
8.	Receive Materials	27.05.11		43.0			
	Complete Construction	24.06.11		5.0			
10.	Final Report						
			Total WT	100			
			Imp.Prog			3.0	
	Refurbishment of Alaoa Hydrop						
1.		15.08.08	25.07.08	2.0	100	2.0	
2.	Approved Feasibility Study	05.12.08	27.11.08	5.0	100	5.0	electro-mechanical part of refurbishment. Contract is
3.	Settle all Environment Issues	24.04.09	27.11.08	5.0	100	5.0	signed. Civil part scope of work was revised and then
4.	Settle all Land Issues	16.01.09	27.11.09	5.0	100	5.0	rebided. Turbine, generator, electrical switchgear and
5.	Approved Tender Documents	06.03.09	10.06.09	5.0	100	5.0	all related equipment will arrive at end of January,
6.	Approved Tender Evaluation	03.07.09	30.09.09	5.0	100	5.0	2011. Construction will start at end of January. Silva
	Report	06.11.09	31.12.09	5.0	100	5.0	Transport, contractor for civil work started preliminary
7.	Award Contract	23.04.10					work on site.
8.	Receive Materials/Equipment	23.04.10		20.0	100	20.0	Construction started both electro mechanical and civil
9.	Complete Construction	21.05.10		43.0	60	25.0	work. Equipment arrived. Installer also arrived to start
	Final Report			5.0	0	0	
	•						
			Total Wt	100			
			Imp.Pro			77.0	
			g				
(iii)	Fiaga Diesel Power Station Pro	<u>j</u> ect					
1.	Approved Outline	08.08.08	25.07.08	2.0	10	2.0	Contracts for following have been awarded and signed;
2.	Approved Feasibility Study	17.04.09	30.09.09	5.0	0	5.0	Bluebird Ah LAL JV for powerhouse and generators;
3.	Settle all Environment Issues	04.09.09	30.06.09	5.0	10	5.0	Northpower for electrical switchgear and substation; Silva
4.	Settle all land issues	26.06.09	31.01.10	5.0	0	5.0	Transport for access road, water pipeline and fence, and
5.	Approved Tender Documents	24.07.09	31.01.10	5.0	10	5.0	PPG for levelling and preparing of site of powerhouse.
6.	Approved Tender Evaluation	01.01.10		5.0	0	5.0	Constructions started on site in October 2010. Design of
	Report	12.03.10		5.0	10	5.0	powerhouse started. Geotechnical study on site is
7.	Award Contract	27.08.10		20.0	0	20.0	complete.
8.	Receive Materials	14.02.14		43.0	10	0	BB JV mobilized on site. They set up offices and started

	Complete Construction Final Report	14.03.14	Total Wt	5.0 100	0 10 0 10 0		earthwork to prepare site. Manufacture of generators is 50% complete. Design and preparation of construction drawings is 50% complete. Access road and water line is 70% complete. Work on fence has not started. Materials are due to arrive in April.
			Imp.Prog	100		52.0	
b.	Transmission					<u> </u>	
(i)	Upgrade of Alaoa 6.6KV Transm	ission Line	from 6.6 to	22kV Pr	oject		
1.	Approved Outline	10.10.08	25.07.08	2.0	100	2.0	All materials for this, Hospital Feeder Stage 1 upgrade
2.	Approved Feasibility Study	30.01.09	27.11.08	5.0	100	5.0	and Puapua feeder reconductoring have arrived.
3.	Settle all Environment Issues	12.06.09	27.11.08	5.0	100	5.0	Construction is complete. Contractor for works is
4.	Settle all Land Issues	27.03.09	27.11.08	5.0	100	5.0	Bluebird Ah LAL JV.
5.	Approved Tender Documents	24.04.09	10.03.09	5.0	100	5.0	
6.	Approved Tender Evaluation	21.08.09		5.0	100	5.0	
_	Reports	15.01.10		5.0	100	5.0	
	Award Contract	09.04.10	30.09.09	5.0	100	5.0	
8.	Supply Materials	30.07.10	00 00 00	20	100	20	
9.	Complete Construction	27.08.10	30.09.09	40	100	40	
10	Final Report			3	100	3	
			Total Wt	100		100	
(::)	Figure Discuss Development As Fo		Imp.Prog	3711		100	During
(II) 1.	Fiaga Diesel Power Station to Fu Approved Outline	08.05.09	ostation 33K	2.0	rgrour 100	2.0	
	Approved Outline Approved Feasibility Study	28.08.09		2.0 5.0	100	5.0	Feasibility Study is complete and approved by ADB. Tender for Goods and Materials closed in December,
3.	Settle all Environment Issues	01.01.10		5.0 5.0	100	5.0	2010. Evaluation report was submitted to ADB for
3. 4.	Settle all Land Issues	09.10.09		5.0	100	5.0	approval. Award contracts for supply of materials and
5.	Approved Tender Documents	06.11.09		5.0	100	5.0	equipment. Construction will be done by EPC crew.
_	Approved Tender Evaluation	10.02.10		5.0	100	5.0	equipment. Conditional will be done by El O diew.
] .	Report	04.06.10		0.0	.00	0.0	
7.	Award Contract for materials.	09.04.10		5.0	100	5.0	
8.	Supply Materials	11.02.11		20	0	0	
9.	Complete Construction	11.03.11		43	0	0	

10. Final Report			5	0	0	
			400			
		Total Wt	100			
/!!!!!! !! !! !! !! !! !! !! !! !! !! !!		Imp.Prog			32.0	
(iii) Hospital Feeder Upgrading Pro						
Approved Outline	07.08.09	28.3.09	2.0	100	2.0	Project is implemented in two parts. Part 1 is purchase
Approved Feasibility Study	27.11.09	31.3.09	5.0	100	5.0	of materials and Part 2 is construction and installation of
Settle all Environment Issues	02.04.11	31.03.09	5.0	100	5.0	cable and related equipment. Supply of materials is 90%
4. Settle all Land Issues	08.01.10	31.03.09	5.0	100	5.0	complete. Rest of materials was rebided. Contract has
5. Approved Tender Documents	19.02.10	30.09.09	5.0	100	5.0	been awarded for rebid materials. Construction is
Approved Tender Evaluation	04.06.10		5.0	100	5.0	awarded to Bluebird Ah LAL JV. Construction started in
Report	17.09.10		5.0	100	5.0	December 2010; about 20% is completed.
7. Award Contract	10.12.10					
8. Receive Materials	27.05.11		20.0	90	20	
Complete Construction	24.06.11		43	100	4	
10. Final Report			5	0	0	
		Total Wt	100			
		Imp.Prog			57	
(iv) 22KV Fuluasou Substation Proje						
 Approved Outline 	06.11.09	28.3.09	2.0	10	2.0	ADB approved feasibility study and tender as a turnkey
Approved Feasibility Study	26.02.10		5.0	0	5.0	project. Tender was advertised in December 2010.
Settle all Environment Issues	02.07.10		5.0	10	5.0	Tender closes in February 2011.
Settle all Land Issues	09.04.10		5.0	0	5.0	Evaluation report ready to submit to ADB.
Approved Tender Documents	21.05.10		5.0	10	5.0	
Approved Tender Evaluation	03.09.10		5.0	0		
Report	17.12.10		5.0	10		
Award Contract	10.03.11		20.0	0		
8. Supply Materials	26.08.11		43.0	10		
Complete Construction	23.09.11		5.0	0		
10. Final Report						
		Total Wt	100			
		Imp.Prog			22.0	
(v) Low Voltage Network Improvem	ent Prograr	n				
 Approved Outline Approved Feasibility Study 	06.11.09 26.02.10	31.3.09	2.0 5.0	100	2.0 5.0	Materials were tendered separately. Construction is done by EPC. PMU issued ICB tender for supply of

		1	ı				
3.		02.07.10		5.0	100	5.0	materials. Contract was awarded for materials supply.
4.	Settle all Land Issues	09.04.10		5.0	100	5.0	
5.	Approved Tender Documents	21.05.10		5.0	100	5.0	
6.	Approved Tender Evaluation	03.09.10		5.0	100	5.0	
	Report	17.12.10		5.0	100	5.0	
7.	Award Contract	11.03.11		20.0			
8.	Supply Materials	26.08.11		47.5			
9.	Complete Construction	23.09.11		5.0			
10	. Final Report						
			Total Wt	100		32.0	
			Imp.Prog				
(vi	Fuluasou Substation to Apia Wh	narf Area 22	kV Undergro	ound Cal	ole Pro	oject	
	Approved Outline	06.11.09	30.06.09	2.0	100	2.0	Feasibility study was completed and approved by ADB.
2.	Approved Feasibility Study	26.02.10		5.0	100	5.0	Materials supply was tendered separately. Construction
3.	• • •	02.07.10		5.0	100	5.0	will be done by EPC. Work of undergrounding electrical
4.	Settle all Land Issues	07.05.10		5.0	100	5.0	conduits and vaults from Lepea to Malifa has started as
5.	Approved Tender Documents	21.05.10		5.0	100	5.0	part of Vaitele Road widening project. EPC, Tender
6.	Approved Tender Evaluation	03.09.10		5.0	100	5.0	
	Report						work. Ott completed construction. There are a few items
7.	Award Contract	17.12.10		5.0	100	5.0	
8.	Supply Materials	11.03.11		20.0			to feed street lights and control panel for street lights was
9.		27.07.12		43.0			awarded to All Electrical. Work is complete.
10	. Final Report	24.08.12		5.0			Evaluation Report for supply of cables and other related
	·						materials was submitted to ADB. ADB and Tender's
							Board granted their approval. Contracts were awarded.
			Total Wt	100			•
			Imp.Prog			32	
(vi	i) Fuluasou Substation to Leul	umoega via	Vaigaga 22	kV Unde	rgrour	nd Cabl	e Project
1.	Approved Outline	05.08.11		2.0			This subproject is cancelled from PSEP. Powerlines for
	Approved Feasibility Study	25.11.11		5.0			West Coast feeder will remain overhead.
3.		30.03.12		5.0			
4.	Settle all Land Issues	03.02.12		5.0			
5.		17.02.12		5.0			
	Approved Tender Evaluation	01.06.12		5.0			
	Report	14.09.12		5.0			
7.	Award Contract	07.12.12		20.0			
8.	Supply Materials	25.04.14		43.0			

9. Complete Construction	23.05.14		5.0			
10. Final Report		Total Wt	100			
			100		0.0	
(viii) 22kV Overbood Conducte	u Haaradiaa D	Imp.Prog			0.0	
(viii) 22kV Overhead Conducto			0.0	400		Matariala
1. Approved Outline	06.02.09	23.10.08	2.0	100	2.0	Materials were supplied under separate contracts. A
2. Approved Feasibility Study	29.05.09	28.02.09	5.0	100	5.0	materials have arrived. Works was tendered
3. Settle all Environment Issues	02.10.09	31.3.09	5.0	100	5.0	separately.
4. Settle all Land Issues	07.08.09	31.3.09	5.0	100	5.0	
5. Approved Tender Documents	21.08.09	30.09.09	5.0	100	5.0	Feeders included in this subproject are: Lalomaug
Approved Tender Evaluation Report	04.12.09		5.0	100	5.0	Feeder, East Cost Feeder, South Coast Feeder, Alao transmission line, West Coast Feeder, Beach Roa
7. Award Contract	19.03.10		5.0	100	5.0	and Vaitele Feeders.
8. Supply Materials	11.06.10		20.0	100	20.0	
9. Complete Construction	11.04.14		43.0			Construction was tendered. ADB approved to awar
10. Final Report	09.05.14		5.0			contract to GMA. Contract was signed in December
·						2010. Contractor is yet to provide performance bond
						advance payment bank security, and advance
						payment invoice. Construction started in February.
		Total Wt	100			
		Imp.Prog			52.0	
2. Savaii						
a. Generation						
(i) Hydro Scheme						
Approved Outline	05.08.11		2.0	10	2.0	boden in Oil in most on hold don to loud discosts. Follow
2. Approved Feasibility Study			2.0		2.0	Hydro in Siii is put on noid due to iand dispute. Faleat
E. Approved a casionity Olday	13.04.12		5.0	0		
3. Settle all Environment Issues					:	scheme at Vailoa, Palauli is included under subproje
	13.04.12		5.0 5.0		:	scheme at Vailoa, Palauli is included under subprojed Hydropower Development. There are 5 schemes bein
3. Settle all Environment Issues4. Settle all Land Issues	13.04.12 31.08.12		5.0 5.0 5.0		1	scheme at Vailoa, Palauli is included under subprojed Hydropower Development. There are 5 schemes bein studied under this project. There are 4 hydro scheme
 Settle all Environment Issues Settle all Land Issues Approved Tender Documents 	13.04.12 31.08.12 22.06.12		5.0 5.0 5.0 5.0		1	Hydro in Sili is put on hold due to land dispute. Faleat scheme at Vailoa, Palauli is included under subprojed Hydropower Development. There are 5 schemes bein studied under this project. There are 4 hydro scheme selected in Upolu.
 Settle all Environment Issues Settle all Land Issues Approved Tender Documents Approved Tender Evaluation 	13.04.12 31.08.12 22.06.12 30.07.12		5.0 5.0 5.0		! !	scheme at Vailoa, Palauli is included under subprojed Hydropower Development. There are 5 schemes being studied under this project. There are 4 hydro schemes selected in Upolu.
 Settle all Environment Issues Settle all Land Issues Approved Tender Documents 	13.04.12 31.08.12 22.06.12 30.07.12 23.11.12		5.0 5.0 5.0 5.0 5.0		; ;	scheme at Vailoa, Palauli is included under subproje. Hydropower Development. There are 5 schemes being studied under this project. There are 4 hydro schemes selected in Upolu. Implementation Consultant is conducting Feasibility.
 Settle all Environment Issues Settle all Land Issues Approved Tender Documents Approved Tender Evaluation Report Award Contract 	13.04.12 31.08.12 22.06.12 30.07.12 23.11.12 08.02.13 26.07.13		5.0 5.0 5.0 5.0 5.0 5.0 20.0		; ; ;	scheme at Vailoa, Palauli is included under subproje. Hydropower Development. There are 5 schemes being studied under this project. There are 4 hydro schemes selected in Upolu. Implementation Consultant is conducting Feasibility Studies of 5 hydropower schemes. From 5 schemes,
 Settle all Environment Issues Settle all Land Issues Approved Tender Documents Approved Tender Evaluation Report Award Contract Receive Materials 	13.04.12 31.08.12 22.06.12 30.07.12 23.11.12 08.02.13 26.07.13 13.01.17		5.0 5.0 5.0 5.0 5.0 5.0 20.0 43.0		S S S S S	scheme at Vailoa, Palauli is included under subproje Hydropower Development. There are 5 schemes being studied under this project. There are 4 hydro schemes selected in Upolu. Implementation Consultant is conducting Feasibili Studies of 5 hydropower schemes. From 5 schemes, will be selected for detailed design and tender
 Settle all Environment Issues Settle all Land Issues Approved Tender Documents Approved Tender Evaluation Report Award Contract Receive Materials 	13.04.12 31.08.12 22.06.12 30.07.12 23.11.12 08.02.13 26.07.13		5.0 5.0 5.0 5.0 5.0 5.0 20.0		S	scheme at Vailoa, Palauli is included under subproje Hydropower Development. There are 5 schemes beir studied under this project. There are 4 hydro schemes selected in Upolu. Implementation Consultant is conducting Feasibili Studies of 5 hydropower schemes. From 5 schemes,

			Total Wt	100			
			Imp.Prog			2.0	
b.	Transmission	-		l	1		
(i)	Puapua-Asau Transmission Lin	e 22kV Reco	onductoring	Project			
1.		15.08.08	25.07.08	2.0	100	2.0	ADB approved Feasibility Study and tender. Materials
2.	Approved Feasibility Study	05.12.08	27.11.08	5.0	100	5.0	
3.		10.04.09	27.11.08	5.0	100	5.0	
4.	Settle all Land Issues	13.02.09	27.11.08	5.0	100	5.0	·
5.	Approved Tender Documents	27.02.09	10.3.09	5.0	100	5.0	
6.	Approved Tender Evaluation	12.06.09		5.0	100	5.0	
	Report						Contract for construction was awarded to Tenix New
7.	•	25.09.09		5.0	100	5.0	Zealand. Contract has been signed. Construction
8.	Supply Materials	18.12.09		20.0	100	20.0	
9.	Complete Construction	12.03.10		43.0			contractor.
10	. Final Report	09.04.10		5.0			
			Total Wt	100			
			Imp.Prog			52.0	
(ii)	Power Factor Improvement Prog	gram				I.	
	Approved Outline	15.08.08	25.07.08	2.0	10	2.0	PF improvement for high voltage lines in Savaii has been
	Approved Feasibility Study	05.12.08	05.01.09	5.0	0		removed from PSEP. PF is high and in an acceptable
3.		10.04.09	05.01.09	5.0	10		level. There is another PF correction project to improve
4.	Settle all Land Issues	13.02.09	05.01.09	5.0	0		PF inside large consumers. This is not part of PSEP.
5.	Approved Tender Documents	27.02.09		5.0	10		PMU and Implementing Consultant is managing
6.	Approved Tender Evaluation	12.06.09		5.0	0		implementation of this project.
	Report	25.09.09		5.0	10		,
7.		18.12.09		20.0	0		
8.	Receive Materials	12.02.10		43.0			
9.	Complete Construction	12.03.10		5.0			
10	Final Report						
			Total Wt	100			
			Imp.Prog			17.0	
(iii	Low Voltage Network Improvem	ent Progran		L		l	
	Approved Outline	06.11.09	31.03.09	2.0	100	2.0	ADB approved Feasibility Study and tender. Contracts
	Approved Feasibility Study	26.02.10		5.0	100	5.0	
	Settle all Environment Issues	02.07.10		5.0	100	5.0	

		1		1		1	
	Settle all Land Issues	07.05.10		5.0	100	5.0	
	Approved Tender Documents	21.05.10		5.0	100	5.0	
6.	Approved Tender Evaluation	03.09.10		5.0	100	5.0	
	Report						
7.	Award Contract	17.12.10		5.0	100	5.0	
8.	Receive Materials	11.03.11		20.0	100	20.0	
9.	Complete Construction	27.07.12		43.0			
10.	Final Report	24.08.12		5.0			
			Total Wt	100			
			Imp.Prog			52.0	
3.	Measurement Equipment						•
(i)	Stream Flow Gauging Equipmen	t					
1.	PMU prepare subproject outline	17.07.08	15.07.08	5.0	100	5.0	Outline was approved by the EPC Board of Directors on
2.	EPC Board approves Outline	31.07.08	25.07.08	10.0	100	10.0	25 Jul 2008. PMU notified ADB and PSC on 11 Aug
3.	PMU notify ADB	07.08.08	11.08.08	2.0	100	2.0	2008. Delay in notification is due to official approval of
4.	PMU notify PSC	07.08.08	11.08.08	2.0	100	2.0	the Board can only be available and confirmed when the
5.	PMU prepares Equipment Specs	07.08.08	01.08.08	10.0	100	10.0	minutes of the previous meeting are approved in the
6.	PMU prepares Tender	14.08.08	80.80.80	10.0	100	10.0	proceeding meeting. This subproject does not need a
	Documents	11.09.08	05.09.08	5.0	100	5.0	Feasibility Study and prior review and endorsement of
7.	PMU calls tenders	18.09.08	09.09.08	5.0	100	5.0	ADB. PMU prepare equipment specification and called
8.	PMU evaluate tenders	25.09.08	16.09.08	10.0	100	10.0	tenders for the supply of equipment. Tender Evaluation
9.	PMU prepares TER	09.10.08	23.10.08	10.0	100	10.0	Report was completed on 18 Sept 2008. ADB endorsed
10.	ADB review and endorse TER	09.10.08	23.09.08	10.0	100	10.0	TER on 23 Oct 2008. EPC Board approved Tender
11.	EPC Board approves TER	23.10.08	23.10.08	2.0	100	2.0	Evaluation Report during its meeting on 23 Sept 2008.
12.	PMU advise Successful bidder	04.12.08		10.0	100	10.0	Withdrawal application for payment is now with ADB.
13.	Successful Bidder supply	11.12.08		2.0	100	2.0	Equipment has not been received.
	equipment	17.09.09		5.0	100	5.0	8 gauges have been installed; 1 left to be installed.
14.	Equipment hand over to	20.11.08		2.0	100	2.0	Installation of rain gauges will be added to this project.
	REU/MNRE						
15.	PMU process payment						
	PMU provide final report						
			Total Wt	100			
			Imp.Prog			100	
	HV/LV Testing Equipment						
	PMU prepare subproject outline	18.07.08	18.07.08	5.0	100		5.0 Outline of this subproject was approved by EPC
2.	EPC Board approves Outline	01.08.08	25.07.08	5.0	100		5.0 Board on 25 July 2008. PMU notified ADB and PSC
3	PMU notify ADB	80.80.80	11.08.08	2.0	100	2	2.0 on 11 Aug 2008. Delay in notification is due to official

		Imp.Prog			I	
		Total Wt	100		22.0	
Final Report						
Complete Construction	22.07.11		5.0			
Receive Materials	24.06.11		43.0			
Award Contract	05.11.10		20.0			
Report	21.05.10		5.0			
	05.03.10				3.0	
						Torrace is advertised.
1 1		31.3.08				Tender is advertised.
Approved Outline	03 04 00	31 3 00	2.0	100	20	ADB approved Feasibility study. ADB approved tender
System Control and Data Acquis	SITION (SCAI	UA)				
0.1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	(00.1				100	
			100			
· · · · · ·						
PMU provide final report	13.02.09	3	5.0	100	5.0	
	21.11.08		5.0	100	5.0	
	16.01.08	31.3.09	10.0	100	10 0	
• •	19.12.00	31.3.08	5.0	100	5.0	ADD. Suppliers received their payments.
			_			
						'
						1
						'
				400		subproject does not need a Feasibility Study a
	15.08.08	18.08.08	7.0	100	7.0	
			_			'
	Approved Outline Approved Feasibility Study Settle all Environment Issues Settle all Land Issues Approved Tender Documents Approved Tender Evaluation Report Award Contract Receive Materials Complete Construction	PMU prepares Equipment Specs PMU prepares Tender Documents PMU calls tenders PMU evaluate tenders PMU prepares TER PMU prepares TER PMU prepares TER ADB review and endorse TER EPC Board approves TER PMU advise Successful bidder Successful Bidder supply equipment PMU receive equipment PMU test & use equipment PMU provide final report System Control and Data Acquisition (SCAI Approved Outline Approved Feasibility Study Settle all Environment Issues Approved Tender Documents Approved Tender Evaluation Report Award Contract Receive Materials Complete Construction 12.09.08 12.09.08 10.10.08 24.10.08 24.10.08 24.10.08 24.10.08 25.12.08 26.09.08 10.10.08 24.10.08 24.10.08 24.10.08 25.12.08 26.09.08 2	PMU prepares Equipment Specs 08.08.08 11.08.08 PMU prepares Tender 15.08.08 18.08.08 Documents 12.09.08 22.08.08 PMU calls tenders 19.09.08 22.09.08 PMU prepares TER 26.09.08 29.09.08 ADB review and endorse TER 10.10.08 15.10.08 EPC Board approves TER 10.10.08 23.10.08 PMU advise Successful bidder 24.10.08 24.10.08 Successful Bidder supply 05.12.08 29.02.09 equipment 19.12.08 31.3.09 PMU receive equipment 16.01.08 31.3.09 PMU process payment 21.11.08 31.3.09 PMU provide final report 13.02.09 Total Wt Imp.Prog System Control and Data Acquisition (SCADA) Approved Outline 03.04.09 31.3.09 Approved Feasibility Study 17.07.09 17.07.09 Settle all Environment Issues 01.01.10 23.10.09 Approved Tender Documents 30.10.09 30.10.09 Approved Tender Evaluation	PMU prepares Equipment Specs 08.08.08 11.08.08 7.0 PMU prepares Tender 15.08.08 18.08.08 7.0 Documents 12.09.08 22.08.08 5.0 PMU calls tenders 19.09.08 22.09.08 5.0 PMU prepares TER 26.09.08 29.09.08 10.0 ADB review and endorse TER 10.10.08 15.10.08 5.0 EPC Board approves TER 10.10.08 23.10.08 10.0 PMU advise Successful bidder 24.10.08 24.10.08 20.0 Successful Bidder supply 05.12.08 29.02.09 10.0 PMU receive equipment 19.12.08 31.3.09 5.0 PMU process payment 21.11.08 31.3.09 5.0 PMU provide final report 13.02.09 5.0 Total Wt 100 Imp.Prog 5.0 System Control and Data Acquisition (SCADA) Approved Outline Approved Feasibility Study Approved Tender Documents Approved Tender Documents Approved Tender Documents Approved Tender Evaluation Report 21.05.10 Award Contract 95.0 5.0 5.0 <td>PMU prepares Equipment Specs 08.08.08 11.08.08 7.0 100 PMU prepares Tender Documents 15.08.08 18.08.08 7.0 100 PMU calls tenders 12.09.08 22.08.08 5.0 100 PMU evaluate tenders 19.09.08 22.09.08 5.0 100 PMU prepares TER 26.09.08 29.09.08 10.0 100 PMU prepares TER 10.10.08 15.10.08 5.0 50 EPC Board approves TER 10.10.08 23.10.08 10.0 100 PMU advise Successful bidder 24.10.08 24.10.08 2.0 100 Successful Bidder supply 05.12.08 29.02.09 10.0 100 PMU receive equipment 19.12.08 31.3.09 5.0 100 PMU process payment 21.11.08 31.3.09 5.0 100 PMU provide final report 13.02.09 5.0 100 Poster Control and Data Acquisition (SCADA) Approved Tender Documents Solution (SCADA) Approved Tender Documents Solution Solution Solution Solution Solution Solution Solution</td> <td>PMU prepares Equipment Specs 08.08.08 11.08.08 7.0 100 7.0 PMU prepares Tender 15.08.08 18.08.08 7.0 100 7.0 Documents 12.09.08 22.08.08 5.0 100 5.0 PMU calls tenders 19.09.08 22.09.08 5.0 100 5.0 PMU prepares TER 26.09.08 29.09.08 10.0 100 10.0 ADB review and endorse TER 10.10.08 15.10.08 5.0 50 5.0 EPC Board approves TER 10.10.08 23.10.08 10.0 100 10.0 PMU advise Successful bidder 24.10.08 24.10.08 2.0 100 2.0 Successful Bidder supply 05.12.08 29.02.09 10.0 100 10.0 equipment 19.12.08 31.3.09 5.0 100 5.0 PMU receive equipment 16.01.08 31.3.09 5.0 100 5.0 PMU provide final report 13.02.09 5.0 100 5.0</td>	PMU prepares Equipment Specs 08.08.08 11.08.08 7.0 100 PMU prepares Tender Documents 15.08.08 18.08.08 7.0 100 PMU calls tenders 12.09.08 22.08.08 5.0 100 PMU evaluate tenders 19.09.08 22.09.08 5.0 100 PMU prepares TER 26.09.08 29.09.08 10.0 100 PMU prepares TER 10.10.08 15.10.08 5.0 50 EPC Board approves TER 10.10.08 23.10.08 10.0 100 PMU advise Successful bidder 24.10.08 24.10.08 2.0 100 Successful Bidder supply 05.12.08 29.02.09 10.0 100 PMU receive equipment 19.12.08 31.3.09 5.0 100 PMU process payment 21.11.08 31.3.09 5.0 100 PMU provide final report 13.02.09 5.0 100 Poster Control and Data Acquisition (SCADA) Approved Tender Documents Solution (SCADA) Approved Tender Documents Solution Solution Solution Solution Solution Solution Solution	PMU prepares Equipment Specs 08.08.08 11.08.08 7.0 100 7.0 PMU prepares Tender 15.08.08 18.08.08 7.0 100 7.0 Documents 12.09.08 22.08.08 5.0 100 5.0 PMU calls tenders 19.09.08 22.09.08 5.0 100 5.0 PMU prepares TER 26.09.08 29.09.08 10.0 100 10.0 ADB review and endorse TER 10.10.08 15.10.08 5.0 50 5.0 EPC Board approves TER 10.10.08 23.10.08 10.0 100 10.0 PMU advise Successful bidder 24.10.08 24.10.08 2.0 100 2.0 Successful Bidder supply 05.12.08 29.02.09 10.0 100 10.0 equipment 19.12.08 31.3.09 5.0 100 5.0 PMU receive equipment 16.01.08 31.3.09 5.0 100 5.0 PMU provide final report 13.02.09 5.0 100 5.0

 EPC Board approved Outline PMU notify ADB PMU notify PSC PMU to implement Final Report 	22.08.08 05.09.08 12.09.08 19.11.15 17.12.15	23.09.08 01.10.08 01.10.08	5.0 2.5 2.5 85.0 5.0	100 100 100 50	5.0 2.5 2.5 34.0	understanding that all the supporting components of
		Total Wt	100		44.0	
(ii) \(\(\) \(\		Imp.Prog			44.0	
(ii) Vending System Expansion	00.40.00	00.00.00	5 0	400	5 0	Occatable and contains one account the tasted in A.D.
EPC Board approved Outline PMI potify ADB	26.12.08 02.01.09	23.09.08 01.10.08	5.0 2.5	100 100	5.0 2.5	Scratch card system was successfully tested in A D
 PMU notify ADB PMU notify PSC 	02.01.09	01.10.08	2.5 2.5	100	2.5	Riley workshop in New Zealand. New card system was successfully launched in February 2010. More than 50
	27.03.09	01.10.06	10.0	100	10.0	shops sell cards in Upolu and Savaii. There are some
 ADB endorses Feasibility Study PSC endorses Feasibility Study 	17.04.09		10.0	100	10.0	problems with new card system that EPC is working to
6. EPC Board approves FS	30.04.09		10.0	100	10.0	resolve.
7. Implementation	24.12.10		45.0	100	45.0	Scratch cards are widely used now.
8. Final Report	24.01.11		5.0	100	5.0	ociatori cards are widely used now.
o. Tillarreport	24.01.11	Total Wt	100	100	0.0	
		Imp.Prog			100	
(iii) Power System Planning Softwar	e	.				
PMU prepare subproject outline	22.08.08	23.09.08	5.0	100	5.0	As part of Northpower's scope of work for replacement
2. EPC Board approves Outline	05.09.08	23.09.08	5.0	100	5.0	of 22kV switchgear in Taelefaga, Lalomauga,
3. PMU notify ADB	12.09.08	01.10.08	2.0	100	2.0	Samasoni, and Tanugamanono power plants, a
4. PMU notify PSC	12.09.08	01.10.08	2.0	100	2.0	variation was approved for NP to conduct a load flow
PMU prepares Software	12.09.08	26.08.08	5.0	100	5.0	study and protection study of Upolu system. NP used

6. PMU prepares Tender Documents Doc	Specification	19.09.08	15.08.08	5.0	100	5.0	EPC DigSilent software for the studies and used this to
Documents T							
7. PMU calls tenders		17.10.00	22.00.00	0.0	100	0.0	
8. PMU evaluate tenders 31,10 08 05,09 08 2.0 100 5.0 100 10.0 10		24 10 08	29 08 08	20	100	20	
9. PMU prepares TER							
10. ADB review and endorse TER 14.11.08 17.09.08 2.0 100 5.0 100 5.0 100 5.0 100 10.0 10							
11. EPC Board approves TER 21.11.08 23.09.08 5.0 100 5.0 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 100 10.0 10							
12. PMU advise Successful bidder 05.12.08 26.09.08 5.0 100 5.0 100 10.							
13. Successful Bidder supply software 12.12.08 15.12.08 10.0 100 10.0 10							
14. Successful bidder installed software 14. Successful bidder installed software 15. Successful bidder provide training 16. PMU take over 19.12.08 31.03.09 10.0 100 10.0							
Software 15. Successful bidder provide training 16. PMU take over 19.12.08 31.03.09 10.0 100 10 10 10 10 10							
Software 15. Successful bidder provide training 16. PMU take over 19.12.08 31.03.09 10.0 100 10 10 10 10 10	14. Successful bidder installed	19.12.08	31.03.09	10.0	100	10.0	
training 16. PMU take over 17. PMU process payment 18. PMU provide final report Total Wt 100 Imp.Prog (iv) Refurbishment of Salelologa Power Station 1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Environment Issues 4. Settle all Land Issues 23.01.09 31.3.09 31.3.09 31.3.09 5.0 5.0 5.0 5.0 5.0 5.0 6. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report Total Wt 100 100 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5							
training 16. PMU take over 17. PMU process payment 18. PMU provide final report Total Wt 100 Imp.Prog (iv) Refurbishment of Salelologa Power Station 1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Environment Issues 4. Settle all Land Issues 2. Approved Tender Documents 5. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report Total Wt 100 Total Wt 100 100 5.0 5.0 5.0 5.0 5.0 5.0	15. Successful bidder provide	02.01.09	31.03.09	10.0	100	10.0	
17. PMU provide final report 30.01.09 30.04.09 5.0							
Total Wt 100 Imp.Prog 100	16. PMU take over	19.12.08	31.03.09	10.0	100	10	
Total Wt 100 Imp.Prog 100	17. PMU process payment	30.01.09	30.04.09	5.0	100	5.0	
(iv) Refurbishment of Salelologa Power Station 1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report Imp.Prog	18. PMU provide final report			5.0		5.0	
(iv) Refurbishment of Salelologa Power Station 1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report Imp.Prog							
(iv) Refurbishment of Salelologa Power Station 1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report Imp.Prog							
(iv) Refurbishment of Salelologa Power Station 1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report 10. Approved Outline 20.01.08 23.10.08 23.10.08 23.10.08 20.01 20.0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5				100			
1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report 1. Approved Outline 07.11.08 23.10.08 23.10.08 20.03.09 31.3.09 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0						100)
2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report 20.03.09 31.3.09 5.0 50 50 50 50 50 50 50 50 50 50 50 50 50					40		
3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Receive Materials 9. Complete Construction 10. Final Report 7. Settle all Environment Issues 07.08.09 31.3.09 5.0 50 50 50 50 50 50 50 50 50 50 50 50 50							
4. Settle all Land Issues 23.01.09 31.3.09 5.0 50 50 50 PMU is redoing feasibility study. Topographic survey of land is carried out. 5. Approved Tender Documents 26.06.09 5.0 50 50 50 land is carried out. 6. Approved Tender Evaluation Report 30.10.09 5.0 5.0 50 land is carried out. 7. Award Contract 02.07.10 20.0 20.0 land is carried out. 8. Receive Materials 03.09.10 43.0 land is carried out. 9. Complete Construction 01.10.10 5.0 land is carried out. Total Wt 100 100					-		
5. Approved Tender Documents 26.06.09 5.0 50 land is carried out. 6. Approved Tender Evaluation Report 30.10.09 5.0 5.0 land is carried out. 7. Award Contract 02.07.10 20.0 land is carried out. 8. Receive Materials 03.09.10 43.0 land is carried out. 9. Complete Construction 10. Final Report 01.10.10 5.0 land is carried out.							
6. Approved Tender Evaluation Report 30.10.09 5.0 7. Award Contract 02.07.10 20.0 8. Receive Materials 03.09.10 9. Complete Construction 10. Final Report Total Wt 100			31.3.09			2.5	
Report 15.01.10 5.0					50		land is carried out.
7. Award Contract 02.07.10 20.0 8. Receive Materials 03.09.10 43.0 9. Complete Construction 10. Final Report							
8. Receive Materials 03.09.10 43.0 9. Complete Construction 10. Final Report Total Wt 100							
9. Complete Construction 10. Final Report Total Wt 100							
10. Final Report Total Wt 100							
Total Wt 100		01.10.10		5.0			
	то. ғіпат кероп						
			Total Wt	100			
			Imp.Prog	100		9.5	

(v) Refurbishment of Taelefaga/Lal	omauga/Sar	masoni/Tanu	ıgamand	no po	ver plan	t 22kV Switchgears
Approved Outline	26.12.08	23.10.08	2.0	100	2.0	
Approved Feasibility Study	03.04.09	31.3.09	5.0	100	5.0	
3. Settle all Environment Issues	14.08.09	31.3.09	5.0	100	5.0	1,
Settle all Land Issues	15.05.09	31.3.09	5.0	100	5.0	
Approved Tender Documents	08.05.09	30.09.09	5.0	100	5.0	, ,
6. Approved Tender Evaluation	04.09.09	00.00.00	5.0	100	5.0	
Report	01.01.10		5.0	100	5.0	
7. Award Contract	03.12.10		20.0	100	20.0	
8. Receive Materials	03.12.10		43.0	75	35.0	
Complete Construction	31.12.10		5.0	, 0	00.0	
10. Final Report	01112110		0.0			
, c		Total Wt	100		87.0	
		Imp.Prog				
	•					
(vi) Refurbishment of Tanugamano						
Approved Outline	19.12.09	27.11.08	2.0	100	2.0	•
Approved Feasibility Study	03.04.09	31.3.09	5.0	100	5.0	,
Settle all Environment Issues	21.08.09	31.3.09	5.0	100	5.0	replaced with a new one. Work started on 9A. There
 Settle all Land Issues 	12.06.09	31.3.09	5.0	100	5.0	, , , , , , , , , , , , , , , , , , ,
Approved Tender Documents	19.06.09	25.06.09	5.0	100	5.0	
Approved Tender Evaluation	25.09.09	30.09.09	5.0	100	5.0	
Report						until Alaoa hydro is back in operation; this scheduled
Award Contract	11.12.09		5.0	100	5.0	
8. Receive Materials	05.02.10		20.0	100	10.0	
Complete Construction	30.07.10		43.0	50	22.0)
10. Final Report	27.08.10		5.0			
		Total Wt	100			
		Imp.Prog			64.0	0
(viii)Vaipu Pump Assisted Scheme		1		T	1	
 Approved Outline 	19.12.08	18.12.08	2.0	100		Subproject is on hold until SMEC completed evaluation
Approved Feasibility Study	08.05.09		5.0	50		of dam if it is safe to take more water for storage. PMU
3. Settle all Environment Issues	25.09.09		5.0			completed Feasibility Study and IEE.
Settle all Land Issues	17.07.09		5.0			
Approved Tender Documents	14.08.09		5.0			
Approved Tender Evaluation	25.12.09		5.0			

Report	12.03.10		5.0			
7. Award Contract	27.08.10		20.0			
8. Receive Materials	29.10.10		43.0			
Complete Construction	26.11.10		5.0			
Final Report						
		Total Wt	100			
		Imp.Prog			4.5	
(ix) Upolu Hydro Investigation						
Approved Outline	30.06.09		2.0	100	2.0	Implementation Consultant under Variation 2 is currently
Approved Feasibility Study	31.12.09		5.0			doing feasibility studies of 5 hydropower schemes;
3. Settle all Environmental Issues	31.12.09		5.0			Faleata, Faleseela, Tafitoala, Fuluasou and Tiapapata.
4. Settle all land issues	31.12.09		5.0			Study started in March 2010. First consultations with
5. Approved Tender Documents	30.06.10		5.0			villages concerned are done. Vailoa for Faleata and
6. Approved Tender Evaluation Report	30.09.10		5.0			Faleseela approved for investigation of schemes to
7. Award Contract	31.10.10		5.0			continue, pending their final decision on the Govt plan to
8. Received Materials & equipment			30.0			build hydropower plants using rivers in the two villages.
9. Complete Construction			33.0			Estimate cost of each scheme is currently being done.
10. Final Report			5.0			Ones EPC and ADB approves top 3 schemes to be built,
To the tropost			0.0			detailed designs and preparation of tenders for 3
						schemes then start. IC submitted a proposal to EPC for
						detailed design.
		Total Wt	100			
		Imp. Prog			2.0	

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Appendix 2 - Electricity Receivables

Appendix 2 - Electricity (
KEY PERFORMANCE INDICATORS	3/31/2010	6/30/2010	7/31/2010	30/06/2010.	9/30/2010	10/31/2010	11/30/2010	12/31/2010	31/01/2011	28/02/2011	31/03/2011
1) Days of Sales	38.1	40.8	40.2	40.2	37.4	38.0	38.2	37.3	41.0	40.3	43.2
PSEP Performance Target								43.2		days	
2) Government Debtors % Government Debt % Government Sales								16.06% 8.26%			
PSEP Performance Target								194.32%		Debt/Sales	

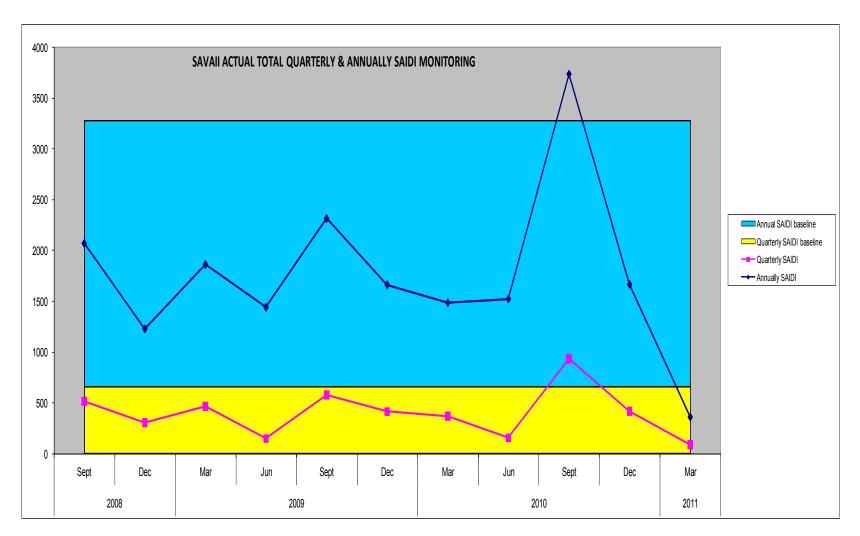
Appendix 3 – Prepayment Meter Installation Projection & Actuals

	Projected	Project		Actual	Actual Total	Actual % of
	Customers	Total	Projected % of	Customers	Numbers of	Customers
	with	Customers	Customers with	with	Customers	with
	Payment		Prepayment	Prepayment		Prepayment
	Meters		Meters Installed	Meters		Meters
Sep	5,000	29,800	16.8%	4,760	31,000	15.35%
Dec	6,940	30,000	23.1%	6,248	31,827	19.63%
Mar	8,190	30,150	27.2%	8,276	32,158	25.74%
Jun	9,440	30,300	31.2%	13,018	39,476	32.98%
Sep	10,690	30,450	35.1%	15,792	39,566	39.91%
Dec	12,065	30,600	39.4%	16,692	33,566	49.73%
Mar	13,300	30,750	43.3%	17,432	34,148	51.05%
Jun	14,560	30,900	47.1%	20,763	35,644	58.25%
Sep	15,815	31,050	50.9%	22,180	36,082	61.47%
Dec	17,080	31,200	54.7%	22,965	36,408	63.08%
Mar	18,330	31,350	58.5%	23,415	36,584	64.0%
Jun	19,580	31,500	62.2%			
Sep	20,830	31,650	65.8%			
Dec	22,080	31,800	69.4%			
Mar	23,330	31,950	73.0%			
Jun	24,580	32,100	76.6%			
Sep	25,830	32,250	80.1%			
Dec	26,230	32,400	81.0%			
	Dec Mar Jun Sep	Customers with Payment Meters Sep 5,000 Dec 6,940 Mar 8,190 Jun 9,440 Sep 10,690 Dec 12,065 Mar 13,300 Jun 14,560 Sep 15,815 Dec 17,080 Mar 18,330 Jun 19,580 Sep 20,830 Dec 22,080 Mar 23,330 Jun 24,580 Sep 25,830	Customers with with Payment Meters Total Customers Sep 5,000 29,800 Dec 6,940 30,000 29,800 30,000 Mar 8,190 30,150 Jun 9,440 30,300 Sep 10,690 30,450 Dec 12,065 30,600 30,450 30,900 30,750 Jun 14,560 30,900 30,750 Jun 14,560 30,900 Sep 15,815 31,050 Dec 17,080 31,200 Mar 18,330 31,350 Jun 19,580 31,500 Sep 20,830 31,650 Dec 22,080 31,800 31,650 Dec 22,080 31,800 Jun 24,580 32,100 Sep 25,830 32,250	Customers with Payment Payment Meters Total Customers Meters with Prepayment Meters Installed Sep 5,000 29,800 16.8% Dec 6,940 30,000 23.1% Mar 8,190 30,150 27.2% Jun 9,440 30,300 31.2% Sep 10,690 30,450 35.1% Dec 12,065 30,600 39.4% Mar 13,300 30,750 43.3% Jun 14,560 30,900 47.1% Sep 15,815 31,050 50.9% Dec 17,080 31,200 54.7% Mar 18,330 31,350 58.5% Jun 19,580 31,500 62.2% Sep 20,830 31,650 65.8% Dec 22,080 31,800 69.4% Mar 23,330 31,950 73.0% Jun 24,580 32,100 76.6% Sep 25,830 32,250 80.1%	Customers with Payment Payment Meters Total Customers Customers with Prepayment Meters Projected % of Customers with Prepayment Meters Installed Customers with Prepayment Meters Prepayment Meters Meters Sep 5,000 29,800 16.8% 4,760 Dec 6,940 30,000 23.1% 6,248 Mar 8,190 30,150 27.2% 8,276 Jun 9,440 30,300 31.2% 13,018 Sep 10,690 30,450 35.1% 15,792 Dec 12,065 30,600 39.4% 16,692 Mar 13,300 30,750 43.3% 17,432 Jun 14,560 30,900 47.1% 20,763 Sep 15,815 31,050 50.9% 22,180 Dec 17,080 31,200 54.7% 22,965 Mar 18,330 31,500 62.2% 23,415 Jun 19,580 31,500 65.8% 23,415 Dec 22,080 31,800 69.4%	Customers with Payment Payment Meters Total Customers Customers with Prepayment Meters Installed Prepayment Meters Meters Installed Customers with Prepayment Meters Installed Meters Meters Meters Installed Meters Meters Meters Meters Installed Meters Mete

Project Target is to get 75% of consumers on Cash Power Meters at end of project in 2016. At end of 1st Quarter of 2011, about 64% of consumers are already on Cash Power. There is 11% needed to meet target. About 2,000 additional meters are needed added to A D Riley's present contract to complete the 75%.

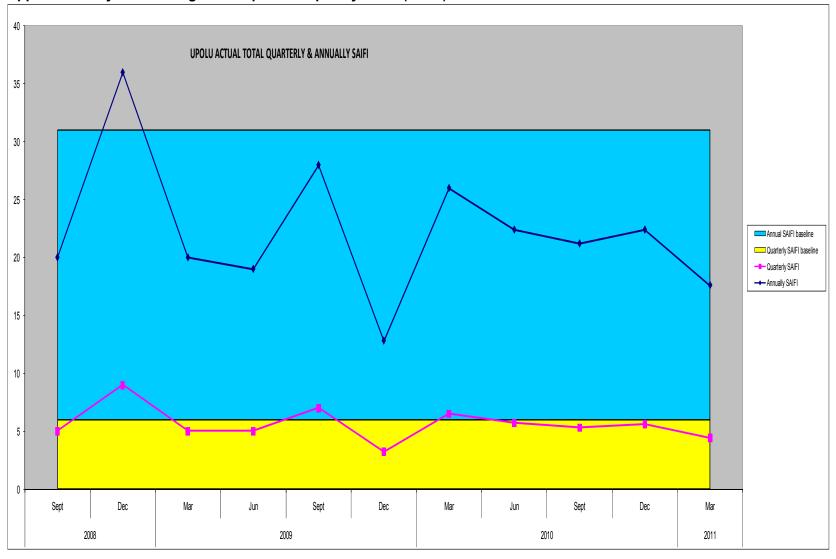
6000 UPOLU ACTUAL TOTAL QUARTERLY & ANNUALLY SAIDI MONITORING 5000 4000 Annual SAIDI baseline Quarterly SAIDI baseline 3000 --- Quarterly SAIDI → Annually SAIDI 2000 1000 0 Sept Sept Dec Sept Dec Mar Jun Mar Jun Dec Mar 2008 2009 2010 2011

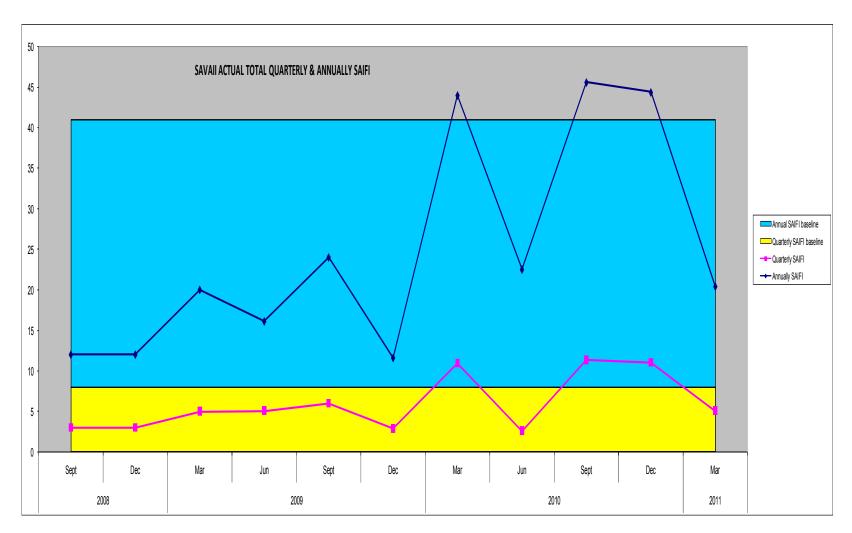
Appendix 4 - System Average Interruption Duration Index (SAIDI) Monitoring



- SAIDI to be reduced by 20% by 2015
- Plan interruption is included since 1st Quarter 2009.

Appendix 5 – System Average Interruption Frequency Index (SAIFI)





- SAIFI to be reduced by 20% by 2015
- Plan interruption is included since 1st Quarter 2009.



Appendix 6 - Memorandum of Understanding of ADB REVIEW Mission in February 2011

LOANS 2368/8232 AND GRANTS 0087/0101-SAM: POWER SECTOR EXPANSION PROJECT ADTA 4494-SAM: IMPLEMENTING THE NATIONAL ENERGY POLICY

AIDE MEMOIRE

REVIEW MISSION

INTRODUCTION

1. A review mission¹ (the Mission) from the Asian Development Bank (ADB) visited Samoa from 13 to 19 February 2011 to review progress on (i) Loans 2368/8232 and Grants 0087/0101-SAM: Power Sector Expansion Project (Project), and (ii) ADTA 4494-SAM: Implementing the National Energy Policy. A list of persons met is included in Appendix 1. A wrap-up meeting was held on 17 February 2011 at Ministry of Finance (MOF). This Memorandum of Understanding (MOU) records the understandings reached between the Government and ADB.

Mission findings

Loans 2368/8232 and Grants 0087/0101-SAM: Power Sector Expansion Project (PSEP)

- 2. The Project was approved by the Board on 21 November 2007, signed on 11 December 2007, and became effective on 19 June 2008. Loan closing is on 31 December 2016. The Project is being cofinanced by Japan International Cooperation Agency (JICA) and the Government of Australia.
- 3. **Contract Awards and Disbursements.** The cumulative commitments and disbursements as of 16 February 2011 are detailed below:

The Mission comprised Anthony Maxwell: Team Leader, Chika Kondo: Project Manager, Japan International Cooperation Agency, Rebecca Salvo: Operations Officer, ADB, Ralph Karhammar: AusAID Consultant

Fund Source	Loan/Grant Amount – Current Value	Contract Awards	%	Disbursements	%
	(\$ million)	(\$ million)		(\$ million)	
2368-SAM (ADB Loan)	26.548	16.001	60%	5.288	20%
8323-SAM (JICA Loan)	38.000	22.185	74%	7.880	21%
0087-SAM (ADB Grant)	15.390	6.282	41%	2.620	17%
0101-SAM (AusAID Grant)	8.000	7.603	95%	2.507	33%
	87.974	52.071	59%	18.295	21%

- 4. Between February 2010 and February 2011, contract awards rose from 10% to 59% and disbursements rose from 5% to 21%. Both contract awards and disbursements are projected to reduce in 2011, as presented in Appendix 2 and 3.
- 5. **Loan Buy Down Mechanism.** The Project includes a loan buy down mechanism² of \$4 million for conversion of loan to grant, funded by AusAID. A summary of progress towards the performance targets is presented below.

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² Loan Buydown Agreement between the Government of Australia and Asian Development Bank with respect to the Power Sector Expansion Project Loan in the Independent State of Samoa, 19 February 2008

Table 1: Progress on the Loan Buy Down Mechanism Triggers

Triggers	Progress			
Appointment of an independent technical and price regulator for the power sector	The Electricity Act was passed in December 2010. TA 4994-SAM: Implementing the Samoa National Reform Energy Policy (grant financed by AusAID) supported drafting of the Electricity Act and Regulations. MoF intends to hire a power regulator by June 2011. TA 4994 has been extended to June 2011 to provide assistance with establishing the power regulator. MOF has indicated that allocation for the power regulator will be allocated in the 2011/12 budget.			
2. Improvement of Electric Power Corporation (EPC) debt collection performance such that accounts receivable shall not have exceeded 2 months of electricity sales for a minimum of two years	Receivables are 37.3 days as of January 2011. Receivables have remained below 2 months since 30 September 2007 (3.3 years). Current data for receivables is presented in Appendix 4. Compliance with this loan buy down trigger has been achieved.			
3. Usage of prepaid meters by 75% of all EPC's electricity customers by 31 December 2012	Currently an estimated 61% of EPC's customers are using prepaid meters. The installation of prepaid meters is on-going. Installation projections for prepaid meters are included in Appendix 5. Installation targets are currently being met.			

- 6. **Conversion of Loan to Grant.** The Project Report and Recommendation to the President (RRP) para. 47 and para. 8 (c) of the Subsidiary Financing Agreement³ allows for up to 7% of Project costs or a ceiling of \$10 million to be converted from loan to grant by MOF to EPC. Section 6.01 (b) of the Financing Agreement⁴ requires a conversion mechanism to be established. EPC and MOF have discussed options for triggers under the loan buy down mechanism would be suitable for conversion of the loan to grant. MOF agreed to finalize the mechanism for approval by the next Project Steering Committee.
- 7. **PMU Staffing**. Implementation of civil works on a number of large projects has commenced. The EGIS-BCEOM consultant supervision contract will expire in second quarter 2011. The Mission discussed construction supervision capacity with the PMU and expressed concern that current staffing levels were insufficient to adequately manage construction supervision. It was agreed that additional experienced

³ Subsidiary Financing Agreement (Power Sector Expansion Project) between Independent State of Samoa and Electric Power Corporation, 16 June 2008

⁴ Financing Agreement between Independent State of Samoa and Asian Development Bank for the Power Sector Expansion Project, 11 December 2007

staff are required to manage construction supervision and EPC confirmed that they will hire 3 additional fulltime construction supervision consultants for the duration of relevant subproject implementation⁵.

- 8. **Fiaga Powerplant**. Contract SAM-PSEP-12/03A was signed with Bluebird AhLal in association with Mitsubishi Heavy Industries and Wood Pacific (BBA) on 10 November 2010 for USD26,681,042 for Design, Manufacture, Supply, Construct, Install and Commission of Fiaga Power Station. ADB received a letter from the Minister of Finance on 20 December 2010 proposing to partially change the currency of payment from USD to NZD and Yen. ADB responded advising that payment for Contract SAM-PSEP-12/03A should be made according to the currency schedule included in the accepted bid of BBA, in accordance with ADB Procurement Guidelines para 2.32 which states "Payment of the contract price shall be made in the currency or currencies in which the bid price is expressed in the bid of the successful bidder." In response to statements made by BBA to the Project Steering Committee in January 2011 regarding reluctance to continue with implementation of Contract SAM-PSEP-12/03A, the Executing Agency (MoF) agreed to continue discussions with BBA to bring the matter to a conclusion as soon as possible.
- 9. **Imprest Account**. The letter to ADB from the Minister of Finance on 20 December 2010 also requested establishment of an imprest account for the Project. The Mission discussed the option of establishment of an imprest account with the PMU and was advised that it was no longer required.
- 10. **Office of Anti-corruption and Integrity (OAI) Project Review**. The Mission advised the Government and EPC that OAI had randomly selected the project for review. Initial site visits by OAI are anticipated by March 2011.
- 11. **Subproject Prioritization**. The Mission discussed prioritization of remaining subprojects with the PMU. The PMU advised that the remaining budget may be insufficient to finance all remaining subprojects, including the proposed small hydropower subprojects. It was discussed that the small hydropower projects may be suitable for external grant financing by other development partners.

TA 4494-SAM: Implementing the National Energy Policy

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⁵ One international generation engineer, one international transmission engineer, and one international civil engineer, all with extensive project construction supervision experience.

12. TA 4994-SAM consists of the following components (i) Component 1: Establishment of the Clean Energy Fund (CEF), (ii) Component 2: Establishment of the Designated National Authority (DNA), (iii) Component 3: Regulatory and Policy Reform in the Power Sector, and (iv) Component 4: Resident Financial Management Advisors to EPC. Activities under Component 1, 2 and 4 have been completed. The closure of TA 4994-SAM has been extended to June 2011 to allow final activities to support establishment of the power regulator under Component 3. ADB agreed to assess the remaining budget to support (i) a final mission by one financial management advisor to EPC in March 2011, and (ii) office equipment to the power regulator.

III. CONCLUSION

13. The Mission would like to express its appreciation for the cooperation and the hospitality extended by the GoS and EPC. It is understood that the points of agreement and recommendations as reflected in the Aide Memoire are subject to the approval of higher authorities in GoS and ADB.

Signed in Apia, Samoa 18 February 2011

Anthony Maxwell

Team Leader

Asian Development Bank

List of Persons Met

Ministry of Finance

Mr. Iulai Lavea Chief Executive Officer

Ms. Noumea Simi Assistant CEO, Debt Management

Ms. Justina Sau Assistant CEO, State Enterprise Monitoring Division

Ms. Silia Kilepoa Ualesi Energy Coordinator, Economic Policy and Planning Division

Electric Power Corporation

Mr. Mua'ausa Fiu Joseph Walter Chief Executive Officer

Mr. Vui Lance Lameko Manager, Corporate Services

Mr. Galumalemana Tologata Tile

Lei'a Tuimalealiifano Project Manager, PMU

Mr. Tupai Fui Mau Simanu Generation Engineer, PMU

Mr. Taulealeausumai Tiotio Transmission & Distribution Engineer, PMU

Ms. Faalepo Solofa-Lemisio Project Accountant, PMU

Mr. Alfred Matatia Civil Engineer, PMU

Ms. Raema Schuster Electrical Engineer, PMU

Ms. Nuulopa Pereira Power System Planner, PMU

Mr. Mathew Lemisio Environment and Legal Advisor, PMU

Ms. Moetuasivi S Asiono PR and Community Specialist

Mr. Seukeva Asi Tiatia Land Acquisition and Resettlement Specialist

Mr. Wairarapa Young Renewable Energy Officer

Attorney General's Office

Mr. Peter Bednell Lawyer

Australian Agency for International Development (AusAID)

Ms. Frances Schuster Senior Program Manager

Other

Ms. Maeva Betham-Vaai ADB/World Bank Group Focal Officer

Mr. Fonoti Perelini Perelini Team Leader EGIS-BCEOM

Mr. Brendan Heggarty Generation/Transmission Specialist EGIS-BCEOM

Mr. Kazuyoshi Mori JICA Technical Advisor

Mr. Shimpei Tomita JICA Technical Advisor

Mr. Yosuke Suezawa JICA Technical Adviso