

Australian Government

AusAID





# POWER SECTOR EXPANSION PROJECT

ADB LOAN Nº2368
ADB GRANT Nº0087
JBIC LOAN Nº8232
AUSAID GRANT Nº0101





Quarterly Progress Report No. 13
2nd Quarter 2011
(April to June 2011)





# 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

## Distribution List

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#### 1. EXECUTIVE SUMMARY

This is the Quarterly Progress Report No. 14 and it covers the project activities and progress for the 3rd Quarter 2011 from July 1 to September 30, 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 ADB/JICA/AussieAid Mission this Quarter. They ran through status of each subproject. There were extensive discussions between Mission Team and PSEP PMU and EPC as well as Attorney General. ADB Anti-corruption Committee started their review of PSEP in June, this Quarter. Committee consists of 2 ADB officials, 3 from accounting firm Price Waterhouse from New Zealand and official from Government Audit Office. Committee reviewed 2 projects; Fiaga Power Plant, Access Road to Fiaga Power Plant and Upgrade Stage 1 of Alaoa Feeder and Hospital Feeder.

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. ADB reviewed and submitted its comments on FS of Faleseela Hydro Scheme. IC is completing this FS.

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 is still pending. Issue is variation which exceeded allowable percentage without ADB approval. ADB is still reviewing and have not submitted its decision. EPC paid final payment to avoid payment of penalty for late payment.

Construction continued on Hospital Feeder Upgrade Stage 2 to upgrade the feeder from 6.6kV to 22kV. Feeder high voltage cable is underground from Tanugamanono power plant to Savalalo and continued overhead to Mulinuu. Overhead mounted transformers will be left overhead except replacing 6.6kv transformers with 22kv ones. LV network will also remain overhead. Contractor is Bluebird Ah LAL JV. Construction and installation of cables to tie the feeder to switchgear inside power plant is carried out by EPC. About 90% of trenching and installation of conduits is complete. Most of vaults and road crossings are also completed. Construction is a very challenging because it is done in middle of most busy business area of Apia. There were no major land issues other than carrying our surveys to determine legal boundaries. Some families have encroached legal boundaries. Arrangements were made for them to move their fences out of legal boundary of the road. There are some variations to contract due to extra work.

Construction of 650 meters of underground section of Alaoa and Fale Ole Fee transmission line is 60% complete.

Construction continued on Reconductoring of Upolu 22kV Powerlines. There are 5 feeders included; West Coast Feeder, South Coast Feeder; East Coast Feeder; 33kv tie from Lalomauga hydro to the Tanugamanono power plant; and Transmission line from Alaoa and Fale Ole Fee hydro plants to Tanugamanono power plant. Contractor is GMA. 40% of the work is completed.

Contractor for reconductoring of the Puapua to Asau 22kV Powerline in Savaii has been completed and final payment made.

Refurbishment of the Alaoa hydro plant by Tenix is complete and machine is in operation. Silva Transport Ltd have not completed all of the civil work contract. Outstanding work is repair of access road to the headpond.

On installation of prepayment meters; conversion to PPM is continuing. All new installations are installed with prepayment meters. \_\_\_ customers were installed with PPM during this 3<sup>rd</sup> Quarter 2011. \_\_\_ are new electric installations and \_\_\_ are conversion from induction meters.

The \_\_\_\_ customers converted and installed with Prepayment Meters this Quarter brought the total number of customers converted to Cash Power under ADR's contract to 18,922 meters; this is 90.1% of the total 21,000 meters to be converted to Cash Power under A D Riley's contract. This left only 2,078 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 23,688 or 64.67% of total number of electric meters of 36,634. 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 needs to order 1,782 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. There is an increasing number of defective meters under A D Riley's contract. At end of June this year over 600 meters are defective. Most of defective meters have blank screens. This is a major concern because these defective meters with blank screens continue to supply power to these consumers without topping up. Problem has been brought up to A D Riley but so far, they have not come up with a solution. Because of this problem and cost of meters from A D Riley, PMU is seeking other supply of cash power meters. PMU solicited quotes from 3 suppliers to supply 2,000 single phase meters and 100 three phase meters without current transformers.

A total of \_\_\_ Cash Power meters were lowered this quarter. Total number of meters lowered so far is 3,590 or about 32.6% of total number of meters to be lowered under A D Riley contract. Subcontractors lowered these meters as they are converted to Cash Power or during maintenance of meters. For all new installations, consumers install their meters at 1.6 meters, so it did not require subcontractors to lower them. EPC have taken over installation of Cash Power meters for new installations. 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.

Scratch cards are widely used now with more outlets set up by EPC in villages to sell these cards. EPC is signing a contract with National Bank of Samoa for bank to introduce a new system where by customers with accounts with NBS could buy top up tokens through texting the bank. Cost of token will be deducted directly from customer's bank account. Customers don't need to leave their houses to purchase top up tokens.

Remaining new 22kv switchgear for Lalomauga hydro has arrived. Installation by Northpower Nz Ltd is scheduled in October this year. This is part of Taelefaga/Lalomauga/Samasoni/Tanugamanono 22kv Switchgear replacement contract.

For refurbishment of Tanugamanono diesel generators Units 5A and 9A, later is completed. Work on 5A has not started. Unit 7A, not part of contract, failed from damaged crankshaft. Because of urgency to get 7A repaired, EPC requested ADB for approval to use overhaul parts of Unit 5A on 7A. ADB approved it. EPC bought a replacement crankshaft for Unit 7A. Unit 5A is still running. EPC will later buy overhaul parts for 5A after 7A is back in operation.

Construction of Fiaga's Power Plant Lot A continued. All engine concrete pads, floor, tie beams of floor, building column footings have been poured. All structure steel has been received. Contractor is targeting October 29 to complete engine foundations and building ready for arrival of engines and generators to start installation. Factory testing of alternators in Hyundai factory in South Korea and 4 new engines in Mitsubishi factory in Yokoama were successfully completed. Four of EPC's maintenance staff attended a 3-long week long training in Japan during factory testing. They have returned. EPC did not send any engineers for factory testing of engines and alternators eventhough they were supposed under the contract. There was a misunderstanding with contractor.

All Medium Voltage equipment for Lot B contract of the Fiaga's New Power Plant arrived in Apia. Because switchgear room of power house is not complete, switchgear will be placed on storage. 415 volt distribution panel, backup generator, and concrete ducting for cable installation also arrived from NZ. These will be put on storage.

Construction of Hospital Feeder Upgrade Stage 2 continued. Contractor is Bluebird Ah LAL JV. About 90% of all trenching and laying of electrical conduits is complete; same with installation of vaults. Construction of this project has been very challenging because the underground runs through the business area of town. Work is carried out during business hours from Monday to Friday. Little work is done on weekends. Included with this project is trenching and installation of conduits for a section of the 33kv underground tieline from Fuluasou substation and Tanugamanono as well as 22kv transmission underground line from Samasoni hydro to Tanugamanono power plant. Underground still uses pole mounted transformers; but existing 6.6kv transformers will be replaced with new 22kv units. Installation and termination of cables is scheduled to start in August.

Construction continued 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 period is one year. Scope covers replacing existing conductors to a large one, replace rotten poles and cross arms, straighten leaning poles, and relocation of about 7.0 kilometers of the Lalomauga 33kV tie line from mountain to the side of the main east coast road for ease of access for maintenance. 30% of total work is complete and about same percentage of contract time is used up. Work is progressing well. Contractor only uses two crews of 10 men each. Contractor is supposed to use 3 crews and he has been told to provide a 3<sup>rd</sup> crew. Contractor has a shutdown each day, Monday to Friday.

For the Upolu Low Voltage System Improvements, materials and related equipment have started to arrive. Construction has not started. EPC will carry out construction in house.

Feasibility Study of the Savaii new power plant in Vaiaata to replace the Salelologa power plant is revised based on ADB comments. New power plant will house two new medium speed base load machines and three existing generators from Salelologa refurbished before installing them in 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.

**Table 1** below provides a summary of Withdrawals Application and Disbursements at end of this Quarter for different subprojects:



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) Loan Buy Back Agreement between MOF and EPC No activity.

#### 2. INTRODUCTION

This is the Quarterly Progress Report No. 13 and it covers the project activities and progress for the period from April to June 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:	2368
ADB Grant Number:	0087
JBIC Loan Number:	8232
	0101
AUSAID Grant Number:	
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 <sup>st</sup> November 2007
Date Loan Signed:	11 <sup>th</sup> December 2007
Date of Loan Effectiveness:	19 <sup>th</sup> June 2008
Loan Closing Date:	31 <sup>st</sup> 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.

#### 2.8 Project Financing and Counterpart Funding

Detailed Cost Estimate by Financier at 19 June 2008 - (US\$ millions)

		ADF L	oan	ADF G	Grant	JBIC Loan		Governi Aust		EP	С	Cost
		\$	%	\$	%	\$	%	\$	%	\$	%	
Α.	Investment Cost											
	<ol> <li>Land Acquisition and Resettlement</li> </ol>	0.00	0.0	0.00	0.0	0.00	0.0	1.53	35.0	2.84	65.0	4.38
	<ol><li>Civil Works</li></ol>	3.47	47.5	0.00	0.0	3.09	42.2	0.00	0.0	0.75	10.3	7.31
	<ol> <li>Equipment Supply and Installation</li> </ol>	18.99	30.8	8.42	13.7°	28.98	47.0	5.22	8.5ª	0.00	0.0	61.61
	<ol><li>Consultant Services</li></ol>	0.00	0.0	4.57	94.9	0.00	0.0	0.00	0.0	0.25	5.1	4.82
	<ol><li>Taxes and Duties</li></ol>	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	1.89	100.0	1.89
	Subtotal (A) <sup>b</sup>	22.46		12.99		32.07		6.76		5.73		80.00
В.	Contingencies											
	<ol> <li>Physical<sup>c</sup></li> </ol>	1.31	28.1	0.76	16.2	1.87	40.1	0.39	8.4	0.33	7.2	4.67
	2. Price <sup>d</sup>	2.84	28.1	1.64	16.2	4.06	40.1	0.85	8.4	0.72	7.2	10.12
	Subtotal (B)	4.15		2.40		5.93		1.25		1.06		14.79
c.	Financing Charges During Implementation®											
	<ol> <li>Interest During Construction</li> </ol>	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	5.21	100.0	5.21
	Subtotal (C)	0.00		0.00		0.00		0.00		5.21		5.21
To	otal Project Costs (A+B+C) <sup>f</sup>	26.61		15.39		38.00		8.00		12.00		100.00
	% Total Project Costs		26.6		15.4		38.0		8.0		12.0	

ADF = Asian Development Fund, EPC = Electric Power Corporation, JBIC = Japan Bank for International Cooperation.

The overall financing percentage will be 22.2% for the ADF grant and the Government of Australia grant. The financing percentage for the ADF and Government of Australia grant proceeds will be changed over years as follows: (i) the financing percentage for the ADF grant will be 7.7% (rounded to 7%) for FY2008–FY2012 and 22.2% (rounded to 22%) thereafter; and (ii) the financing percentage for the Government of Australia grant will be 14.5% (rounded to 15%) for FY2008–FY2012 and zero thereafter. For disbursement purposes, the financing percentages will be rounded.

n May 2007 prices.

Computed at 14% for hydropower, 10% for system control and data acquisition, and 5% for other subprojects.

d Computed at average annual rate of 1.7% on foreign exchange costs and 3.9% on local currency costs over the 2008–2015 investment plan.

Includes interest during construction, computed at the 6.5% relending rate from the Government to the Electric Power Corporation and including an interest rate of 1% during grace period and 1.5% thereafter, which will be settled through cash payments on the Asian Development Fund loan portion.

Includes taxes and duties of \$2.18 million. Interest during construction for the ADF loan will be settled through cash payments.

Source: ADB 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 inspection. 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.

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.

EPC advertised for two senior experienced engineers; a power generation and a power distribution engineer. No appointment was made.

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 1<sup>st</sup> Quarter 2011:

- 1. Access road and water pipeline to Fiaga new power plant 90% completed.
- 2. Levelling and preparation of site for new power plant 80% completed.
- 3. Construction of security fence around Fiaga property 10% 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 30% completed.
- 6. Refurbishment of the Alaoa hydro plant and civil work 100% completed.
- 7. Reconductoring of Puapua to Asau 22kv Overhead line 95% 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 re-started work on site, manufacture of generators and associated equipment are about 50% completed. Recent tsunami disaster in Japan followed with nuclear plant meltdown did not affect delivery time of the engines and equipment. Delivery is still on scheduled to arrive in Apia on October.
- 11. Electrical switchgear switchgear was successfully tested in factory in Germany. Equipment is now being shipped to Apia.
- 12. Construction of 33kv underground cables from Fiaga to Fuluasou substation and Tanugamanono is delayed due to change in design which would change materials required. For the two 33kv circuits, one will be underground as originally planned and other circuit remain aerial but using concrete poles.
- 13. 22kv underground cable from Fuluasou to Apia wharf 70% of installation of electrical conduits is completed. This was done as part of the 4 lane road corridor project with Ott Transport as main contractor. Materials are being ordered.

- 14. 33kv underground transmission line from Fiaga new power plant to Fuluasou substation and continuing to Tanugamanono power plant line was redesigned to underground one 33kv circuit and overhead the other circuit and using concrete poles. Bid for cables and poles were cancelled. These items will be rebided.
- 15. Prepayment meters 90% completed. There is an increasing number of defective meters with blank screens. Contractor, A D Riley has been notified for a solution but they have come up with a solution.

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

Implementation Consultant's (Egis International) contract ended at end of May 2011 and is not being extended except for the extension of Team Leader's contract for 6 months to end in November to allow for completion of the feasibility studies of 5 hydro schemes and tender documents of 3 schemes which is currently being prepared by IC. TD/Generation engineer's contract ends at end of July. Administrative Assistant contract was extended from May till end of August.

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

2nd QUARTER 2011 ACTUAL	3rd QUARTER 2011 PLAN

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NAME	DESIGNATION	START	FINISH	START	FINISH	COMMENTS
Tologatā Tile Tuimalealiifano	Project Manager	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Taulealea Aumalaga Tiotio	Transmission& Distribution Engineer	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Tupai Mau Simanu	Generation Electrical Engineer	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Nuulopa Pereira	Graduate Engineer - Power System Planner	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Faalepo Solofa	Project Accountant	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Mathew Lemisio	Legal Environment Advisor	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Seukeva Asi Tuuau	Land Acquisition Specialist	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Seumalo Afele Faiilagi	Environment Specialist	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Moetuasivi Asiono	PRCS	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Raema Schuster	Graduate Engineer – SCADA	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Sila	Electrical Inspector	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Posi Moe	Linesman	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Elisapeta Collins	Secretary	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter
Alfred Matatia	Graduate Civil Engineer	1 Apr. 2011	30 Jun 2011	1 Jul 2011	30 Sept. '11	Will be available for whole 3 <sup>rd</sup> quarter

#### 3.3 Implementation Consultants Personnel Movement

The Implementing Consultants continued to fulfil their tasks under the contract to assist PMU. A total of 6 staff from IC worked on the Project during 2nd Quarter, 2011. Only 3 were fulltime. Rest worked from IC's home office. This included additional experts involved with hydro development feasibility study under Variation 2. IC's TD/Generation Engineer's contract will end at end of July. He will return to New Zealand. Team Leader's contract ends at end of November 2011. Administrative Assistant's contract ends at end of August.

Table below provides number of days worked in each month and combined for 2nd Quarter 2011 for each of IC personnel.

			Days	Days	Days	Days
		Contract	work in	worked in	work in	worked on
No.	Team Members	man-month	Apr.	May	June	2nd Quarter
	Team Leader / Construction Engineer: PERELINI,					
1	Perelini	36	19	22	20	61
2	Generation Engineer: HEGERTY, Brendan	4	0	0	0	0
3	T&D Engineer: HEGERTY, Brendan	12	17	21	20	58
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	22	20	60
8	Hydro Expert/Coordinator: GIRAUD, Dominique	4.3	9	6	7	22
9	Hydro Expert: GINON, Laetitia	2.87	5	0	3	8
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	0	0	0	0
13	Civil Engineer (National); PERELINI, Peri T	4.75	5	5	2	12
14	Environment Specialis (National): SESEGA, Sam	3.17	5	0	1	6
15	Land Resettlement (National): SESEGA, Sam	3.17	5	1	1	7

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.

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. He was also greatly involved in the supervision and management of construction projects to assist PMU engineers assigned by Project Manager to coordinate each of projects. This is same with the TD/Generation Engineer. Administrative Assistant filled in for PMU secretary who was on maternity leave during this quarter.

# 3.4 Egis Bceom International Personnel Remaining Man-months at end of 2nd Quarter, 2011

			Days	
		Contract	worked Q2	Remaining
	Expert	man mns	2011	man-mn Q2
	Team Leader / Construction Engineer: PERELINI,			
1	Perelini	36	61	4.8
2	Generation Engineer: HEGERTY, Brendan	4	0	0
3	T&D Engineer: HEGERTY, Brendan	12	58	1.05
4	SCADA Engineer: PONS, Bernard	3	0	0
5	Environment Specialist: ADAMSON, Charles	4	0	0
6	Resettlement Specialist: WILLIAMS, Jean	4	0	0
7	Administrative Assistant: POE, Penelope	36	60	2.09
8	Hydro Expert/Coordinator: GIRAUD, Dominique	4.3	22	0.626
9	Hydro Expert: GINON, Laetitia	2.87	8	0.03
10	Hydologist 1: DAVAL, Emmanuel	2.75	0	0
11	Hydrologist 2: PYRON, Nelly	2	0	0
12	Civil Engineer (Int): GUERPILLON, Herve	3.58	0	0
13	Civil Engineer (National); PERELINI, Peri T	4.75	12	1.28
14	Environment Specialis (National): SESEGA, Sam	3.17		0.26

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

2ND QUARTER 2011 ACTUAL	PLAN for 3rd QUARTER 2011
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NAME	DESIGNATION	START	FINISH	START	FINISH	COMMENTS
Perelini S.	Contract/Construction	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	Available for whole of 3rd Quarter
Perelini	Engineer (Team Leader)					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. His contract with Egis International expires at end of November 2011.
Dominique Giraud	Power System Planner	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	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 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	His contract will end at end of July and he plans to move back to New Zealand.
Brendan	Generation Engineer	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	His contract will end at end of July

Hegerty						and he plans to move back to New
riegerty						Zealand.
Charles	Charles Adamson	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	He completed his involvement with
Adamson		-			-	project.
Jean	Resettlement Spec	01 Apr 2011	31 Jun. 2011			She completed her involvement with
Williams						project.
Bernard Pons	SCADA Engineer					He completed his involvement with project.
Penelope Poe	Administrative Assistant	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	Her present contract with Implementation Consultants ends at end of Aug. this year.
Dominique Giraud	Hydro Expert & Coordinator	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	He continued to direct project and coordinates preparation of feasibility studies and completion of FS reports for 5 hydros and tender of 3 selected hydros.
Ginon Laetitia	Hydro expert	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	She continued to assist with preparation of feasibility studies of 5 hydros and tender document of 3 schemes.
Emmanual Daval	Hydrologist					He completed his work on Project
<b>Nelly Pyron</b>	Hydrologist					She completed her work on Project.
Herve	International Civil	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	Continues to assist with hydro
Guerpillon	Engineer					feasibility studies.
Peri Perelini	National Civil Engineer	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	Worked and continues to work on hydro study and tender documents.
Sam Sesega	National Environmentalist	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	Worked on hydro feasibility studies
Sam Sesega	National Resettlement Specialist	01 Apr 2011	31 Jun. 2011	01 Jul. 11	30 Sept 11	Worked on hydro feasibility studies

#### 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". 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 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 Contractor at end of this Quarter.

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

A total of 273 prepayment meters were installed by A D Riley's subcontractors during this Quarter. This number of prepayment meters is made up of 51 new installations and 222 customers converted from induction to prepayment meters. This brought the total number of meters installed under this contract at end of the 2nd Quarter is 18,922; which is 90.1% 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 June 2011 is 23,688; which is 64.67% of total number of EPC electric customers of 36,634.

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 June. ADR continues 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. 131 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.

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.

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 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 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 2nd Quarter 2011, there is 1,782 meters remained to be installed to complete ADR's contract and 4002 meters to be installed to achieve 75 % figure of consumers on prepayment meters.

Table below shows meters installed by each sub-contractor during the 1st 2010 and 2<sup>nd</sup> Quarters 2011:

No.	Subcontractors	Meters installed in Jan 2011	Meters installed in Feb 2011	Meters installed in Mar 2011	Meters installed in Apr. 2011	Meters installed in May 2011	Meters installed in June 2011
1	All Electrical	0	0	0	0	0	0
2	McLean Electrical	192	131	127	131	59	83
3	Telecom. Tronics Ltd.	0	0	0	0	0	0
Tot	al meters installed each month	192	131	127	131	59	83

Breakdown below are meter lowered during 1st Quarter 2010 and 2nd Quarter 2011:

Categories	Cable length	Q1 - 2011 Quantity	Q2 – 2011 Quantity
1	0-5 meters	134	94
2	5-10 meters	36	19
3	> 10 meters	2	3
4	no cable needed	0	0
	Lowered during maintenance		15
	Total meters lowered	172	131

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

Only 3,590 meters or 32.6% 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 Installation and civil work are completed and machine is in operation.

#### (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 and construction of building footing and generator foundations. Planned completion date is October 29, when the 4 engines and generators arrive.

Design and preparation of construction drawings is 50% complete.

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

#### Fiaga power station electrical switchgear (Lot B)

All medium volt switchgear was successfully tested in factory in Germany in May. Equipment is now being shipped. Transformers is made in Indonesia but have not confirmed when they will be ready for factory testing.

#### Fiaga access road and water pipeline and fence

Construction continued. Contractor, Silva Transport Ltd, completed 90% of the access road and pipeline. They started constructing fence.

Road was officially dedicated in June by the Prime Minister and coincided with the groundbreaking of start of construction of the powerhouse.

#### Water source

Investigation of where to drill a new well is on hold. Hydrological information available so far is inadequate to rightly locate where to drill the new well. In meantime water for the power plant will be collected from rain. Million liter storage tanks will be built to store rainwater collected from roof of the power plant.

(iv) Refurbishment of 9A and 5A Generators at Tanugamanono Power Plant MAN, contractor, completed refurbishment of first generator, Unit 9A. Generator is back in operation. EPC has not scheduled when MAN starts overhaul of Unit 5A until Alaoa hydro plant is back in operation.

Replacement of 22kv switchgear in Taelefaga, Lalomauga, and Samasoni hydro plants and Tanugamanono power plant by Northpower is complete. 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. Contractor has written numerous letters to PMU to follow up payment. Anti Corruption review of the power sector project is also reviewing this project and outstanding payment.

# (ii). 33 kV Underground Cable from Fiaga Power Station to Fuluasou Substation Contracts were awarded in the last Quarter Q1 2011 for the supply materials for the project. Due to change in design of the transmission line, cables, poles, and hardware materials will be rebided. Change on design will have one circuit of the 33kv TL built underground and second circuit is built overhead using concrete poles. EPC will do the work.

#### (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. Construction continued.

90% of trenching and laying of electrical conduits and installation of vaults is complete. Contractor is planning pulling of cable and splicing it. Contractor brought in one cable splicer to assist with installation of cables.

#### (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. ADB approved recommendation by Committee who to award contract to Northpower and the submitted a No Objection Letter. Government Tender's Board and Cabinet approved it. Notice of award has been submitted to Northpower NZ Ltd.

#### (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 installed underground. We received vehicles and equipment to be used by EPC for construction.

(vii). Fuluasou Substation to Leulumoega via Vaigaga 22kV Underground Cable This subproject is removed from Project. All powerlines will be installed overhead for this feeder.

#### (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 continued. Contractor is GMA. They completed about 35% of the total work. Two crews of 10 men each are currently being used. More trained linemen is needed to set up another crew. GMA and EPC sorted out problem that caused delays in switching power off during shutdowns. GMA schedule a shutdown each working day. There are no shutdowns on Saturdays.

#### 2. Savaii

#### a. Generation

#### (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 potential schemes in Upolu and Savaii. 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

Contractor is Tenix NZ Ltd. They subcontracted a local contractor for the works. Tenix only has construction supervisor on site. About 90% of the work is completed. Contract will be completed at end of August.

#### (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**

Project is being tendered. Tender closes on 15th of August. Over 14 companies bought tender documents.

#### **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. National Bank of Samoa proposed a new system using their bank for consumers to buy top up tokens without using scratch cards or buying from EPC outlets. NBS has a multi million law suite against EPC related to this new system. Office of Attorney General has taken over discussions with the bank attorney to settle the case outside of court.

#### (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 maintain a depot in Salelologa for its power distribution, customer service and administration office. With the power plant located in Vaiaata, a new substation will be built in Salelologa to introduce

additional distribution feeders. A Mini Control Center will be set up in Salelologa to monitor and operate the Savaii network. Feasibility Study for all these works is being prepared.

Planning of the new power plant tender has started. Survey of the Vaiaata property is completed. It was discovered that most of the land of the 100 acres lot is not suitable for the new power plant. There is very little flat land. Plus there are large natural culverts for streams through the property. PMU wrote to Samoa Land Corporation for permission to acquire part of neighboring land for the power plant. No response has been received from SLC.

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

This work is complete in all 4 power plants. Plants are now running with new state of the art 22kv switchgear. For Taelefaga new switchgear is housed inside an aircondition room.

#### (vi). Refurbishment of Tanugamanono Diesel Generators

Generator 9A is complete and is back on line. This is the one that crankshaft was replaced. Overhaul of generator 5A is pending until Alaoa hydro plant is back in service.

#### (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. PMU Organization Structure

There as no further action on this. Egis International contract is winding down to finally complete in November 2011.

#### B. Staff Recruitment

EPC is hiring 3 experienced engineers to add to PMU. Engineers are; civil, distribution, and generation engineers.

#### C. 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.

The blank screen problem is becoming very serious as the number of defective meters reported is increasing. There are over 600 defective meters now. Biggest problem is the number of unreported defective meters still being used by consumers.

#### D. Cabinet Policy

There have been no further discussions on this.

#### E. Meter Heights

Lowering of meters by A D Riley subcontractor continued. New installations are all lowered. There is still no decision how to lower the first 10,000 or more meters first installed by ADR before variation to lower meters came into affect.

#### F. 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 buy top up tokens.

#### H. Access Road and Pipeline to Fiaga Power Plant and Fence

Road and pipeline is 90% complete. This work was dedicated by the Prime Minister in June during ground breaking for start of construction of the new Fiaga power plant.

#### I. 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	System Average Interruption Duration Index (SAIDI) Baseline	Baseline SAIDI established on 3 <sup>rd</sup> Quarter 2008: Annual SAIDI for Upolu: 1515 min Annual SAIDI for Savaii: 2622 min
supply	established and verified on 4th Quarter of 2008	Quarterly SAIDI for Upolu: 379 min
	and reduced by 20% by 2015	Quarterly SAIDI for Savaii: 656 min
		2 <sup>nd</sup> Quarter 2011 SAIDI: Annual SAIDI for Upolu:
		Annual SAIDI for Savaii:
		Quarterly SAIDI for Upolu:
		Quarterly SAIDI for Savaii:
	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 <sup>rd</sup> 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 2 <sup>nd</sup> Quarter 2011 Annual SAIFI for Upolu: Annual SAIFI for Savaii: Quarterly SAIFI for Upolu: Quarterly SAIFI for Savaii: Refer to Appendix 8 for SAIDI monitoring Refer to Appendix 9 for SAIFI monitoring
	Cost of generation	

Design Summary	Performance	Current Status		
	Targets/Indicators			
	established and published	Cost of Generation established and reported to		
	by 1st Quarterof FY 2009	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.		
2. Operational efficiency of EPC improves	Baselines for technical system losses are established and verified by 4th Quarter of 2008 and are to be reduced by 10%	Baselines figures of Total System losses established on a 12 moth moving average at September 2008 are:		
		Upolu: 15.7%		
	by 4th Quarter 2010 and 20% by 4th Quarter 2012	Savaii: 18.2%		
	2070 by 401 Quartor 2012	EPC: 15.9%		
		Updated 12 month moving average of total system losses now reported monthly to the Board. End of December 2008 are:		
		Upolu: 171%		
		Savaii: 18.2%		
		EPC: 17.2%		
	Baseline for non-technical system losses established and verified by 4th quarter 2008 and reduced by 10% by 2010.	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 <sup>th</sup> Quarter 2008.		
		Change in non technical loss can be monitored as technical loss level generally remains static		
		Finance Department have begun diagnostic review of causes of non-technical loss as basis for implementation of reduction measures		

3. The financial Consistent application of Procedures reviewed in August 2008 and performance of EPC disconnection policy revised procedures implemented. WE NEED improves TO REPORT ACCOUNTS AGING.. Fuel audits conducted on all EPC's diesel power Fuel Audit's at both Upolu and Savaii stations Generation Stations introduced 1 May 2008 and now routinely conducted monthly. Results reported monthly to Board. WE SHOULD REPORT Q2 2011 AVERAGE. Timeliness of tariff Tariff Increase of 10% from 1 September 2008 adjustments in response incorporated in FY 2009 approved Budget not to cost yet implemented - implementation now anticipated as 1st January 2009. EPC's collection performance improves Customers' arrears on 2<sup>nd</sup> Quarter of 2011 such that accounts were: receivables are below 2 Debtor days as = days months of sales % Government Debt (of total debt) = \_\_\_\_% Government Sales (of total sales) Government consumers' share of EPC's accounts receivables reduced from Debt/Sales Ratio: \_\_\_\_\_% 55% in 2007 to less than Reference Appendix 5 their share of total sales by 31 December 2009

Effective regulation of the power sector is established	Electricity Act Reform to govern the power sector was established by 31 December 2009	Not within Scope of this Project
	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 implemented	Not within Scope of this Project
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 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. Final
	payment to
	contractor is still
	pending ADB final
	approval.

# 7. LOAN EFFECTIVE MILESTONES (Electric Power Corporation)

Details	Status
Details	Otatus
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
Project Manager	Complied
Restructure of PMU	Cancelled.
Project Accountant	Complied
Generation Engineer	Complied
Transmission & Distribution Engineer	Complied

Power System Planner	Complied
Public Relation & Community Liaison Specialist	Complied
SCADA Engineer	Complied
PMU Secretary	Complied
Establishment of Environment and Social Unit	Complied
Legal / Environment Advisor	Complied
	•
Environment Specialist	Complied
Land & Acquisition Specialist	Complied
Land a rioquiolist operation	oompiiou .
Effectiveness of the JBIC Loan Agreement	Complied
Endeutoness of the object country groomers	Complica
Commitment of the Government of Australia Grant	Complied
Communicition the Government of Adamana Grant	Complica
Logal Opinion from the Attorney Conoral's Office	Complied
Legal Opinion from the Attorney General's Office	Complied

### 8. RESETTLEMENT (updated quarterly)

There has been no activity this quarter related to officially transferring Fiaga 97 acres and Vaiaata 100 acres to EPC for the new power plants. This is still pending.

Status of land acquisition and resettlement for subprojects at end of 2<sup>nd</sup> 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.

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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. Defective meters.
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; 90% of trenching and installation of ducts is complete.
9) 22kV Fuluasou Substation	YES	NIL	NIL	MNRE approved to use back access for underground cable. PMU requested Land Board to transfer extra land to Golf Course fence for Substation to fit refurbishment of old hydro with new penstock and powerhouse.
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. Vehicles and other materials have arrived.
12) Fuluasou Substation to Leulumoega via Vaigaga 22kV Underground Cable	NIL	NIL	NIL	NIL
13) 22kV Overhead Conductor Upgrading Program	NIL	NIL	NIL	Construction continued. 30% is complete.
14) Hydro Scheme				Feasibility Study reports are finalized.
15) Puapua-Asau Transmission Line 22kV Reconductoring	NIL	NIL	NIL	Rapid Environmental Assessment and Dev. Consent approved.  Construction continued. 90% of work is complete.

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	It is being tendered. Tender closes on 15th of Aug, 2011.
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	Feasibility study is almost done. Includes new plant in Vaiaata and Substation and Mini Control Center in Salelologa.
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 Faleseela Feasibility study and continued with rest of FS for other 4 schemes and tender of 3 schemes.

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

10. LOAN DRAW DOWN TO DATE (31 December 2010)

	ADB categ*	Schedule Date Contract Award	Revised Contract Budget	Actual Contract Price	Contract Number	Actual Date Contract Awarded	Draw Down to date	Balar
ADB Loan			USD\$M 26.61					
ADB Grant			15.39					
JICA Loan			38.00					
Ausaid Grant			8.00					
EPC			12.00					
27 0			100.00					
CORE SUBPROJECTS								
Project Manager (0,37 + 0,38 unallocated)	4	Q4 2007	0.75	0.37	CON-0108	30th Oct 2007	0.06	
Project implementation consultant: EBI (73 manmonths)	4	Q1 2008	2.67	2.67	CON-05058	2 May 2008	1.74	
Hospital Feeder Upgrading Project – Stage 1	3	Q1 2009	0.60		SAM-PSEP-02		1.94	
Single- and Three-Phase Prepayment Metering	3	Q3 2008	5.67	5.89	PPM1207	30 July 2008	4.90	1
Project	3	Q3 2000	3.07	5.69	FFIVITZU7	30 July 2008	4.50	
CANDIDATE SUBPROJECTS								
UPOLU Generation		ļ						<b>!</b>
Tanugamanono Power Station Noise and Emission Control Program	3	Q4 2009	0.17				0.00	
Refurbishment of Alaoa Hydropower Station	3	Q3 2009	1.34		SAM-PSEP-03		0.00	
Fiaga New Diesel Power Station Project	3	Q1 2010	22.27	35.88	SAM-PSEP-08		6.10	2
UPOLU Transmission								
Upgrade of the Alaoa 6.6 kV Transmission Line to 22 kV Project	3	Q3 2009	1.14		SAM-PSEP-02			
Upolu Diesel Power Station to Fuluasou Substation Underground Cable Project	3	Q1 2010	3.12					
Hospital Feeder Upgrading Project - Stage 2	3	Q4 2009	3.20		SAM-PSEP-09		0.84	
22 kV Fuluasou Substation Project	3	Q2 2010	2.93					
Low-Voltage Network Expansion Program	3	Q2 2010	1.29					1
Fuluasou Substation to Apia Wharf Area 22 kV Underground Cable Project	3	Q2 2012	0.00					
Fuluasou Substation to Leulumoega via Vaigaga 22 kV Underground Cable Project	3	Q2 2012	2.78					
22 kV Overhead Conductor Upgrading Program	3	Q3 2009	6.03		SAM-PSEP-09		0.41	
SAVAII Generation								
Hydropower Scheme	3	Q3 2012	10.65					1
SAVAI'I Transmission								
Puapua–Asau Transmission Line 22 kV	3	Q3 2009	1.24		SAM-PSEP-02			
Reconductoring Project Low-Voltage Network Expansion Program	3	Q2 2010	0.56					1
Measurement Equipment	Ü	Q2 2010	0.50					<b>t</b>
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	
SCADA	3	Q4 2009	3.48		5, 111 1 521 65	2514 56165	0.07	
CORE AND CANDIDATE SUBTOTAL		4.200	70.00	44.81			16.12	5
APPROVED NEW SUBPROJECTS								
Vending System	3	Q1 2009	0.25				0.10	
Public Dissemination	3	Q1 2009	0.10					
Power System Planning Software	3	Q3 2008	0.06		SAM-PSEP-06	23rd Oct 08	0.06	
Refurbishment of Taalefaga and Samasoni Switchgea	3	Q2 2009	1.60		SAM-PSEP-07		1.97	
Refurbishment of Salelologa Power Station	3	Q2 2009	5.90		SAM-PSEP-10			<u> </u>
Refurbishment of Tanugamanono Two Generators	3	Q3 2009	0.75		SAM-PSEP-08		0.47	1
Upolu Hydro	3	Q! 2010	3.51					<b>!</b>
Contingency (Vaipu Assisted Pumping Scheme)	3	Q1 2010	0.50					<u>.                                    </u>
NEW SUBPROJECTS SUBTOTAL			12.67	0.00			2.60	-
GRAND TOTAL		<del>                                     </del>	82.67	44.81	<b></b>		18.72	

	TOTAL DISBURSEMENTS SUMMARY	AS AT 31ST DEC	EMBER 2010									_									
					TOTAL			LOANS				(	GOVT CAPITAL	CC	DUNTERPART		OTAL LOANS +	TOTAL		Remain	
	PROJECT	PAYEE	CONTRACT NO.	D	DISBURSEMENT	Al	DB Loan	ADB Grant	JICA		TOTAL		AUSAID		EPC		OVT CAPITAL+	AWARDS		(Varian	ce)
	Excha	Be mile (as) as as	2.4044		SAT\$		т				LOANS	_					EPC C/PART	SAT		\$	%
	COLUMN A TOTAL PROJECT APPROVED FUNDS	COLUMN B	COLUMN C USD	ć	COLUMN D 88,000,000		26,610,000	COLUMN F \$ 15.390.000	COLUMN 6		COLUMN H 80,000,000	¢	COLUMN I 8,000,000	<	12,000,000	\$	COLUMN K 100,000,000	COLUMN L 2.180.000.00	C	OLUMN M	COLUMN N
	TOTAL PROJECT APPROVED TOTALS		030	7	88,000,000	<b>,</b>	20,010,000	2 13,330,000	\$ 38,000,	,	80,000,000	ý	8,000,000	Ş	12,000,000	,	100,000,000	2,180,000.00			
	TOTAL ESTIMATED PROJECT FUNDS		SAT\$	\$	211,587,200	\$	63,981,084	\$ 37,003,716	\$ 91,367	200 \$	192,352,000	\$	19,235,200	\$	28,852,800	\$	240,440,000	\$ 5,241,592			
	SINGLE AND THREE PHASE PREPAYMENT																				
1	METERS:	Arthur D. Riley & Co. Ltd.	PPM1207	\$	11,792,007	\$	3,655,522	\$ 825,441	\$ 5,542	243	10,023,206	\$	1,768,801	\$	_	\$	11,792,007	\$ 15,139,803	\$	3,347,795	22%
2		Digsilent Pacific Pty		Ш								II.							ľ.		
3	POWER SYSTEM PLANNING SOFTWARE:	Ltd	SAM-PSEP-06	Ş	134,810	Ş	41,791	\$ 9,437	\$ 63	361 \$	114,589	\$	20,222	\$	-	ş	134,810	\$ 136,126	\$	1,316	1%
3	STREAM FLOW GAUGING EQUIPMENT:	NIWA	SAM-PSEP-04	\$	145,397	\$	45,073	\$ 10,178	\$ 68,	337	123,588	\$	21,810	\$	-	\$	145,397	\$ 163,988	\$	18,591	11%
4	HV TEST EQUIPMENT :	Electrotest Ltd.	SAM-PSEP-05	\$	163,443	\$	50,667	\$ 11,441	\$ 76	318	138,927	\$	24,516	\$	_	\$	163,443	\$ 153,341	-\$	10,102	-7%
5	EGIS BCEOM IMPLEMENTATION	EGIS BCEOM		Ш															١.		
6	CONSTULTANTS: EPC REIMBURSEMENTS:	International	CON0508	\$	4,004,841			\$ 4,004,841		Ş	4,004,841			\$	184,659	ş	4,189,500	\$ 7,105,010	\$	2,915,510	41%
6.		EPC	CON0108	Ś	140,851			\$ 140,851		5	140,851			Ś	249,338	Ś	390,189	\$ 612,000	Ś	221,811	36%
6.	2 B. 22 KV OVERHEAD UPGRADING	EPC	SAM-PSEP-09	\$	991,727	\$	307,435		\$ 466	112	842,968	\$	148,759	\$	-	\$	991,727	\$ 991,727	-\$	o	0%
	C. UPGRADING OF SUPRIMA VENDING MACHINES:			_	244.240	_	75 700	47.005		702	207.505	۸.	20.022	_		_	244 240	_	_	244 240	#D#//01
7	UPGRADING HOSPITAL FEEDER STAGE 1,	EPC		\$	244,218	>	75,708	\$ 17,095	\$ 114	/82	207,585	>	36,633	>	-	>	244,218	\$ -	-\$	244,218	#DIV/0!
1	ALAOA DIST. LINE & ASAU 22KV					1													۱,		
,	RECONDUCTORING: 1 TRANSFORMERS	Etel Limited	SAM-PSEP-02/01-D	d	543,527	Ś	168,493	\$ 38,047	\$ 255	158	461,998	ć	81,529	s		4	543,527	\$ 571,118	<i>\$</i>	- 27,591	5%
						1						٠		Ĭ.		Ĭ.	·		1		
	2 CABLES & CONDUCTORS	Olex Australia Pty Ltd	SAM-PSEP-02/01-C	\$	683,914	\$	212,013				581,327	\$	102,587	\$	-	\$	683,914	\$ 684,687	\$	773	0%
7.	3 POLES & CROSSARMS	Bluebird/Ahlal JV	SAM-PSEP-02/01-B	Ş	88,804	\$	27,529	\$ 6,216	\$ 41,	738	75,483	\$	13,321	\$	-	ş	88,804	\$ 102,124	\$	13,321	13%
7.	4 SUPPLY OF GALVANISED LINE HARDWAR	South Austral Pty Ltd.	SAM-PSEP-02/01-A	\$	2,743,428	\$	850,463	\$ 192,040	\$ 1,289	411 \$	2,331,914	\$	411,514	\$	-	\$	2,743,428	\$ 154,689	-\$	2,588,740	-1674%
7.	5 PROCUREMENT OF WORKS & RELATED S	Bluebird/Ahlal JV	SAM-PSEP-02/02-A	\$	491,223	\$	152,279	\$ 34,386	\$ 230	375	417,540	\$	73,683	\$	101,680	\$	592,903	\$ 154,690	-\$	438,214	-283%
8	REFURBISHMENT OF ALAOA HYDRO POWER STATION	Tenix New Zealand	SAM-PSEP-03	۲.	657.016	,	203,954	\$ 46,054	\$ 309		559,229	ے ا	98,687	_		_	657,916	\$ 3,432,945	s	2,775,029	81%
9	HOSPITAL FEEDER STAGE 2 & 22KV	Terrix New Zealand	SAMI-PSEP-U3	Þ	657,916	Ş	203,954	\$ 46,054	\$ 309	221 3	559,229	Þ	98,087	Þ	-	۶	657,916	\$ 3,432,945	۶	2,775,029	81%
	UPGRADING:																				
9.	1 SUPPLY OF MATERIALS	Etel Limited	SAM-PSEP-09/01-A	\$	768,178	\$	238,135	\$ 53,772	\$ 361	043 \$	652,951	\$	115,227	\$	-	\$	768,178	\$ 768,178	\$	0	0%
9.	2 SUPPLY OF MATERIALS REFURBISHMENT OF TAELEFAGA,	South Austral Pty Ltd.	SAM-PSEP-09/01-B	\$	1,251,531	\$	387,975	\$ 87,607	\$ 588	220 \$	1,063,801	\$	187,730	\$	-	\$	1,251,531	\$ 4,625,858	\$	3,374,327	73%
10	LALOMAUGA, SAMASONI &																				
	TANUGAMANONO SWITCHGEARS:	Northpower Ltd.	SAM-PSEP-07	\$	4,730,718	\$	1,466,523	\$ 331,150	\$ 2,223	438	4,021,110	\$	709,608	\$	-	\$	4,730,718	\$ 5,390,576	\$	659,858	12%
11	REFURBISHMENT OF TANUGAMANONO	Man Diesel & Turbo																			
	GENERATORS 5A AND 9A:	Australia	SAM-PSEP-08	\$	1,138,081	\$	352,805	\$ 79,666	\$ 534	398	967,369	\$	170,712	\$	-	\$	1,138,081	\$ 2,855,377	\$	1,717,296	60%
12	CONSTRUCTION OF PUAPUA FEEDER	Tenix New Zealand	SAM-PSEP-02/02-B	Ś	125,163	Ś	38,801	\$ 8,761	\$ 58,	327 5	106,389	Ś	18,774	Ś	_	Ś	125,163		-s	125,163	#DIV/0!
13	REFURBISHMENT OF ALAOA HYDRO	Silva Transport		Ш								II.								-	-
14	POWER STATION	Company Silva Transport	SAM-PSEP-03/01	\$	272,636	\$	84,517	\$ 19,085	\$ 128	139 \$	231,741	\$	40,895	\$	41,018	ş	313,654				
	FIAGA ACCESS ROAD AND FENCING	Company	AM-PSEP-12/02-A&C	\$	300,521	\$	93,162	\$ 21,036	\$ 141	245	255,443	\$	45,078	\$	45,164	\$	345,685				
15	L	Bluebird /Mitsubishi		ΙΙ.		L													1		
	FIAGA DIESEL POWER STATION FIAGA SITE LEVELING	/Woods PPG Engineering	SAM-PSEP-12/03	\$	14,079,945	\$	4,364,783	\$ 985,596	\$ 6,617	574	11,967,953	\$	2,111,992	\$	-	\$	14,079,945				
16 17	ELECTRICAL DUCTING-VAITELE ROAD		SAM-PSEP-12/02-B	۶	70,324																
	WIDENING	Ott Transport	SAM-PSEP-10/01	\$	325,682	1													1		
	TOTAL DISBURSEMENTS AS AT 30TH NO	VEMBER 2010	SATŜ	ć	45,888,887	ć	12,817,629	\$ 7,039,995	\$ 19,433	179	39,290,803	\$	6,202,078	ć	621,859	ć	46 114 740	\$ 24,210,886	-¢	21 002 054	
	TO THE DISBURSEIVIENTS AS AT SUTH NO	V LIVIBER ZUIU	3415	,	43,666,667	ş	12,017,029	7,059,595	7 19,433	.,,	33,230,803	3	0,202,078	,	021,059	۶	40,114,740	Ç 24,210,686	-3	21,503,854	
	INTEREST DURING CONSTRUCTION (IDC	):	interest rate																		
	Interest Due		6.50%			\$	833,145.86				2,553,902.18				252.242.00	_	252 242 55	6 252.242.55	_		
	less Interest paid Total Interest Outstanding as at 31st De	combor 2010				-Ş	114,942.65 718.203.22		-\$ 174,26 \$ 1.088.88		352,342.00 2.201.560.18			\$	352,342.00	\$	352,342.00	\$ 352,342.00 \$ 2,201,560.18		2,201,560.18	0% -100%
	Total interest Outstanding as at 51st De					7	, 10,203.22	2 334,403.21	y 1,000,00		2,201,300.18					_		Ç 2,201,300.18	ľ	.,201,300.18	-100%
	TOTAL DISBURSEMENTS + IDC		SAT\$	\$	45,888,887		13,535,832			068	41,492,363	\$	6,202,078	\$	974,201	\$	46,467,082	\$ 26,764,788	\$	19,702,294	
	% of funds disbursed as at 31st Dece	ember 2010		Щ	22%		21%	20%	22%		22%	Щ	32%	F	3%		19%				
	TAXES AND DUTIES (GOVERNMENT CONTRIBUTION - MOF)		]	П		1								ć	3,845,254.17	Ś	3,845,254.17	\$ 5.241.592	_e 1	1,396,337.83	-27%
	(35 PENNINENT CONTRIBUTION - MOF)		]	П		1								۶	J,UTJ,ZJ4.1/	Ş	3,043,234.17	J,241,392		.,550,537.03	-21/0
	TOTAL DISBURSEMENTS + IDC + TAX		SAT\$	\$	-		13,535,832			968		\$		\$	4,819,455	\$	50,312,336	\$ 32,006,380	\$	18,305,956	
	% of funds disbursed as at 31st Dece	ember 2010		H	0%		21%	20%	22%		22%		32%		17%		21%				
	Remaining Balance as at 31st Decem	nher 2010	SAT\$	Ś	165,698,313	\$	50,445,252	\$ 29,569,253	\$ 70,845	132	150,859,637	-	13,033,122	¢	24,033,345	Ś	190,127,664				
-	nemaning balance as at 31st Decem		3415	Ť	103,030,313	*	JU)77J,LJL	23,303,233	70,045		130,033,037	f	13,033,122	,	27,033,343	,	130,127,004				
	Remaining Balance as at 31st Decem	mber 2010	USD\$	\$	68,914,620	\$ .	20,980,391	\$ 12,297,976	\$ 29,464,	786 \$	62,743,153	\$	5,420,530	\$	9,995,569	\$	79,074,889				
	% of funds remaining as at 31st Dec	ember 2010	%		78%		79%	80%	78%		78%		68%		83%		79%				

### 11. PROJECT FORECAST FOR 2nd QUARTER 2011 AGAINST ACTUAL

					SAMOA PO	WER SECTOR EXPANSION	PROJECT								
						3G-0087; JICAL-8232/SAM									
					,	QUARTERLY REPORT	,								
					1	APRIL 2009 - 30 JUNE 2009	1								
PROJECT COMPONENT		PROJECT ACTUALS FO	O MILADTED 1ADDI	NO ONJUINE ON			ECT ESTIMATES FOR Q	IIIADTED 1ANDAA 3	MILINEMA		VARIANCE (QUARTERLY)				
PROJECT CHIRPOTEIN	FOREIGN COMPONENT	PROJECT ACTUALS FO	IN QUANTEN TALLIN	15-3WUNEUS	LOCAL COMPONENT	FOREIGN COMPONENT	LI DIIMMID IVA	C-CONTRA NO INRUJ	NUVNEVO	LOCAL COMPONENT	FOREIGN COMPONENT				LOCAL COMPONENT
	ADBLOAN	ADB GRANT	JICA	AUSAID	EPC/GOVT	ADBLOAN	ADB GRANT	JICA	AUSAID	EPC/GOVT	ADB LOAN	ADB GRANT	JICA	AUSAID	EPC/GOVT
	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)
CORE SUBPROJECTS															
Project Manager (0,37 + 0,38 unallocated)															
Consultant Services				•			18,113.93			973.46		18,113.93			973.46
Urallocated Subtotal					· ·									•	
Project implementation consultant: EBI (73 man-months)	'	•	'	'			18,113.93	'	•	973.46	•	18,113.93	•	•	973.46
Project implementation consultant: EBI (13 man-months)  Consultant Services		253,151.50			13,604.56		211,267.80			11,353.70		41,883.70			- 2,250.86
Subtotal		253,151.50			13,604.56		211,267.80			11,353.70		41,883.70			- 2,250.86
Hospital Feeder Upgrading Project – Stage 1	,	400,101,000	•		10,004,00		411/491.00		•	11,000,10		11,000.10	•		2,2,00,00
Land Acquisition and Resettlement									2,100.00	3,900.00				2,100.00	3,900.00
Civil Works						2,137.50		1,899.00		463.50	2,137.50		1,899.00		463.50
Equipment Supply & Installation						43,245.00	9,765.00	65,565.00	20,925.00		43,245.00	9,765.00	65,565.00	20,925.00	
Subtotal						45,382.50	9,765.00	67,464.00	23,025.00	4,363.50	45,382.50	9,765.00	67,464.00	23,025.00	4,363.50
Single- and Three-Phase Prepayment Metering Project											•		•	•	
Equipment Supply & Installation	68,949.73	15,569.29	104,536.69	33,362.77		89,563.21	20,223.95	135,789.38	43,337.04		20,613.48	4,654.66	31,252.69	9,974.26	
Subtotal	68,949.73	15,569.29	104,536.69	33,362.77		89,563.21	20,223.95	135,789.38	43,337.04	,	20,613.48	4,654.66	31,252.69	9,974.26	
CANDIDATE SUBPROJECTS															
UPOLU Generation															
Tanugamanono Power Station Noise and Emission Control															
<b>Program</b> Equipment Supply & Installation															
Subtotal					•										
Refurbishment of Alaca Hydropower Station	•		•		·		•	•	•	'	•	•	•	•	
Civil Works															
Equipment Supply & Installation															
Subtotal															
Upolu Diesel Power Station Project															
Land Acquisition and Resettlement															
Civil Works	,														
Equipment Supply & Installation															
Subtotal					-			•					•	•	
UPOLU Transmission															
Upgrade of the Alaoa 6.6 kV Transmission Line to 22 kV Project															
Land Acquisition and Resettlement		_	_	_											
Land Augustum and Resementent Civil Works					•										
Equipment Supply & Installation															
Subtotal															
Upolu Diesel Power Station to Fuluasou Substation															
Underground Cable Project															
Land Acquisition and Resettlement															
Civil Works															
Equipment Supply & Installation															
Subtotal		•													

Hospital Feeder Upgrading Project - Stage 2														
Land Acquisition and Resettlement														
Civil Works										•				
							•							
Equipment Supply & Installation										•		•	•	
Subtotal	'	•		•	•	•	•	•	•			•	•	•
22 kV Fuluasou Substation Project														
Land Acquisition and Resettlement										•				
Civil Works										•				
Equipment Supply & Installation														
Subtotal				•	•									
Low-Voltage Network Expansion Program														
Land Acquisition and Resettlement														
Civil Works														
Equipment Supply & Installation														
Consultant Services														
Subtotal									•					
Fuluasou Substation to Leulumoega via Vaigaga 22 kV														
Underground Cable Project														
Land Acquisition and Resettlement										,				
Civil Works														
Equipment Supply & Installation										,				
Subtotal														
22 kV Overhead Conductor Upgrading Program														
Land Acquisition and Resettlement														
Civil Works														
Equipment Supply & Installation														
Subtotal														-
SAVAII Generation														
Hydropower Scheme														
Land Acquisition and Resettlement														
Civil Works														
Equipment Supply & Installation														
Consultant Services					·					•				
Subtotal	·	1									•	•		
SUOTOTAI SAVAI'I Transmission	<u>.</u>			•	•	•	•	•		•	•	'	•	•
Puapua-Asau Transmission Line 22 kV Reconductoring														
Project Land Acquisition and Resettlement														
Civil Works				•					· ]					
	·	•	•	•		•	•			•		•	•	·
Equipment Supply & Installation Subtotal													Ė	
Low-Voltage Network Expansion Program	•		•		•	•			'	•	•	•	•	•
Land Acquisition and Resettlement														
Civil Works				•					· ]					·
			•	•	,		•			,				
Equipment Supply & Installation Consultant Services		•	•	•	,		•		•	•	•			
													· ·	
Subtotal				•		•	•	•	'	•	•	•	•	•
Measurement Equipment														
Stream Flow Gauging Equipment														
Equipment Supply & Installation													•	
Subtotal														
VENTALINI			 											

Electrical Test Equipment Equipment															
Equipment Supply & Installation															
Subtotal															
SCADA															
Equipment Supply & Installation															
Subtotal															
CORE AND CANDIDATE SUBTOTAL	68,949.73	268,720.79	104,536.69	33,362.77	13,604.56	134,945.71	259,370.68	203,253.38	66,362.04	16,690.65	65,995.98	9,350.11	98,716.69	32,999.26	3,086.09
APPROVED NEW SUBPROJECTS	VI,0#6,0V	200,120,13	104,000.00	30,302.11	10,004,00	I I I IVEGET	203,010.00	200,200,00	VV <sub>2</sub> VV2.V4	10,030.03	00,030,00	J <sub>1</sub> JJV111	30,110,03	32,333,20	3,000.03
Refurbishment of Savaii Diesel Power Station															
Land Acquisition and Resettlement															
Civil Works															
Equipment Supply & Installation															
Subtotal															
Vending System															
Equipment Supply & Installation						38,750.00	8,750.00	58,750.00	18,750.00		38,750.00	8,750.00	58,750.00	18,750.00	
Subtotal						38,750.00	8,750.00	58,750.00	18,750.00		38,750.00	8,750.00	58,750.00	18,750.00	
Public Dissemination						04/140/00	AİLANIAA	AAİI AAIAA	INITANIA		VV <sub>j</sub> 1 VV/VV	AITANAA	vvj. vvivv	I WILLY WILLY	
Land Acquisition and Resettlement									7,000.00	13,000.00				7,000.00	13,000.00
Subtotal									7,000.00	13,000.00				7,000.00	13,000.00
Taalefaga and Samasoni Switchgears									.,,,,,,,,,	. 4)444144				1,744444	
Equipment Supply & Installation															
Subtotal										,					
Power System Planning Software															
Equipment Supply & Installation															
Subtotal															
SUBTOTAL (A-Z)	68,949.73	268,720.79	104,536.69	33,362.77	13,604.56	173,695.71	268,120.68	262,003.38	92,112.04	29,690.65	104,745.98	600.11	157,466.69	58,749.26	16,086.09
APPROVED EPC, NOT ADB NEW SUBPROJECTS															
Vaipu Pumping Scheme															
Equipment Supply & Installation															
Subtotal	-								-						
Refurbish 2 only T/nono Diesel Generators									_						
Meiuluisii 2 villy I/IIviiv Diesel Gelielatvis			•	•				•	•	•		•	•		
· ·								•	•				•	•	
Equipment Supply & Installation															
· ·															
Equipment Supply & Installation Subtotal															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPC/ADB NEW SUBPROJECTS															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upoliu Hydro Generation										· ·					
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquision and Resettlement														· ·	
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upoliu Hydro Generation															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Civil Works															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Crini Works  Equipment Supply & Installation  Consultant Services															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Civil Works  Equipment Supply & Installation															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Civil Works  Equipment Supply & Installation  Consultant Services  Subtotal															
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Civil Works  Equipment Supply & Installation  Consultant Services  Subtotal  Taxes and Duties										52,500.00 9340 M					- - - - - - - - - - - - - - - - -
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Civil Works  Equipment Supply & Installation  Consultant Services  Subtotal  Taxes and Duties  Physical Contingeny						36,451,94	21,015.00	52,018.61	10,896.67	9,340.00	36,451.94	21,015.00	52,018.61	10,896.67	9,340.00
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Crini Works  Equipment Supply & Installation  Consultant Services  Subtotal  Taxes and Duties  Physical Confingency										9,340.00 20,240.00					9,340.00 20,240.00
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquision and Resettlement  Civil Works  Equipment Supply & Installation  Consultant Services  Subtotal  Taxes and Duties  Physical Contingency Interest During Construction							21,015.00 45,540.00 •	52,018.61 112,725.56	10,896.67 23,613.33	9,340.00 20,240.00 144,722.22	36,451,94 78,992,22	21,015.00 45,540.00	52,018.61 112,725.56 •	10,896.67 23,613.33	9,340.00 20,240.00 144,722.22
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement  Crini Works  Equipment Supply & Installation  Consultant Services  Subtotal  Taxes and Duties  Physical Confingency							21,015.00 45,540.00	52,018.61 112,725.56	10,896.67 23,613.33	9,340.00 20,240.00	36,451.94 78,992.22	21,015.00 45,540.00	52,018.61 112,725.56	10,896.67 23,613.33	9,340.00 20,240.00
Equipment Supply & Installation  Subtotal  NOT YET APPROVED EPCIADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquision and Resettlement  Civil Works  Equipment Supply & Installation  Consultant Services  Subtotal  Taxes and Duties  Physical Contingency Interest During Construction							21,015.00 45,540.00 •	52,018.61 112,725.56	10,896.67 23,613.33	9,340.00 20,240.00 144,722.22	36,451,94 78,992,22	21,015.00 45,540.00	52,018.61 112,725.56 •	10,896.67 23,613.33	9,340.00 20,240.00 144,722.22

### 12. PROJECTED FORECAST YEAR TO DATE AGAINST ACTUAL

12. PRUJ	ECII							I E AC		1017	7010	/AL			
						WER SECTO			4						
				ADBI	2368; ADE			M-P1, & AUS-010	1						
						YTD FINANC	IAL REPORT								
						30-J	un-09								
PROJECT COMPONENT		PROJECT ACT	UALS YTD ENDING	30JUNE09			PROJECT ESTIN	NATES FOR YTD ENDING	G 30JUNE09				VARIANCE (YT	D)	
					LOCAL					LOCAL					
		FOREIGN CO			COMPONENT			OMPONENT		COMPONENT			GN COMPONENT		LOCAL COMPONENT
	ADB LOAN	ADB GRANT	JICA	AUSAID	EPC/GOVT	ADB LOAN	ADB GRANT	JICA	AUSAID	EPC/GOVT	ADB LOAN	ADB GRANT	JICA	AUSAID	EPC/GOVT
	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)	(US\$)
AAAT CURARAUTATC															
CORE SUBPROJECTS Project Manager (0,37 + 0,38 unallocated)															
Consultant Services		54,918.57			5,799.80		108,683.58			5,840.74		53,765.02			40.94
Unallocated		J4,310.J/			3,133.00		100,000.00			3,040.74		30,103.02			40.34
Subtotal		54,918.57			5,799.80		108,683.58			5,840.74		53,765.02			40.94
Project implementation consultant: EBI (73 man-	•	J4,310.J1	-	•	J <sub>1</sub> 133.00	•	100,000.00	•	-	3,040.14	•	JJ;10J.0Z	•	•	70,07
months)															
Consultant Services	-	752,387.18		•	40,433.88		845,071.21			45,414.79		92,684.03			4,980.91
Subtotal		752,387.18			40,433.88		845,071.21			45,414.79		92,684.03			4,980.91
Hospital Feeder Upgrading Project – Stage 1		, ,			,		,			,		,			.,,******1
Land Acqusition and Resettlement							-		2,100.00	3,900.00				2,100.00	3,900.00
Civil Works			-			2,137.50		1,899.00		463.50	2,137.50		1,899.00		463.50
Equipment Supply & Installation	-					43,245.00	9,765.00	65,565.00	20,925.00	-	43,245.00	9,765.00	65,565.00	20,925.00	-
Subtotal						45,382.50	9,765.00	67,464.00	23,025.00	4,363.50	45,382.50	9,765.00	67,464.00	23,025.00	4,363.50
Single- and Three-Phase Prepayment Metering		•	•				•								
Project															
Equipment Supply & Installation	389,620.52	87,978.83	590,714.98	188,526.06	•	358,252.84	80,895.80	543,157.53	173,348.15	-		- 7,083.02	- 47,557.45		•
Subtotal	389,620.52	87,978.83	590,714.98	188,526.06	•	358,252.84	80,895.80	543,157.53	173,348.15	•	- 31,367.68	- 7,083.02	47,557.45	- 15,177.91	•
CANDIDATE SUBPROJECTS															
UPOLU Generation															
Tanugamanono Power Station Noise and Emission															
Control Program															
Equipment Supply & Installation Subtotal				-	•			•				•	•		•
Refurbishment of Alaoa Hydropower Station	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Civil Works	_								_	_	_				
Equipment Supply & Installation										-					
Subtotal															
Upolu Diesel Power Station Project													-		-
Land Acquisition and Resettlement															
Civil Works														-	-
Equipment Supply & Installation															-
Subtotal															
UPOLU Transmission															
Upgrade of the Alaoa 6.6 kV Transmission Line to 22															
kV Project															
Land Acqusition and Resettlement	-		-	•		-	-						-	-	-
Civil Works	-	•	•				•	-		•		•	-	-	-
Equipment Supply & Installation	-	•	•	-		•	•	-	•			•		-	-
Subtotal		•			•				•						
Upolu Diesel Power Station to Fuluasou Substation								_					_	_	
Underground Cable Project															
Land Acquisition and Resettlement	-	•	•	-	•	•	•		•	•		•			-
Civil Works	•	•	•	•	•	•	•	•	•			•	•	•	•
Equipment Supply & Installation Subtotal					•							•			
ouvioldi	•	•	•			•	•	•		•		•	•		•

Hospital Feeder Upgrading Project - Stage 2															
Land Acquistion and Resettlement															
Civil Works															
Equipment Supply & Installation															
Subtotal															
22 kV Fuluasou Substation Project															
Land Acquisition and Resettlement															
Civil Works														_	
Equipment Supply & Installation															
Subtotal															
Low-Voltage Network Expansion Program															
Land Acquisition and Resettlement															
Civil Works															
Equipment Supply & Installation															
Consultant Services															
Subtotal															-
Fuluasou Substation to Leulumoega via Vaigaga 22															
kV Underground Cable Project															
Land Acqusition and Resettlement														•	
Civil Works															
Equipment Supply & Installation															
Subtotal															•
22 kV Overhead Conductor Upgrading Program															
Land Acqusition and Resettlement															
Civil Works															
Equipment Supply & Installation															
Subtotal															
SAVAII Generation															
Hydropower Scheme															
Land Acqusition and Resettlement															
Civil Works															
Equipment Supply & Installation															
Consultant Services															
Subtotal	•			•				•				•	•	•	•
SAVAI'I Transmission	•	•	*	*		-	•					•			
Puapua–Asau Transmission Line 22 kV															
Reconductoring Project															
Land Acqusition and Resettlement									1,050.00	1,950.00				1,050.00	1,950.00
Civil Works						3,534.00		3,139.68		766.32	3,534.00		3,139.68		766.32
Equipment Supply & Installation						112,083.60	25,309.20	169,933.20	54,234.00		112,083.60	25,309.20	169,933.20	54,234.00	
Subtotal		•	•	•	•	115,617.60	25,309.20	173,072.88	55,284.00	2,716.32	115,617.60	25,309.20	173,072.88	55,284.00	2,716.32
Low-Voltage Network Expansion Program															
Land Acqusition and Resettlement															
Civil Works															
Equipment Supply & Installation															
Consultant Services															
Subtotal															
	•	•	•	•											
Measurement Equipment	•	•	•	•	•							ı			
Measurement Equipment Stream Flow Gauging Equipment	•	•	•	•	-										
Measurement Equipment	13,429.11	3,032.38 3,032.38	20,360.26	6,497.95 6,497.95		15,500.00	3,500.00	23,500.00	7,500.00 <b>7,500.00</b>		2,070.89	467.62	3,139.74	1,002.05	

Electrical Test Equipment Equipment Equipment Supply & Installation	14,695.99	3,318.45	22,281.02	7,110.97		18,600.00	4,200.00	28,200.00	9,000.00		3,904.01	881.55	5,918.98	1,889.03	
Subtotal	41,554.20	9,383.21	63,001.54	20,106.87		18,600.00	4,200.00	28,200.00	9,000.00		3,904.01	881.55	5,918.98	1,889.03	
SCADA	11,001,20	J,000i£1	00,001.04	20,100.01		10,000.00	4,200.00	20,200.00	3,000.00		U <sub>j</sub> UUTiUI	001.00	0,010.00	1,000.00	
Equipment Supply & Installation															
Subtotal	56,250.20	12,701.66	85,282.56	27,217.84		-	- 1	-				-			
CORE AND CANDIDATE SUBTOTAL	500,854.03	920,401.82	759,359.33	242,348.72	46,233.68	553,352.94	1,077,424.80	835,394.41	268,157.15	58,335.35	405 007 00	175,789.40	202,038.15	66,022.17	12,101.66
	000,004.03	920,401.02	109,309.33	242,340.12	40,£33.00	333,332.94	1,077,424.00	030,394.41	200,107.10	36,333.33	135,607.32	1/0,/69.40	202,036.13	00,022.17	12,101.00
APPROVED NEW SUBPROJECTS															
Refurbishment of Savaii Diesel Power Station															
Land Acqusition and Resettlement		•	•	•					•			•	•	•	
Civil Works		•	•	•					•			•	•	•	
Equipment Supply & Installation		•		•								•		•	
Subtotal	•	•	•	•	•	•			•	•	•	•	•	•	•
Vending System															
Equipment Supply & Installation	•		•	•		38,750.00	8,750.00	58,750.00	18,750.00		38,750.00	8,750.00	58,750.00	18,750.00	•
Subtotal						38,750.00	8,750.00	58,750.00	18,750.00		38,750.00	8,750.00	58,750.00	18,750.00	
Public Dissemination								_						_	_
Land Acqusition and Resettlement	•		•						7,000.00	13,000.00				7,000.00	13,000.00
Subtotal	•	•	-	•	•	•	•		7,000.00	13,000.00	•	•	•	7,000.00	13,000.00
Taalefaga and Samasoni Switchgears															
Equipment Supply & Installation															
Subtotal															
Power System Planning Software	•		•	•			•					•			
Equipment Supply & Installation	11,995.14	2,708.58	18,186.18	5,804.10		18,600.00	4,200.00	28,200.00	9,000.00		6,604.86	1,491.42	10,013.82	3,195.90	
Subtotal	11,995.14	2,708.58	18,186.18	5,804.10		18,600.00	4,200.00	28,200.00	9,000.00		6,604.86	1,491.42	10,013.82	3,195.90	
	,	,	,	,		,	,	,	,		,	,	,	,	
SUBTOTAL (A-Z)	512,849.17	923,110.40	777,545.51	248,152.82	46,233.68	610,702.94	1,090,374.80	922,344.41	302,907.15	71,335.35	180,962,18	186,030.82	270,801.97	94,968.07	25,101.66
APPROVED EPC, NOT ADB NEW SUBPROJECTS Valpu Pumping Scheme Equipment Supply & Installation															
Subtotal	•	•								•					
Refurbish 2 only T/nono Diesel Generators				•	•	•		•	•	•					
Equipment Supply & Installation				•	•	•		•	•		•	•	•		
Subtotal												•			
	•														
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation			•												
NOT YET APPROVED EPC/ADB NEW Subprojects															
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation															
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acquisition and Resettlement															
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acquisition and Resettlement Civil Works	:											· · ·			
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acquisition and Resettlement Civil Works Equipment Supply & Installation															
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acqusition and Resettlement Civil Works Equipment Supply & Installation Consultant Services		· •													
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acqusition and Resettlement Civil Works Equipment Supply & Installation Consultant Services		: : : : : : : : : : : : : : : : : : : :										:			
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acquisition and Resettlement Civil Works Equipment Supply & Installation Consultant Services Subtotal						- - - - - - - - - 218,711.67									299,736.42 56,040.00
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS  Upolu Hydro Generation  Land Acquisition and Resettlement Civil Works Equipment Supply & Installation Consultant Services Subtotal  Taxes and Duties					15,263,58							126,090.00			
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acquisition and Resettlement Civil Works Equipment Supply & Installation Consultant Services Subtotal Taxes and Duties Physical Contingeny					15,263,58					- - - - - - - - - - - - - - - - - - -		126,090.00	312,111.67	65,380.00	56,040.00
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acqusition and Resettlement Civil Works Equipment Supply & Installation Consultant Services Subtotal Taxes and Duties Physical Contingeny Price Contingency					15,263.58	473,953.33			141,680.00	315,000.00 56,040.00 121,440.00 868,333.33		126,090.00 273,240.00 -	312,111.67 676,353.33	65,380.00 141,680.00	56,040.00 121,440.00 868,333.33
NOT YET APPROVED EPC/ADB NEW SUBPROJECTS Upolu Hydro Generation Land Acqusition and Resettlement Civil Works Equipment Supply & Installation Consultant Services Subtotal Taxes and Duties Physical Contingeny Price Contingency Interest During Construction						473,953.33 -		676,353.33 -	141,680.00	315,000.00 56,040.00 121,440.00	473,953.33 -	126,090.00 273,240.00	312,111.67 676,353.33 -	65,380.00 141,680.00 -	56,040.00 121,440.00

#### 13. LAST ADB REVIEW MISSION

ADB had a full Mission in February this 1<sup>st</sup> Quarter 2011 representatives from ADB, JICA, and Aussie Aid attended. Also Anti corruption committee of ADB started their review of project in June:

Matters discussed and reviewed:

- 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) Anti Corruption Committee review of 2 subprojects; Fiaga power plant and Fiaga Access Road. They are also reviewing Upgrade of Alaoa Feeder and Hospital Feeder Stage 1 subproject Committee includes 2 ADB people, 3 Price Waterhouse people and representative from local government audit office.
- d) Improvement in process to speed up payment of contractor invoices.
- e) 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.
- f) Hydro study; feasibility studies of 5 schemes; budget and funding; proposal from Implementation Consultant for detailed design as required by EPC.
- g) Recruit of 3 independent consultant engineers; 1 civil, 1 generation, and 1 power distribution engineer.

ADB next Mission is not known when.

#### 14. APPENDICES

#### Appendix 1 – Revised Project Estimates

Appendix 1 - Revised Project Estimates March 2009

TITLE OF SUBPROJECTS								
	Δ.	DB	Award Date	Revised Budget				
			Award Date	Revised Budget		0111		
		teg*			L.A.R	CW	ESI	cs
	Grant	Loan		USD\$M				
ADB Loan	Proceeds	Proceeds		26.61	0.00%	47.50%	31.00%	0.009
ADB Grant	1 = ESI	1=CW		15.39	0.00%	0.00%	7.00%	94.90%
JICA	2=CS	2=ESI		38	0.00%	42.20%	47.00%	0.009
Ausaid Grant	3=Unallocated	3=Unallocated		8	35.00%	0.00%	15.00%	0.00%
EPC				12	65.00%	10.30%	0.00%	5.10%
				100	100.00%	100.00%	100.00%	100.00%
CORE SUBPROJECTS								
Project Manager (0,37 + 0,38 unallocated)	2		Q4 2007	0.75				0.7
Project implementation consultant: EBI (73 man-months)	2		Q1 2008	2.67				2.6
Hospital Feeder Upgrading Project – Stage 1	1	2	Q1 2009	0.60			0.60	
Single- and Three-Phase Prepayment Metering Project	1	2	Q3 2008	5.67			5.67	
CANDIDATE SUBPROJECTS								
UPOLU Generation								
Tanugamanono Power Station Noise and Emission Control Program	1	2	Q4 2009	0.17			0.17	
Refurbishment of Alaoa Hydropower Station	1	1 & 2	Q3 2009	1.34		0.27	1.07	
Upolu Diesel Power Station Project	1	1 & 2	Q1 2010	22.27	1.67	1.67	18.93	
UPOLU Transmission					1.07	1.07	.5.00	
Upgrade of the Alaoa 6.6 kV Transmission Line to 22 kV Project	1	2	Q3 2009	1.14			1,14	
Upolu Diesel Power Station to Fuluasou Substation Underground Cable Project	1	2	Q1 2010	3.12			3.12	
Hospital Feeder Upgrading Project - Stage 2	1	2	Q4 2009	3.20			3.20	
22 kV Fuluasou Substation Project	1	2	Q2 2010	2.93			2.93	
Low-Voltage Network Expansion Program	1	2	Q2 2010	1.29			1.29	
Fuluasou Substation to Apia Wharf Area 22 kV Underground Cable Project	1	2	Q2 2012	0.00			0.00	
Fuluasou Substation to Apia Whan Area 22 kV Underground Cable Project	1	1 & 2	Q2 2012 Q2 2012	2.78			2.78	
22 kV Overhead Conductor Upgrading Program	1		Q3 2009	6.03				
	'	2	Q3 2009	6.03			6.03	
SAVAII Generation		4.0.0	00.0040	10.05		F 00		
Hydropower Scheme	1	1 & 2	Q3 2012	10.65		5.33	5.32	
SAVAI'I Transmission		4.0.0	00.000					
Puapua–Asau Transmission Line 22 kV Reconductoring Project	1	1 & 2	Q3 2009	1.24			1.24	
Low-Voltage Network Expansion Program	1	1 & 2	Q2 2010	0.56			0.56	
Measurement Equipment								
Stream Flow Gauging Equipment	1	1 & 2	Q3 2008	0.05			0.05	
Electrical Test Equipment Equipment	1	1 & 2	Q3 2008	0.06			0.06	
SCADA	1	1 & 2	Q4 2009	3.48			3.48	
CORE AND CANDIDATE SUBTOTAL				70.00	1.67	7.26	57.65	3.4
APPROVED NEW SUBPROJECTS								
Refurbishment of Savaii Diesel Power Station	1	2	Q2 2009	5.90			5.90	
Vending System	1	2	Q1 2009	0.25			0.25	
Public Dissemination			Q1 2009	0.10	0.10			
Taalefaga and Samasoni Switchgears	1	2	Q2 2009	1.60			1.60	
Power System Planning Software	1	1 & 2	Q3 2008	0.06			0.06	
							3.00	
Approved EPC, Not Yet Approved ADB, New Subprojects								
Vaipu Pumping Scheme	1	1 & 2	Q1 2010	0.50		0.15	0.35	
Refurbish 2 Only Tanugamanono Diesel Generators	1	2	Q3 2009	0.75		0.13	0.75	
TOTALDIGIT 2 Only Tanagamanono Diesel General015	<u>'</u>	<del></del>	QU 2003	0.75			0.75	
Not Vet Approved EDC/ADD New Culture leate		-	<b></b>	<u> </u>				
Not Yet Approved EPC/ADB, New Subprojects		4.0.0	04.0040	2 = 1				
Upolu Hydro Generation	1	1 & 2	Q1 2010	3.51		1.76	1.76	
				4.76	0.00	1.91	2.86	0.0
GRAND TOTAL				82.67	1.77	9.17	68.31	3.

Appendix 2 – Project Progress Monitoring

TASKS / MILESTONES	TARGET	ACHIEV	ASS	AC	WT	COMMENTS
	DATE	DATE	WT	PR	PR	
A. CORE SUBPROJECTS			%	%	%	
1. Hospital Feeder Upgrading Proje	ect -Stage 1				_	
2. Approved Outline	15.08.08	25.08.08	2.0	100	2.0	EPC Board approved outline on 25 August 2008.
Approved Feasibility Study	05.12.08	27.11.08	5.0	100	5.0	Feasibility Study was reviewed and endorsed by ADB in
4. Settle all Environmental issues	10.04.09	27.11.08	5.0	100	5.0	October 2008. This was submitted and approved by the
5. Settle all Land Issues	13.02.09	27.11.08	5.0	100	5.0	EPC Board in November 2008. Tender is combined with
6. Approved Tender Documents	13.02.09	10.3.09	5.0	100	5.0	Upgrade of Alaoa 6.6 Transmission Line to 22kV and
7. Approved Tender Evaluation	29.05.09 11.09.09	29.05.09	5.0	100 100	5.0 5.0	Puapua-Asau Transmission Line 22kV Reconductoring.
Report 8. Award Contract	04.12.09	30.09.09	5.0 20.0	100	20.	PMU prepared 2 separate tenders; ICB-Goods & NCB-
Receive Materials	26.02.10	31.10.10	43.0	100	20.	Labour. 4 contracts for supply of all materials were
10. Complete Construction	26.02.10	30.11.10	5.0	100	43.	,
11. Final Report	20.03.10	30.11.10	3.0	100	75.	awarded. All materials received. Needed more
The mark open					5.0	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.
			400			
		Total Wt	100		100	
4 6: 1 1 1 1		Imp.Prog			100	
1. Single and Three-phase Prepayr	nent Meteri	ng Project		400		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1. Approved Outline			2.0	100		
<ol> <li>Approved Feasibility Study</li> <li>Settle all Environmental Issues</li> </ol>			5.0 5.0	100 100	_	
Settle all Environmentarissues     Settle all Land Issues			5.0	100		'
5. Approved Tender Documents			5.0	100		
6. Approved Tender Evaluation			5.0	100	l l	
Report			5.0	100	l l	
7. Award Contract	31.12.08	31.12.08	5.0	100		,
8. Install 1-1650 meters	31.03.09	31.03.09	5.0	100		
9. Install 1651-3238	30.06.09	30.06.09	5.0	100		•
10. Install 3239-4826	30.09.09	30.09.09	5.0	100		
11. Install 4826-6414	31.12.09	20.11.09	5.0	100	5.0	0 Total number of meters lowered during this quarter is

12. Install 6415-8000	31.03.10	31.12.09	4.0	100	4.0	131. This brings the total number of meters lowered to
13. Install 8001-9250	30.06.10	31.01.10	4.0	100	4.0	3,590.
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		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	<u>loise &amp; Emi</u>	ssion Contr	ol Prog	ram		
<ol> <li>Approved Outline</li> </ol>	11.09.09		2.0	100	2.0	There was no activity on this subproject during this
<ol><li>Approved Feasibility Study</li></ol>	01.01.10		5.0	20	1.0	Quarter.
<ol><li>Settle all Environment Issues</li></ol>	07.05.10		5.0			PMU started on preparation of Feasibility Study this
<ol><li>Settle all Land Issues</li></ol>	12.03.10		5.0			Quarter.
<ol><li>Approved Tender Documents</li></ol>	12.03.10		5.0			
<ol><li>Approved Tender Evaluation</li></ol>	25.06.10		5.0			
Report	15.10.10		5.0			
7. Award Contract	14.01.11		20.0			

8. Receive Materials	27.05.11		43.0			
9. Complete Construction	24.06.11		5.0			
10. Final Report						
		T-1-1 \A/T	400			
		Total WT	100		0.0	
(ii) Defurbishment of Alega Hydron	Lawar Statio	Imp.Prog			3.0	
(ii) Refurbishment of Alaoa Hydrop		25.07.08	2.0	100	2.0	Construction and installation of generator or
1. Approved Outline	15.08.08		2.0	100	2.0	
2. Approved Feasibility Study	05.12.08	27.11.08	5.0	100	5.0	' '
3. Settle all Environment Issues	24.04.09	27.11.08	5.0	100	5.0	
4. Settle all Land Issues	16.01.09	27.11.09	5.0	100	5.0	
5. Approved Tender Documents	06.03.09	10.06.09	5.0	100	5.0	
6. Approved Tender Evaluation	03.07.09	30.09.09	5.0	100	5.0	
Report	06.11.09	31.12.09	5.0	100	5.0	
<ol><li>Award Contract</li></ol>	23.04.10					
8. Receive Materials/Equipment	23.04.10		20.0	100	20.0	
<ol><li>Complete Construction</li></ol>	21.05.10		43.0	100	43.0	
10. Final Report			5.0	100	5.0	
		Total Wt	100			
		Imp.Pro			100.0	
		g				
(iii) Fiaga Diesel Power Station Pro	•					
Approved Outline	08.08.08	25.07.08	2.0	100	2.0	
Approved Outline     Approved Feasibility Study	08.08.08 17.04.09	25.07.08 30.09.09	5.0	100	2.0 5.0	groundbreaking by Prime Minister was held in Jur
Approved Outline	08.08.08	25.07.08				groundbreaking by Prime Minister was held in Jur
Approved Outline     Approved Feasibility Study	08.08.08 17.04.09	25.07.08 30.09.09	5.0	100	5.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> </ol>	08.08.08 17.04.09 04.09.09	25.07.08 30.09.09 30.06.09	5.0 5.0	100 100	5.0 5.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0	100 100 100	5.0 5.0 5.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> <li>Approved Tender Documents</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09 24.07.09	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0 5.0	100 100 100 100	5.0 5.0 5.0 5.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> <li>Approved Tender Documents</li> <li>Approved Tender Evaluation</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09 24.07.09 01.01.10	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0 5.0 5.0	100 100 100 100 100	5.0 5.0 5.0 5.0 5.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> <li>Approved Tender Documents</li> <li>Approved Tender Evaluation Report</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09 24.07.09 01.01.10 12.03.10	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0 5.0 5.0 5.0	100 100 100 100 100	5.0 5.0 5.0 5.0 5.0 5.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> <li>Approved Tender Documents</li> <li>Approved Tender Evaluation Report</li> <li>Award Contract</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09 24.07.09 01.01.10 12.03.10 27.08.10	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0 5.0 5.0 5.0 20.0	100 100 100 100 100	5.0 5.0 5.0 5.0 5.0 5.0 20.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> <li>Approved Tender Documents</li> <li>Approved Tender Evaluation Report</li> <li>Award Contract</li> <li>Receive Materials</li> <li>Complete Construction</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09 24.07.09 01.01.10 12.03.10 27.08.10 14.02.14	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0 5.0 5.0 5.0 20.0 43.0	100 100 100 100 100	5.0 5.0 5.0 5.0 5.0 5.0 20.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment
<ol> <li>Approved Outline</li> <li>Approved Feasibility Study</li> <li>Settle all Environment Issues</li> <li>Settle all land issues</li> <li>Approved Tender Documents</li> <li>Approved Tender Evaluation Report</li> <li>Award Contract</li> <li>Receive Materials</li> </ol>	08.08.08 17.04.09 04.09.09 26.06.09 24.07.09 01.01.10 12.03.10 27.08.10 14.02.14	25.07.08 30.09.09 30.06.09 31.01.10	5.0 5.0 5.0 5.0 5.0 5.0 20.0 43.0	100 100 100 100 100	5.0 5.0 5.0 5.0 5.0 5.0 20.0	groundbreaking by Prime Minister was held in Jur Factory testing of engines and generators schedule end of Aug and Sept. 2011. Engines and equipment v

(i) Upgrade of Alaoa 6.6KV Transm	ission Line	from 6.6 to	22kV Pr	oiect		
Approved Outline	10.10.08	25.07.08	2.0	100	2.0	Construction was completed in 2010. Contractor,
<ol><li>Approved Feasibility Study</li></ol>	30.01.09	27.11.08	5.0	100	5.0	Bluebird Ah LAL is waiting on final payment. ADB is
3. Settle all Environment Issues	12.06.09	27.11.08	5.0	100	5.0	reviewing variation to contract which is included in last
4. Settle all Land Issues	27.03.09	27.11.08	5.0	100	5.0	payment. Anti Corruption Committee of ADB is
5. Approved Tender Documents	24.04.09	10.03.09	5.0	100	5.0	reviewing this contract and payment.
<ol><li>Approved Tender Evaluation</li></ol>	21.08.09		5.0	100	5.0	
Reports	15.01.10		5.0	100	5.0	
7. Award Contract	09.04.10	30.09.09	5.0	100	5.0	
8. Supply Materials	30.07.10		20	100	20	
Complete Construction	27.08.10	30.09.09	40	100	40	
10. Final Report			3	100	3	
·						
		Total Wt	100			
	1	Imp.Prog			100	
(ii) Fiaga Diesel Power Station to F		ostation 33K				
Approved Outline	08.05.09		2.0	100	2.0	Feasibility Study is complete and approved by ADB.
<ol><li>Approved Feasibility Study</li></ol>	28.08.09		5.0	100	5.0	Tender for Goods and Materials closed in December,
<ol><li>Settle all Environment Issues</li></ol>	01.01.10		5.0	100	5.0	2010. Evaluation report was submitted to ADB for
4. Settle all Land Issues	09.10.09		5.0	100	5.0	approval. Award contracts for supply of materials and
<ol><li>Approved Tender Documents</li></ol>	06.11.09		5.0	100	5.0	equipment. Construction will be done by EPC crew.
<ol><li>Approved Tender Evaluation</li></ol>	10.02.10		5.0	100	5.0	
Report	04.06.10					Award of contract for supply of materials was cancelled
<ol><li>Award Contract for materials.</li></ol>	09.04.10		5.0	100	5.0	due to delay and change in design of the transmission
8. Supply Materials	11.02.11		20	0	0	line. 33kv line is changed to underground one circuit
Complete Construction	11.03.11		43	0	0	and built other circuit overhead using concrete poles.
10. Final Report			5	0	0	Underground cables and aerial conductor, hardware,
						poles and other materials will be retendered.
		Total Wt	100			
/// / / / / / / / / / / / / / / / / /		Imp.Prog			32.0	
(iii) Hospital Feeder Upgrading Pro					1	
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
3. Settle all Environment Issues	02.04.11	31.03.09	5.0	100	5.0	cable and related equipment. Supply of materials is 90%
<ol><li>Settle all Land Issues</li></ol>	08.01.10	31.03.09	5.0	100	5.0	complete. Rest of materials was rebided. Contract has

S. Approved Tender Documents	
Report	
7. Award Contract         10.12.10         20.0         90         20         laying of electrical and fiber optic consistallation of vaults are complete.           9. Complete Construction 10. Final Report         24.06.11         43         100         4         stable of the construction installation of vaults are complete.         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         10.12.10         1	
8. Receive Materials         27.05.11         20.0         90         20         installation of vaults are complete.           9. Complete Construction         24.06.11         43         100         4           10. Final Report         Total Wt         100         57           (iv) 22KV Fuluasou Substation Project           1. Approved Outline         06.11.09         28.3.09         2.0         100         2.0         ADB approved feasibility study and tender as project. Tender was advertised in Decems as  Decems as advertised in Decems as advertised in Decems as advertised in Decems as advertised in Decems and Decems as advertised in Decems and Decems as advertised in Decems and Decems as advertised in Decems and Decems as advertised in Decems and Decems as advertised in Decems and Decems and Decems as advertised in Decems and Decems as advertised in Decems and Decems and Decems as advertised in Decems and Decems and Decems as advertised in Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and Decems and De	hing and
9. Complete Construction 10. Final Report    Total Wt   100	ıits, and
Total Wt   100   Imp.Prog   57	
Total Wt   100   Imp.Prog   57	
Imp.Prog   57	
(iv) 22KV Fuluasou Substation Project         Imp.Prog         57           1. Approved Outline         06.11.09         28.3.09         2.0         100         2.0         ADB approved feasibility study and tender as advertised in Decemmon Journal Project.           2. Approved Feasibility Study         26.02.10         5.0         100         5.0         project. Tender was advertised in Decemmon Journal Project.           3. Settle all Environment Issues         02.07.10         5.0         100         5.0         Tender closes in February 2011.           4. Settle all Land Issues         09.04.10         5.0         100         5.0         Evaluation report ready to submit to ADB. ADB. ADB. ADB. ADB. ADB. ADB. ADB.	
(iv) 22KV Fuluasou Substation Project1. Approved Outline06.11.0928.3.092.01002.0ADB approved feasibility study and tender as project. Tender was advertised in Decement and project. Tender was advertised in Decement and project. Tender was advertised in Decement and project. Tender closes in February 2011.3. Settle all Environment Issues02.07.105.01005.0Tender closes in February 2011.4. Settle all Land Issues09.04.105.01005.0Evaluation report ready to submit to ADB. ADB. ADB. ADB. ADB. ADB. ADB. ADB.	
1. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 4. Settle all Land Issues 5. Approved Tender Documents 5. Approved Tender Documents 6. Approved Tender Evaluation 7. Award Contract 8. Supply Materials 9. Complete Construction 10. Final Report  Total Wt 100  1. Approved Outline  1. Approved Outline  1. Approved Outline  1. Approved Tender Study and tender as project. Tender was advertised in December 10.00.  1. Total Wt 100  Imp.Prog  2. ADB approved feasibility study and tender as project. Tender was advertised in December 10.00.  Tender closes in February 2011.  Evaluation report ready to submit to ADB. ADB award and issued No Objection Letter. Gov Board and Cabinet also approved to award Northpower NZ Ltd. Notice of award has been contractor.  8. Supply Materials 9. Complete Construction 10. Final Report  Total Wt 100  Imp.Prog  22.0  (v) Low Voltage Network Improvement Program  1. Approved Outline  06.11.09  31.3.09  2.0  100  2.0  ADB approved feasibility study and tender as project. Tender was advertised in December 10.00.  Tender closes in February 2011.  Evaluation report ready to submit to ADB. ADB award and issued No Objection Letter. Gov Board and Cabinet also approved to award Northpower NZ Ltd. Notice of award has been contractor.  8. Supply Materials 9. Complete Construction 10. Final Report  Total Wt 100  Imp.Prog  22.0  (v) Low Voltage Network Improvement Program  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. Supply Materials 9. Complete Construction 10. Final Report 10. Final Report 10. Approved Outline 2. Approved Feasibility Study 3. Settle all Environment Issues 02.07.10 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 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 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 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 5.0 100 100 100 100 100 100 100 100 100 1	
3. Settle all Environment Issues 02.07.10	ર્a turnkey
4. Settle all Land Issues 09.04.10 5.0 100 5.0 Evaluation report ready to submit to ADB. ADE 5.0 Approved Tender Documents 03.09.10 S.0 Approved Tender Evaluation Report 17.12.10 S.0 Board and Cabinet also approved to award Northpower NZ Ltd. Notice of award has been contract 10.03.11 Supply Materials 26.08.11 Supply Materials 2	er 2010.
5. Approved Tender Documents 6. Approved Tender Evaluation Report 7. Award Contract 8. Supply Materials 9. Complete Construction 10. Final Report  Total Wt 100  Imp.Prog  100  5.0  100  5.0  Board and Cabinet also approved to award Northpower NZ Ltd. Notice of award has been contractor.  Total Wt 100  Imp.Prog  22.0  (v) Low Voltage Network Improvement Program  1. Approved Outline  21.05.10  5.0  5.0  43.0  20.0  43.0  5.0  Total Wt 100  Imp.Prog  22.0  (v) Low Voltage Network Improvement Program  1. Approved Outline  21.05.10  5.0  5.0  43.0  5.0  43.0  43.0  5.0  43.0  5.0  43.0  43.0  5.0  Award and issued No Objection Letter. Gove Board and Cabinet also approved to award Northpower NZ Ltd. Notice of award has been contractor.	
6. Approved Tender Evaluation Report 17.12.10 5.0 Northpower NZ Ltd. Notice of award has been contract 10.03.11 20.0 Complete Construction 10. Final Report Total Wt 100 Imp.Prog 22.0 (v) Low Voltage Network Improvement Program  1. Approved Tender Evaluation 03.09.10 5.0 Board and Cabinet also approved to award Northpower NZ Ltd. Notice of award has been contractor.  Total Wt 100 Imp.Prog 22.0 (v) Low Voltage Network Improvement Program 1. Approved Outline 06.11.09 31.3.09 2.0 100 2.0 Materials were tendered separately. Consideration 1. Approved Description 1. Approved Descrip	approved
Report	Tender's
7. Award Contract 8. Supply Materials 9. Complete Construction 10.03.11 26.08.11 5.0  10. Final Report  Total Wt 100  Imp.Prog 22.0  (v) Low Voltage Network Improvement Program  1. Approved Outline  06.11.09 31.3.09 20.0  contractor.  contractor.  contractor.  contractor.	ontract to
8. Supply Materials       26.08.11       43.0         9. Complete Construction       23.09.11       5.0         10. Final Report       Total Wt       100         Imp.Prog       22.0         (v) Low Voltage Network Improvement Program         1. Approved Outline       06.11.09       31.3.09       2.0       100       2.0       Materials were tendered separately. Construction	issued to
9. Complete Construction         23.09.11         5.0	
10. Final Report  Total Wt 100  Imp.Prog 22.0  (v) Low Voltage Network Improvement Program  1. Approved Outline 06.11.09 31.3.09 2.0 100 2.0 Materials were tendered separately. Constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitut	
Total Wt 100   Imp.Prog 22.0    (v) Low Voltage Network Improvement Program  1. Approved Outline 06.11.09 31.3.09 2.0 100 2.0 Materials were tendered separately. Constitution of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	
(v) Low Voltage Network Improvement Program       1. Approved Outline     06.11.09     31.3.09     2.0     100     2.0     Materials were tendered separately. Const	
(v) Low Voltage Network Improvement Program1. Approved Outline06.11.0931.3.092.01002.0Materials were tendered separately. Const	
1. Approved Outline 06.11.09 31.3.09 2.0 100 2.0 Materials were tendered separately. Cons	•
2 Approved Egocibility Study 26.02.10 5.0 100 5.0 done by EDC DMIL isolated ICD tender for	uction is
2. Approved reasibility study   20.02.10     5.0   100   5.0   dolle by EPC. PMO issued ICB tender for	supply of
3. Settle all Environment Issues   02.07.10   5.0   100   5.0   materials. Contract was awarded for materials	upply.
4. Settle all Land Issues 09.04.10 5.0 100 5.0 Materials started to arrive and stored in project	tore.
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.	

	1					T			
					0				
	<u> </u>	Imp.Prog		L	1				
(vi) Fuluasou Substation to Apia Wi					-	<u>,                                      </u>			
<ol> <li>Approved Outline</li> </ol>	06.11.09	30.06.09	2.0	100		Feasibility study was completed and approved by ADB.			
<ol><li>Approved Feasibility Study</li></ol>	26.02.10		5.0	100					
<ol><li>Settle all Environment Issues</li></ol>	02.07.10		5.0	100	5.0	will be done by EPC. Work of undergrounding electrical			
<ol><li>Settle all Land Issues</li></ol>	07.05.10		5.0	100	5.0	conduits and vaults from Lepea to Malifa has started as			
<ol><li>Approved Tender Documents</li></ol>	21.05.10		5.0	100	5.0	part of Vaitele Road widening project. EPC, Tender			
<ol><li>Approved Tender Evaluation</li></ol>	03.09.10		5.0	100	5.0	Board and ADB approved contract with Ott to start this			
Report						work. Ott completed construction. There are a few items			
7. Award Contract	17.12.10		5.0	100	5.0	to be corrected by Ott. Contract for installation of cables			
8. Supply Materials	11.03.11		20.0			to feed street lights and control panel for street lights was			
9. Complete Construction	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				
(vii) Fuluasou Substation to Leul									
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. Settle all Environment Issues	30.03.12		5.0						
4. Settle all Land Issues	03.02.12		5.0						
5. Approved Tender Documents	17.02.12		5.0						
6. 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						
Complete Construction	23.05.14		5.0						
10. Final Report	20.00		0.0						
		Total Wt	100						
		Imp.Prog	100		0.0				
(viii) 22kV Overhead Conductor U	pgrading P		<u> </u>	I					
Approved Outline	06.02.09	23.10.08	2.0	100	2.0	Materials were supplied under separate contracts. All			
Approved Feasibility Study	29.05.09	28.02.09	5.0	100					
Settle all Environment Issues	02.10.09	31.3.09	5.0	100					
5. Sould all Environment looked	020.00	01.0.00	0.0	100	0.0	,   coparatory.			

4.	Settle all Land Issues	07.08.09	31.3.09	5.0	100	5.0	
	Approved Tender Documents	21.08.09	30.09.09	5.0	100	5.0	Feeders included in this subproject are: Lalomauga
6.	Approved Tender Evaluation	04.12.09		5.0	100	5.0	Feeder, East Cost Feeder, South Coast Feeder, Alaoa
	Report						transmission line, West Coast Feeder, Beach Road
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 award
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 Feb, 2011
							and continuing. 30% of work is completed for 30% of
							contract time.
			Total Wt	100			
			Imp.Prog			52.0	
2.	Savaii					•	
a.	Generation						
(i)	Hydro Scheme						
1.	Approved Outline	05.08.11		2.0	100	2.0	Hydro in Sili is put on hold due to land dispute. Faleata
2.	Approved Feasibility Study	13.04.12		5.0			scheme at Vailoa, Palauli is included under subproject
3.	Settle all Environment Issues	31.08.12		5.0			Hydropower Development. There are 5 schemes being
4.	Settle all Land Issues	22.06.12		5.0			studied under this project. There are 4 hydro schemes
5.	Approved Tender Documents	30.07.12		5.0			selected in Upolu.
6.	Approved Tender Evaluation	23.11.12		5.0			·
	Report	08.02.13		5.0			Implementation Consultant is conducting Feasibility
7.	Award Contract	26.07.13		20.0			Studies of 5 hydropower schemes. From 5 schemes, 3
8.	Receive Materials	13.01.17		43.0			will be selected for detailed design and tender
9.	Complete Construction	10.02.17		5.0			preparation. IC submitted a proposal and EPC to perform
10.	Final Report						detailed designs of three schemes.
	-1						This subproject is combined with Hydro Development.
			Total Wt	100			
			Imp.Prog			2.0	
b.	Transmission			•	,	•	
(i)	Puapua-Asau Transmission Line	22kV Reco	onductoring	Project			
1.	Approved Outline	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	are supplied under separate contracts which were

3.	Settle all Environment Issues	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	1 7
	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.	Award Contract	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	started at end of March 2011. Contract subcontracted a
9.	Complete Construction	12.03.10		43.0	80	35.0	local contractor. 90% of work is complete.
10	. Final Report	09.04.10		5.0			
			Total Wt	100			
			Imp.Prog			87.0	
(ii)	Power Factor Improvement Prog	gram		•			
1.	•	15.08.08	25.07.08	2.0	100	2.0	PF improvement for high voltage lines in Savaii has been
2.	Approved Feasibility Study	05.12.08	05.01.09	5.0	100	5.0	removed from PSEP. PF is high and in an acceptable
3.	Settle all Environment Issues	10.04.09	05.01.09	5.0	100	5.0	level. There is another PF correction project to improve
4.	Settle all Land Issues	13.02.09	05.01.09	5.0	100	5.0	PF inside large consumers. This is not part of PSEP.
5.	Approved Tender Documents	27.02.09		5.0			PMU and Implementing Consultant is managing
6.	Approved Tender Evaluation	12.06.09		5.0			implementation of this project.
	Report	25.09.09		5.0			, ,
7.	Award Contract	18.12.09		20.0			No further work is required.
8.	Receive Materials	12.02.10		43.0			•
9.	Complete Construction	12.03.10		5.0			
10	. Final Report						
	·						
			Total Wt	100			
			Imp.Prog			100	
(iii	Low Voltage Network Improvem	ent Prograr	n				
1.	Approved Outline	06.11.09	31.03.09	2.0	100	2.0	ADB approved Feasibility Study and tender. Contracts
2.	Approved Feasibility Study	26.02.10		5.0	100	5.0	have awarded for supply of materials. Construction will
3.	Settle all Environment Issues	02.07.10		5.0	100	5.0	
4.	Settle all Land Issues	07.05.10		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						
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						
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.	25 Jul 2008. PMU notified ADB and PSC on 11 Aug
3.	PMU notify ADB	07.08.08	11.08.08	2.0	100	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	2.0	minutes of the previous meeting are approved in the
6.	• •	14.08.08	80.80	10.0	100	10.	proceeding meeting. This subproject does not need a
	Documents	11.09.08	05.09.08	5.0	100	0	Feasibility Study and prior review and endorsement of
7.	PMU calls tenders	18.09.08	09.09.08	5.0	100	10.	ADB. PMU prepare equipment specification and called
8.	PMU evaluate tenders	25.09.08	16.09.08	10.0	100	0	tenders for the supply of equipment. Tender Evaluation
9.	1 1	09.10.08	23.10.08	10.0	100	5.0	Report was completed on 18 Sept 2008. ADB endorsed
	. ADB review and endorse TER	09.10.08	23.09.08	10.0	100	5.0	TER on 23 Oct 2008. EPC Board approved Tender
	. EPC Board approves TER	23.10.08	23.10.08	2.0	100	10.	Evaluation Report during its meeting on 23 Sept 2008.
	. PMU advise Successful bidder	04.12.08		10.0	100	0	Withdrawal application for payment is now with ADB.
13	. Successful Bidder supply	11.12.08		2.0	100	10.	Equipment has not been received.
	equipment	17.09.09		5.0	100	0	8 gauges have been installed; 1 left to be installed.
14	. Equipment hand over to	20.11.08		2.0	100	10.	Installation of rain gauges will be added to this project.
15	REU/MNRE					0 2.0	
	. PMU process payment . PMU provide final report					2.0 10.	
10	. Pivio provide ilitai report					0	
						2.0	
						5.0	
						2.0	
						2.0	
			Total Wt	100			
			Imp.Prog			100	
(ii)	HV/LV Testing Equipment						
1.	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	11.08.08	2.0	100		2.0 on 11 Aug 2008. Delay in notification is due to official
4.	PMU notify PSC	08.08.08	11.08.08	2.0	100		2.0 approval of the Board can only be available and
5.	PMU prepares Equipment Specs	80.80	11.08.08	7.0	100	)   7	7.0 confirmed when the minutes of the previous meeting

C. DMILL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TO	45.00.00	40.00.00	7.0	400	7.0	This			
6. PMU prepares Tender	15.08.08	18.08.08	7.0	100	7.0				
Documents	40.00.00	00 00 00	<b>5</b> 0	400		subproject does not need a Feasibility Study and			
7. PMU calls tenders	12.09.08	22.08.08	5.0	100	5.0				
8. PMU evaluate tenders	19.09.08	22.09.08	5.0	100	5.0	1			
9. PMU prepares TER	26.09.08	29.09.08	10.0	100	10.0	1 1 1			
10. ADB review and endorse TER	10.10.08	15.10.08	5.0	50	5.0	<u> </u>			
11. EPC Board approves TER	10.10.08	23.10.08	10.0	100	10.0	, , , , , , , , , , , , , , , , , , ,			
12. PMU advise Successful bidder	24.10.08	24.10.08	2.0	100	2.0				
13. 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	ADB. Suppliers received their payments.			
14. PMU receive equipment									
15. PMU test & use equipment	16.01.08	31.3.09	10.0	100	10.0				
16. PMU process payment	21.11.08	31.3.09	5.0	100	5.0				
17. PMU provide final report	13.02.09		5.0	100	5.0	Project is completed.			
	-	T . ( . 1 14/4	400						
		Total Wt	100		400				
4.0.4.0.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	111 (00.11	Imp.Prog			100				
4. System Control and Data Acquisition (SCADA)									
4. An amount of Outline	00.04.00	24.2.00	0.0	400	2.0	ADD annual of Facility study. ADD annual tanden			
Approved Outline     Approved Foodbilling Charles	03.04.09	31.3.09	2.0	100		ADB approved Feasibility study. ADB approved tender.			
2. Approved Feasibility Study	17.07.09		5.0	100	5.0	Tender is advertised. Over 10 bidders bought tender			
3. Settle all Environment Issues	01.01.10		5.0	100		documents. Tender closes on Aug 15, 2011.			
4. Settle all Land Issues	23.10.09		5.0	100	5.0				
5. Approved Tender Documents	30.10.09		5.0	100	5.0				
Approved Tender Evaluation	05.03.10		5.0						
Report	21.05.10		5.0						
7. Award Contract	05.11.10		20.0						
8. Receive Materials	24.06.11		43.0						
9. Complete Construction	22.07.11		5.0						
10. Final Report		T . ( . 1 14/4	400		20.0				
		Total Wt	100		22.0				
F. Navy Cychang!		Imp.Prog	L		1				
5. New Subprojects		illip.F10g							
(i) Public Dissemination			5.0	400					
	22.08.08 05.09.08	23.09.08 01.10.08	5.0 2.5	100	5.0 2.5	This is a new subproject. It was the EPC's understanding that all the supporting components of			

<ul><li>3. PMU notify PSC</li><li>4. PMU to implement</li><li>5. Final Report</li></ul>	12.09.08 19.11.15 17.12.15	01.10.08	2.5 85.0 5.0	100 50	2.5 34.0	the subprojects such as advertisement, awareness programs, public notices, education programs, etc are all covered under the Power Sector Expansion Project. Unfortunately when the need aroused to pay for these costs during the Prepayment Meter Core Subproject, it was realized that there is no provision for this under the loan. Preliminary discussions took place between PMU and ADB took place. ADB advised this can be added as a new subproject and PMU has to follow the process as outlined in Appendix 7 of the RRP. PMU then prepared the outline to be submitted to the EPC Board. EPC Board approved the outline of this new subproject on 23 Sept 2008. PMU notified ADB and PSC on 01 Oct 2008. ADB agreed to include advertisement of tenders under this subproject.
		Total Wt	100			
(1) \( \)		Imp.Prog			44.0	
(ii) Vending System Expansion				400		
EPC Board approved Outline	26.12.08	23.09.08	5.0	100	5.0	Scratch card system was successfully tested in A D
2. PMU notify ADB	02.01.09	01.10.08	2.5	100	2.5	Riley workshop in New Zealand. New card system was
3. PMU notify PSC	02.01.09	01.10.08	2.5	100	2.5	successfully launched in February 2010. More than 50
4. ADB endorses Feasibility Study	27.03.09		10.0	100	10.0	shops sell cards in Upolu and Savaii. There are some
<ol><li>PSC endorses Feasibility Study</li></ol>	17.04.09		10.0	100	10.0	problems with new card system that EPC is working to
<ol><li>EPC Board approves FS</li></ol>	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	
		Total Wt	100			
		Imp.Prog			100	
(iii) Power System Planning Softwar						
<ol> <li>PMU prepare subproject outline</li> </ol>	22.08.08	23.09.08	5.0	100	5.0	As part of Northpower's scope of work for replacement
<ol><li>EPC Board approves Outline</li></ol>	05.09.08	23.09.08	5.0	100	5.0	of 22kV switchgear in Taelefaga, Lalomauga,
<ol><li>PMU notify ADB</li></ol>	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
<ol><li>PMU prepares Software</li></ol>	12.09.08	26.08.08	5.0	100	5.0	study and protection study of Upolu system. NP used
Specification	19.09.08	15.08.08	5.0	100	5.0	EPC DigSilent software for the studies and used this to
6. PMU prepares Tender	17.10.08	22.08.08	5.0	100	5.0	train 3 of EPC electrical engineers. The project is

	ı	I	1	1	1	
Documents				400		completed. EPC will continue to model the rest of
7. PMU calls tenders	24.10.08	29.08.08	2.0	100	2.0	
8. PMU evaluate tenders	31.10.08	05.09.08	2.0	100	2.0	
9. PMU prepares TER	14.11.08	05.09.08	5.0	100	5.0	1 7
<ol><li>ADB review and endorse TER</li></ol>	14.11.08	17.09.08	5.0	100	5.0	
<ol><li>11. EPC Board approves TER</li></ol>	21.11.08	23.09.08	2.0	100	5.0	
<ol><li>12. PMU advise Successful bidder</li></ol>	05.12.08	26.09.08	5.0	100	5.0	
<ol> <li>Successful Bidder supply software</li> </ol>	12.12.08	15.12.08	10.0	100	100	
14. Successful bidder installed	19.12.08	31.03.09	10.0	100	10.0	
software	19.12.06	31.03.09	10.0	100	10.0	
<ol> <li>Successful bidder provide training</li> </ol>	02.01.09	31.03.09	10.0	100	10.0	
16. PMU take over	19.12.08	31.03.09	10.0	100	10	
17. PMU process payment	30.01.09	30.04.09	5.0	100	5.0	
18. PMU provide final report			5.0		5.0	
·						
		Total Wt	100			
		Imp.Prog			100	
(iv) Refurbishment of Salelologa Po	wer Station					
Approved Outline	07.11.08	23.10.08	2.0	100	2.0	EPC will not refurbish Salelologa Power Station. Instead
Approved Feasibility Study	20.03.09	31.3.09	5.0	50	2.5	a new power station will be built in Vaiaata. Cabine
3. Settle all Environment Issues	07.08.09	31.3.09	5.0	50	2.5	approved 100 acres of govt land for new power plant.
4. Settle all Land Issues	23.01.09	31.3.09	5.0	50	2.5	PMU is redoing feasibility study. Topographic survey of
<ol><li>Approved Tender Documents</li></ol>	26.06.09		5.0			land is completed.
<ol><li>Approved Tender Evaluation</li></ol>	30.10.09		5.0			
Report	15.01.10		5.0			
7. Award Contract	02.07.10		20.0			
8. Receive Materials	03.09.10		43.0			
9. Complete Construction	01.10.10		5.0			
10. Final Report						
·						
		Total Wt	100			
		Imp.Prog			9.5	
(v) Refurbishment of Taelefaga/Lal	omauga/Sar	masoni/Tanı	ıgamano	no pov	ver pla	nt 22kV Switchgears
Approved Outline	26.12.08	23.10.08	2.0	100	2.0	Contract was awarded to Northpower Ltd. Origina

	ed Feasibility Study	03.04.09	31.3.09	5.0	100	5.0	
	II Environment Issues	14.08.09	31.3.09	5.0	100	5.0	
	Il Land Issues	15.05.09	31.3.09	5.0	100	5.0	1 1
	ed Tender Documents	08.05.09	30.09.09	5.0	100	5.0	
6. Approve	ed Tender Evaluation	04.09.09		5.0	100	5.0	
Report		01.01.10		5.0	100	5.0	
7. Award C	Contract	03.12.10		20.0	100	20.0	
8. Receive	e Materials	03.12.10		43.0	75	35.0	
9. Comple	te Construction	31.12.10		5.0			
10. Final Re	eport						
			Total Wt	100		87.0	
			Imp.Prog				
	ishment of Tanugamanoı				_		
	ed Outline	19.12.09	27.11.08	2.0	100	2.0	
	ed Feasibility Study	03.04.09	31.3.09	5.0	100	5.0	•
	II Environment Issues	21.08.09	31.3.09	5.0	100	5.0	•
4. Settle al	II Land Issues	12.06.09	31.3.09	5.0	100	5.0	0 was delay due to reorder of additional parts. There
5. Approve	ed Tender Documents	19.06.09	25.06.09	5.0	100	5.0	
6. Approve	ed Tender Evaluation	25.09.09	30.09.09	5.0	100	5.0	0 completed and put on line. Start on 5A is postponed
Report							until Alaoa hydro is back in operation; this scheduled
7. Award C		11.12.09		5.0	100	5.0	0 in May 2011.
8. Receive	e Materials	05.02.10		20.0	100	10.0	O Alaoa hydro plant is back in service but no decision is
9. Comple	te Construction	30.07.10		43.0	50	22.0	made when to start overhaul of Unit 5A.
10. Final Re	eport	27.08.10		5.0			
			Total Wt	100			
			Imp.Prog			64.0	0
	Pump Assisted Scheme						
1. Approve	ed Outline	19.12.08	18.12.08	2.0	100	2.0	Subproject is on hold until SMEC completed evaluation
2. Approve	ed Feasibility Study	08.05.09		5.0	50	2.5	of dam if it is safe to take more water for storage. PMU
3. Settle al	Il Environment Issues	25.09.09		5.0			completed Feasibility Study and IEE.
4. Settle al	ll Land Issues	17.07.09		5.0			
5. Approve	ed Tender Documents	14.08.09		5.0			
	ed Tender Evaluation	25.12.09		5.0			
Report		12.03.10		5.0			
7. Award C	Contract	27.08.10		20.0			
8. Receive	e Materials	29.10.10		43.0			

Complete Construction     Final Report	26.11.10		5.0			
		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.
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,
						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 3 – Revised Procurement Plan**

DSI = design, supply, install and operate

DSIO = works - design, supply, install and operate

EPC = Electric Power Corporation

G = Good supply

ICB = international competitive bidding

kV = kilovolt

QCBS = quality – and cost-based system SCADA = system control and data acquisition

W-DSI = works contract, design W-SIM = supply, install and maintain

W-SI = supply and install

SS = sole source

exclusive of taxes, duties and price contingencies

= a single-stage, two envelope procedure will be used. Separate envelopes for technical and financial proposals will be

submitted simultaneously. Bids will be evaluate using an 80:20 technical/financial weighting.

= EPC will pregualify in accordance with ADB's *Procurement Guidelines* (2007, as amended from time to time). Bidding for the

Upolu diesel power station, inclusive of plant and control equipment, will be limited to prequalified bidders.

= contract to cover supply, installation and maintenance of prepayment meters until 31 December 2014.

e = contract to cover operation, maintenance and upgrading of SCADA system until 31 December 2015.

Sources: RRP updated by PMU and Egis Bceom International, Approved by PMC, October 10th 2008

## **REVISED INVESTMENT PLAN ON DECEMBER 31, 2010**

No.	Location	Contract Description	Procurement Method	Actual Contract or Orig Budget	Variation + (incr) or -(decr)	Actual Contract Value & Budget	Contract decr. or - incr.	Revised dates of bids Advertisement	Prior Review (Y/N)	Coordinator(s)
	CORE SUBPROJECTS									
1	Upolu	Hospital Feeder Upgrade - Stage 1	ICB Goods	0.186		0.186	0.2139	9-Apr	Υ	Tau
			ICB Equip	0.125	0.067	0.192	0.0778	9-Aug	Υ	Tau
2	Upolu/Savaii	Single & 3 phase Prepayment Meters <sup>1</sup>	ICB Goods & Works	5.583	0.115	5.698	0.8722	8-Mar	Y	Perelini
3	Upolu	Project Manager	Individual selection	0.75		0.75	0	7-Jan	Υ	Tolo
4	Upolu  CANDIDATE SUBPROJECTS	Project Implementation Consultants - 73 man-months	QCBS	2.67		2.67	0	7-Oct	Y	Perelini
	UPOLU Generation									
5	Upolu	Tanugamanono Power Station Noise and Emission Control Program	ICB Goods	0.1		0.1	ī.	10-Jun	Y	Perelini
			ICB Equipment	0.07		0.07	-	10-Aug	N	Perelini
6	Upolu	Refurbishment of Alaoa Hydro Power Station	ICB Goods & Installation	1.291		1.291	0.049	9-Jul	Υ	Mau, Brendan
			ICB Works	0.459		0.4591	-0.4591			Alfred
7	Upolu	Fiaga Diesel Power Station	ICB Equip. & Installation					9-Oct	Υ	Perelini
		Relocate 3 Tanugamanono generators	ICB	1.5		1.5	0	10-Dec	Υ	Perelini

	1	Access road & site survey	Shopping	0.05		0.05	0	9-Aug	Υ
		Road & site design	Shopping	0		0	0.01	9-Oct	Υ
		Road construction & water pipe	ICB Works	0.802	0.12	0.922	-0.322	10-Jan	Υ
		Site Preparation	ICB Works	0.098	0.015	0.113	0.637	10-Jan	Υ
		Water well drilling & test pumping	Shopping	0.1		0.1	-0.07	9-Sep	Υ
		Water supply design & construction	ICB	0.25		0.25	0.5	10-Jan	Υ
		Security Fence	ICB Works	0.211		0.211	-0.211		
		Power house & Generators	ICB Equip Supply & Install	14.65	12.031	26.681	-12.031	9-Oct	Υ
		Electrical switchgear	ICB Equip & Installation	4.102	0.25	4.352	-0.459	9-Oct	Υ
		Extend (UG) powerline to site	ICB Equip Supply & Install by EPC	0.2		0.2	-0.1	10-Jan	Υ
		Fuel, oil, waste oil storage facilities	ICB Equip Supply & Install	1.5		1.5	-0.12	10-Feb	Υ
		Land acquisition improvements		0		0	0.484	9-Nov	Υ
	UPOLU Transmission								
8	Upolu	Alaoa Feeder Upgrade	ICB Equip Supply	0.186		0.253	0.377	9-Apr	Υ
			ICB Equip Install	0.125	0.067	0.192	0.298	9-Aug	Υ
9	Upolu	Fiaga to Fuluasou substation 33 kV underground cable	ICB Equip Supply	4.46		4.46	-1.557	10-Jul	Υ
			Works by EPC	0.75	0.363	1.113	1.79	<b>10-Sep</b>	Υ
10	Upolu	Hospital Feeder Upgrade - Stage 2	ICB Equip Supply	1.014		1.014	0.286	9-Sep	Υ
			ICB Equip Install	0.741		0.741	0.059	10-Jan	Y
11	Upolu	Fuluasou Substation <sup>3</sup>	ICB Equip Supply & Install	2.747		2.747	0	10-Jan	Υ
12	Upolu	Low Voltage Network Improvements	ICB Equip Supply	0.38		0.38	0.91	9-Sep	Υ
			Works by EPC						

		Fuluasou substation to Apia Wharf	1	1 1	1	1			
13	Upolu	22kV underground cable	ICB Equip Supply	0.364		0.364	o	12-Jan	Υ
			Equip install by EPC	0.088		0.088	0.277		γ
14	Upolu	22kV Overhead conductor upgrade	ICB Equip Supply	1.014	0.363	1.377	2.286	9-Sep	Υ
			ICB Equip Install	2.154		2.154	1.646	9-Oct	Y
	SAVAI'I Generation								
15	Savaii	Hydropower scheme	ICB	7.7		7.7	0	12-Oct	Υ
	SAVAI'I Transmission								
16	Savaii	Puapua-Asau OH line reconductoring	ICB Equip Supply	0.186		0.186	0.434	9-Apr	Υ
			ICB Equip Install	0.711		0.711	-0.091	9-Aug	Υ
17	Savaii	Low Voltage Network Improvements	ICB Equip Supply	0.56		0.56	0	9-Sep	Υ
			Works by EPC				0	10-Jan	
	Measurement Equipment								
18	Upolu/Savaii	Measurement equipment: stream flow gauging	Shopping	0.062		0.062	-0.012	8-Oct	N
19	Upolu/Savaii	Measurement equipment: electric HV/current	Shopping	0.058		0.058	0.002	8-Oct	N
20	Upolu/Savaii	SCADA	ICB Equip & Install	3.48		3.48	0	10-Jan	Υ
	APPROVED NEW SUBPRO	JECTS							
21	Savaii	Refurbishment of Salelologa diesel power station <sup>4</sup>	ICB Equip & Install	5.8		5.8	0	9-Oct	Y
22	Upolu/Savaii	Vending System <sup>5</sup>	Shopping	0.2		0.2	0.25	9-Jul	N
23	Upolu/Savaii	Public dissemination		0.1		0.1	0	9-Jan	N

		Taelefaga, Lalomauga & Samasoni hydros & Tanugamanono power							
		station 22 KV switchgear							
24	Upolu	replacement <sup>6</sup>	ICB Equip & Install	2.349	0.202	2.55	-0.202	10-Jan	Υ
25	Upolu	Power System Planning Software	Shopping	0.051		0.051	0.009		N
		Refurbishment of Tanugamanono							
26	Upolu	generators <sup>8</sup>	ICB Equip & Install	1.178	0.5	1.678	-0.278	9-Jul	Υ
	APPROVED EPC, NOT APPR	OVED ADB, NEW SUBPROJEC	TS						
27	Upolu	Vaipu Pumping Scheme <sup>7</sup>	Civil works	0.5		0.5	0	9-Dec	Υ
28	Upolu	Upolu Hydro Schemes <sup>9</sup>	ICB	3.51		3.51	0	10-Feb	Υ
	NOT YET APPROVED EPC/ A	DB, NEW SUBPROJECTS							
29	ALL	Training <sup>10</sup>	ICB	0.25		0.25	0		N
29	ALL					1			
30	Contingency:			75.414	14.092	90.574	-4.444		

### NOTES:

- 1 Prepayment meters installation contract is increased by US\$0.5m to lower 13,000 meters. EPC is seeking approval from ADB to fund materials to lower 10,500 meters.
- 2 33 KV underground transmission line from Fiaga NDPS/Fuluasou Sub Station/Tanugamanono Plant; includes two 300 mm<sup>2</sup> Al circuits, direct buried, materials purchased under Loan and EPC crew will do construction.
- 3 Fuluasou substation includes: 22 kV switchgear with of 9 CBs (4 x600A, 3x1200A, 2x200A CBs); 2-story building; NCC center; 100KVA standby generator; 2x15-20MVA 22/33kV Xmers; and 2x100KVA local Xmers; and 33kV s/gear with 6x600A CBs
- 4 For Salelologa, revised investment plan is based on 2 x 2MW new generators, new power plant, new switchgear, and 1 overhauled Cat. 3516 existing generator.
- 5 Increase budget from US\$0.25M to US\$0.45M to cover new card system & hardware to house it; new card system was launched in Feb 2010.
- 6 Increase to include 12 x 22 KV circuit breakers; 5 additional & 7 replacement of rest of Fuji 22 KV switchgear at Tanugamanono. New CBs include Alaoa feeder, Alaoa transmission line, Hospital, Beach Rd, 33/22KV tie from Fuluasou substation, 33/22 KV tie from Lalomauga,

bus tie, tie to 6.6 KV bus, West Coast, Vaitele, South Coast, & East Coast feeders. Budget for CBs in Alaoa and Hospital feeders upgrade removed from those subprojects and add to Taelefaga, Samasoni and Tanugamanono Switchgear subproject. Project is 50% complete on July 2010.

- 7 Funding for construction of pump station and pipeline ones Feasibility Study is completed and approved. Project awaiting decision by ADB and EPC to proceed with implementation.
- 8 Two diesel generators; Units 5A and 9A. First one is major overhaul, and second unit is replacement of crankshaft and major overhaul. Work on 9A started in July 2010.
- 9 Feasibility study started; selected 5 hydros (Vaisigano West Branch, Fuluasou, Tafitoala/Fausaga, Faleseela and Faleata/Seugagogo in Savaii) funding in IP is for construction; would need additional funding to be identified

Covers both Upolu and Savaii. Note that planned hydro in Sili is still on hold due to land dispute.

10 - Training to include: underground cable linemen, system controllers, operators, machinists, mechanics, telecommunication, and SCADA. Other training is included as part of equipment supply.

## **Appendix 4 - Revised Project Schedule**

TITLE OF SUBPROJECTS		2	800			20	09			20	)10			20	)11			20	12			20	13			20	)14	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
CORE SUBPROJECTS																												
Project Manager (0,37 + 0,38 unallocated)																												
Project implementation consultant: EBI (73 man-months)																												
Hospital Feeder Upgrading Project – Stage 1																												
Single- and Three-Phase Prepayment Metering Project																												
CANDIDATE SUBPROJECTS																												
UPOLU Generation																												
Tanugamanono Power Station Noise and Emission Control Program																												
Refurbishment of Alaoa Hydropower Station																												
Upolu Diesel Power Station Project																												
UPOLU Transmission																										П		
Upgrade of the Alaoa 6.6 kV Transmission Line to 22 kV Project																												
Upolu Diesel Power Station to Fuluasou Substation Underground Cable																												
Hospital Feeder Upgrading Project - Stage 2				i i	Î																							
22 kV Fuluasou Substation Project																												
Low-Voltage Network Expansion Program																												
Fuluasou Substation to Apia Wharf Area 22 kV Underground Cable Project																												
Fuluasou Substation to Leulumoega via Vaigaga 22 kV Underground																												
22 kV Overhead Conductor Upgrading Program																												
SAVAII Generation																												
Hydropower Scheme																												
SAVAI'I Transmission																												
Puapua–Asau Transmission Line 22 kV Reconductoring Project																												
Low-Voltage Network Expansion Program																												
Measurement Equipment																												
Stream Flow Gauging Equipment																												
Electrical Test Equipment																												
SCADA																												
APPROVED NEW SUBPROJECTS																												
Refurbishment of Salelologa Diesel Power Station																												
Vending System																												
Public Dissemination																												
Taalefaga Switchgears																												
Samasoni Switchgears																												
Power System Planning Software																												
Refurbishment of Tanugamanono Power Station																												
Vaipu Pumping Scheme																												
Upolu Hydropowers																												

### **Appendix 5 - Revised Disbursement Projections**

TITLE OF SUBPROJECTS	ADB	Award	Revised		20	008			2	009			20	10			20	11			20	12			20	13			20	14		7
	categ*	Date	Budget	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total
CORE SUBPROJECTS			(\$M)																													
Project Manager (0,37 + 0,38 unallocated)	4	Q4 2007	0.75	0.06	0.06	0.06	0.08	0.0625	0.0625	0.0625	0.0625	0.0625	0.0625	0.0625	0.0625																	0.75
Project implementation consultant: EBI (73 man-months)	4	Q1 2008	2.67			0.28	0.1445	0.1445	0.1445	0.1445	0.1445	0.2779	0.2779	0.2779	0.2779	0.2779	0.2779													1	$\neg$	2.67
Hospital Feeder Upgrading Project – Stage 1	3	Q1 2009	0.60						0.15		0.15	_																			$\neg$	0.60
Single- and Three-Phase Prepayment Metering Project	3	Q3 2008	5.67				0.567	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189	0.3189									5.67
CANDIDATE SUBPROJECTS																																
UPOLU Generation																														1	$\neg$	
Tanugamanono Power Station Noise and Emission Control Program	3	Q4 2009	0.17									0.0255	0.0289	0.0289	0.0289	0.0289	0.0289															0.17
Refurbishment of Alaoa Hydropower Station	3	Q3 2009	1.34								0.201					0.1627		0.1627														1.34
Upolu Diesel Power Station Project including 6.6kV/33kV/22kV Substation	3	Q1 2010	22.27										*****	3.3405		1.1831			1.1831	1.1831	1.1831	1.1831	1.1831	1.1831	1.183	1.183	1.183	1.183	1.183	1.183		22.27
UPOLU Transmission																																
Upgrade of the Alaoa 6.6 kV Transmission Line to 22 kV Project	- 3	Q3 2009	1.14								0.285	0.285	0.285	0.285																		1.14
Upolu Diesel Power Station to Fuluasou Substation Underground 33 kV Cable Project	3	Q1 2010	3.12										0.78	0.78	0.78	0.78																3.12
Hospital Feeder Upgrading Project - Stage 2	3	Q4 2009	3.20									0.48	0.544	0.544	0.544	0.544	0.544															3.2
33kV/22 kV Fuluasou Substation Project		Q2 2010	2.93											0.7325	0.7325	0.7325	0.7325															2.93
Low-Voltage Network Expansion Program	3	Q2 2010	1.29											0.1613	0.1613	0.1613	0.1613	0.1613	0.1613	0.1613	0.1613											1.29
Fuluasou Substation to Apia Wharf Area 22 kV Underground Cable Project	3	Q2 2012	0.00																			0	0	0	0	0	0	0.000			$\Box$	0
Fuluasou Substation to Lalomauga via Tanugamanono	3	Q2 2012	2.78																			0.4176	0.3944	0.3944	0.394	0.394	0.394	0.394				2.78
22 kV Overhead Conductor Upgrading Program	3	Q3 2009	6.03	0.188	0.188						0.8481	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	0.267	1		6.03
SAVAII Generation																																
Hydropower Scheme	3	Q3 2012	10.65																					1.5974	1.293	1.293	1.293	1.293	1.293	1.293	1.293	10.65
SAVAI'I Transmission																														1		
Puapua–Asau Transmission Line 22 kV Reconductoring Project	3	Q3 2009	1.24								0.186	0.3513	0.3513	0.3513																		1.24
Low-Voltage Network Expansion Program		Q2 2010	0.56											0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056									0.56
Measurement Equipment																														ı		
Stream Flow Gauging Equipment		Q3 2008	0.05				0.05	5																						ı		0.05
Electrical Test Equipment Equipment	3	Q3 2008	0.06				0.0577	7																								0.06
SCADA	3	Q4 2009	3.48									0.3164	0.3164	0.3164	0.3164	0.3164	0.3164	0.3164	0.3164	0.3164	0.3164	0.3164								1		3.48
CORE AND CANDIDATE SUBTOTAL			70.00	0.25	0.25	0.34	0.88	0.53	0.68	0.68	2.20	2.70	3.39	7.68	4.89	4.83	4.05	2.47	2.30	2.30	2.30	2.56	2.22	3.44	3.14	3.14	3.14	3.138	2.743	2.476	1.293	70.00
APPROVED NEW SUBPROJECTS																																
Refurbishment of Savaii Diesel Power Station	- 3	Q2 2009	5.90	İ						0.7375	0.7375	0.7375	0.7375	0.7375	0.7375	0.7375	0.7375													ı — — — —		5.9
Vending System	- 3	Q1 2009	0.25				0.095	0.16																						i		0.25
Public Dissemination	3	Q1 2009	0.100			0.008			0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.100
Refurbishment of Taalefaga Switchgears	3	Q2 2009	1.10							0.165	0.2338	0.2338	0.2338	0.2338																	$\neg$	1.1
Refurbishment of Samasoni Switchgears	3	Q2 2009	0.50							0.075	0.125	0.125	0.125	0.125																		
Power System Planning Software	3	Q3 2008	0.06				0.08	6																								0.06
APPROVED EPC. NOT APPROVED ADB. NEW SUBPROJECTS																																
Vaipu Pumping Scheme		Q1 2010	0.50										0.125	0.125	0.125	0.125														ı — —		0.5
Refurbishment of 2 only Tanugamanono Diesel Generators	3	Q3 2009	0.75					1			0.1125	0.2125																			$\neg$	0.75
NOT YET APPROVED EPC/ ADB. NEW SUBPROJECTS																												i			一	
Upolu Hydro Generation	3	Q1 2010	3.51										0.8775	0.8775	0.8775	0.8775															$\neg$	3.51
	Ì																														$\neg$	
GRAND TOTAL			82.67	0.25	0.25	0.35	1.04	0.68	0.68	1.66	3.41	4.01	4.83	9.12	5.76	5.69	4.79	2.47	2.31	2.31	2.31	2.56	2.22	3.45	3.14	3.14	3.14	3.14	2.75	2.48	1.30	82.17
*ADB category: 1.Land Acquisition and Restlement				_	_	•				•		_																_				

<sup>2.</sup> Civil Works

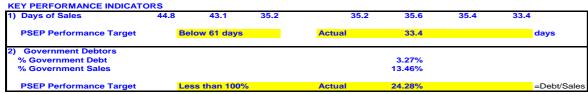
<sup>3.</sup> Equipment Supply and Installation

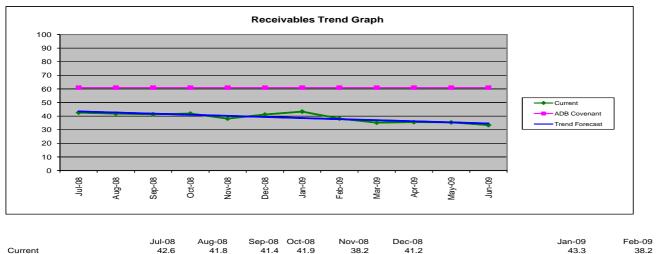
<sup>4.</sup> Consultant Services

### **Appendix 6 - Electricity Receivables**

# Schedule 3.1 Government and Private Sector Electricity Arrears

	Pre	vious Quart	ers			Previous Month	Current Month		Variance
Month ended	30-Sep 2008	31-Dec 2008	31-Mar 2009	31-Mar 2009	30-Apr 2009	31-May 2009	30-Jun 2009		May vs June
By Consumer Category	\$000	\$000	\$000	\$000	\$000	\$000	\$000	%	\$000
Ministries State-Owned Entities CSO Street Lighting	99 353 155	227 351 -	99 223 -	99 223 -	294 229 -	208 250 -	105 134 -	1.44% 1.83% 0.00%	(103) (116) -
Total Government	607	578	322	322	523	458	239	3.27%	(219)
Private Sector Debit Note	7,567 906	7,430 899	6,576 824	6,576 824	6,471 799	6,500 791	6,259 817	85.56% 11.17%	(241) 26
Grand Total	9,080	8,907	7,722	7,722	7,793	7,749	7,315	100.00%	(434)
By Aged Debtor Profile	\$000	\$000	\$000	\$000	\$000	\$000	·	%	
Current	4,566	4,184	3,314	3,314	3,416	3,365	2,973	40.64%	(392)
1 - 30 days arrears	1,380	1,563	1,255	1,255	1,237	1,323	1,275	17.43%	(48)
31 - 60 days arrears	487	581	611	611	546	510	509	6.96%	(1)
61 - 90 days arrears	462	500	454	454	502	447	420	5.74%	(27)
over 90 days arrears	1,279	1,180	1,264	1,264	1,293	1,313	1,321	18.06%	` 8
Debit Note	906	899	824	824	799	791	817	11.17%	26
Total	9,080	8,907	7,722	7,722	7,793	7,749	7,315	100.00%	(434)
ARREARS (excl Current)	4,514	4,723	4,408	4,408	4,377	4,384	4,342		
12 month total sales	\$74,000	\$75,500	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000		





ADB Covenant

61

Apr-09

35.6

35.2

61

May-09

35.4

Jun-09

33.4

61

**Appendix 7 – Prepayment Meter Installation Projection & Actuals** 

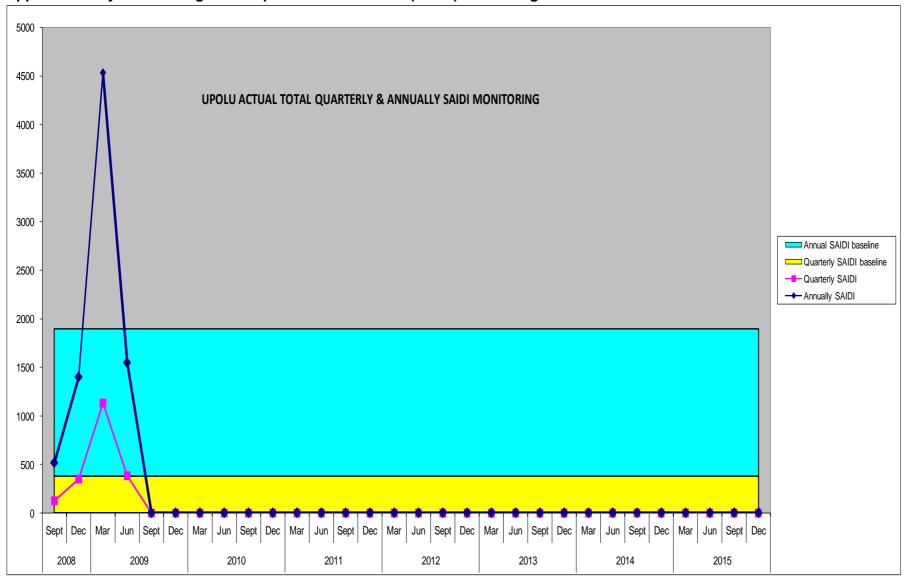
		Projected	Project		Actual	Actual Total	Actual % of
		Customers	Total		Customers	Numbers of	Customers
		with	Customers	Projected % of	with	Customers	with
		Payment		Customers with	Prepayment		Prepayment
		Meters		Prepayment	Meters		Meters
		Installed		Meters Installed	Installed		Installed
	Sep	5,000	29,800	16.8%	4,760	31,000	15.35%
2008	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%
2009	Dec	12,065	30,600	39.4%	16,692	33,566	49.73%
	Mar	13,300	30,750	43.3%	23,415	36,584	64.00%
	Jun	14,560	30,900	47.1%	23,688	36,634	64.66%
	Sep	15,815	31,050	50.9%			
2010	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%			
2011	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%			
2012	Dec	26,230	32,400	81.0%			

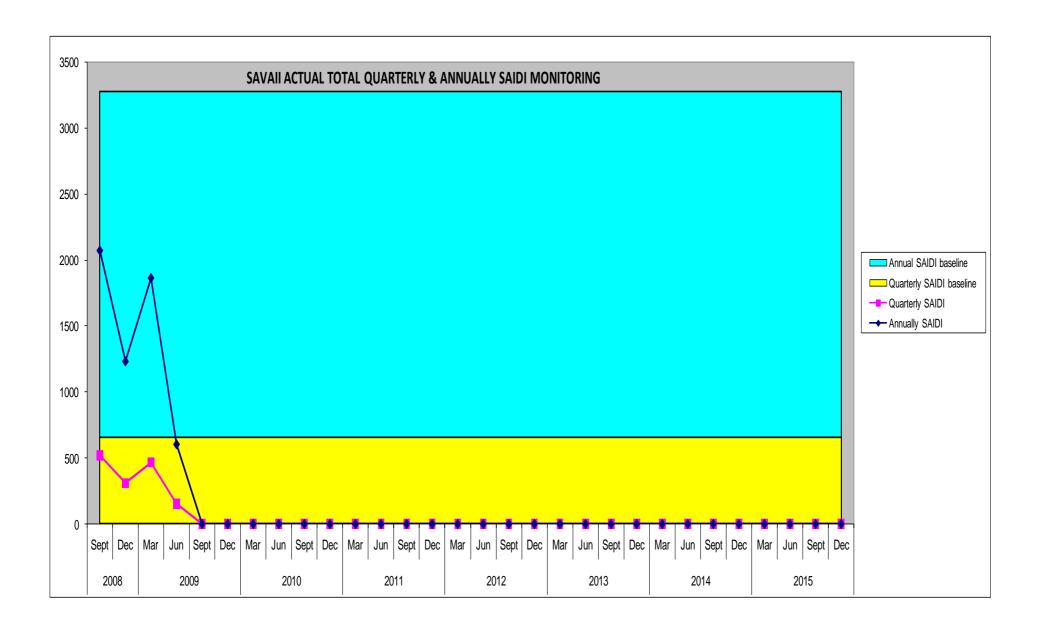
Note: Loan buydown mechanism requires 75% of all EPC's electricity customers to be prepayment meters by

Note: Loan buydown mechanism requires 75% of all EPC's electricity customers to be prepayment meters by December 2012

Project Target is to get 75% of consumers on Cash Power Meters at end of project in 2016. At end of 2<sup>nd</sup> Quarter of 2011, 64.67% of consumers are already on Cash Power. There is 10.33% needed to meet target. About 2,000 additional meters are needed added to A D Riley's present contract to complete the 75%. Quotations were received from ADR and two other suppliers for supply of 2000 single phase meters and 100 three phase meters without current transformers. Decision to order has not been made by EPC.

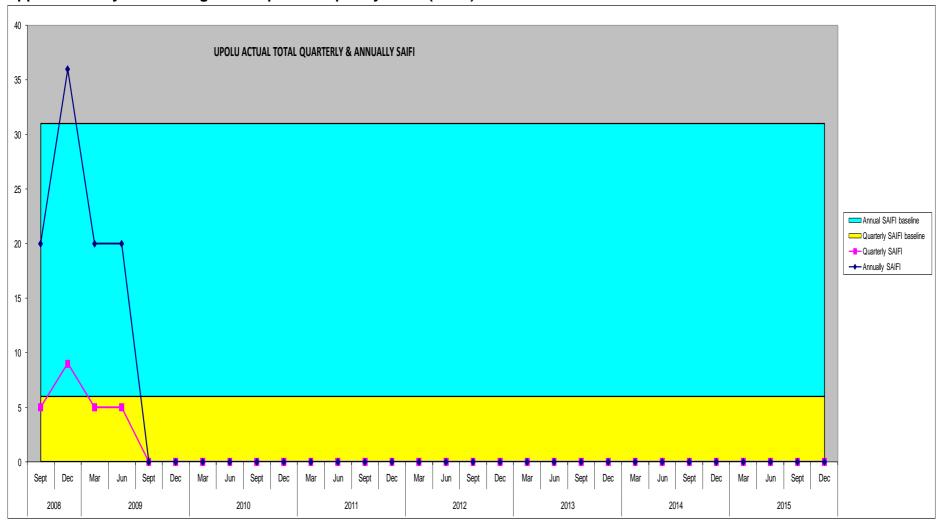
Appendix 8 - System Average Interruption Duration Index (SAIDI) Monitoring

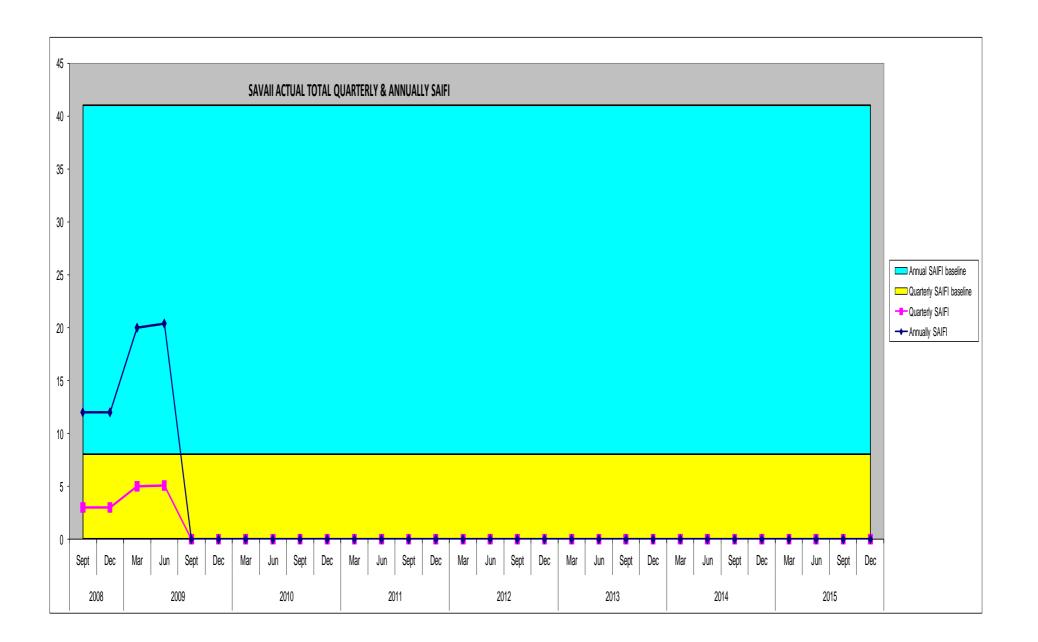




- SAIDI to be reduced by 20% by 2015
- Plan interruption is included since 1<sup>st</sup> Quarter 2009.

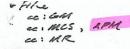
### Appendix 9 – System Average Interruption Frequency Index (SAIFI)





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

### Appendix 10 – Memorandum of Understanding of ADB REVIEW Mission in October 2008





Asian Development Bank

LOANS 2368/8232 AND GRANTS 0087/0101-SAM: POWER SECTOR EXPANSION **PROJECT** TA-4994 SAM: IMPLEMENTING THE SAMOA NATIONAL ENERGY POLICY

### MEMORANDUM OF UNDERSTANDING REVIEW MISSION

### INTRODUCTION

A review mission<sup>1</sup> (the Mission) from the Asian Development Bank (ADB) visited Samoa from 11-19 March 2009 to (i) review progress on Loans 2368/8232 and Grants 0087/0101-SAM: Power Sector Expansion Project (Project), and (ii) assess progress on TA-4994 SAM: Implementing the Samoa National Energy Policy. The Executing Agency (EA) for the Project is the Ministry of Finance (MOF), and the Implementing Agency (IA) is Electric Power Corporation (EPC). A list of persons met is included in Appendix 1. A Project Steering Committee meeting was held on 17 March 2009<sup>2</sup>. A wrap-up meeting was held on 19 March 2009 at MOF. This Memorandum of Understanding (MOU) records the understandings reached between the MOF, EPC and ADB.

### MISSION FINDINGS

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

Contract Awards and Disbursements. The cumulative commitments and disbursements as of 8 March are detailed below (seven months into implementation)3:

Fund Source	Loan/Grant Amount (at time of approval)	US\$ Equivalent (8 March 2009)	Commitments	%	Disbursements	%
2368-SAM (Loan)	26,610,000	25,099,633	1,669,291	7%	664,212	3%
8332-SAM (JICA Loan)	38,000,000	46,840,101	2,520,497	5%	534,796 -	1%
0087-SAM (ADB Grant)	15,390,000	15,390,000	3,159,209	21%	633,051	4%
0101-SAM (AusAID Grant)	8,000,000	8,000,000	1,003,945	13%	173,311	2%
	88,000,000	95,329,734	8,352,942	9%	2,005,370	2%

The Mission comprised Anthony Maxwell, Team Leader (11-19 March 2009), and Susan Francisco, Operations Officer (13-18 March 2009). Alan Coulthart, Principal Infrastructure Advisor, Australian Agency for International Development (AusAID), also accompanied the mission (13-18 March 2009)

and Environment (MNRE), Samoa Water Authority (SWA), and Er o. About an Authority and Er o. About and Authority (SWA), and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. About an Authority and Er o. Abo

Development (AusAiD), also accompanied the mission (13-16 mark) 2569.

The PSC was attended by MOF, Ministry of Commerce, Industry and Labor (MCIL), Ministry of Natural Resources and Environment (MNRE), Samoa Water Authority (SWA), and EPC. ADB and AusAID attended as observers.

- 3. Conversion of Loan to Grant. The Project Report and Recommendation to the President (RRP) para. 47 and para. 8 (c) of the Subsidiary Financing Agreement<sup>4</sup> 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 Agreement<sup>5</sup> requires a conversion mechanism to be established. EPC and MOF agreed that the established performance triggers under the loan buy down mechanism would be suitable for conversion of the loan to grant. MOF indicated that they would formally advise ADB of this decision by 3 April 2009.
- 4. EPC Financial Projections and Project Counterpart Financing. EPC submitted the 2009 financial projections to ADB on 5 March 2009. The projections indicate that, based on the current implementation schedule, EPC would require a tariff increase of 13% in January 2010. Given the recent tariff increase of 10% in January 2009, it was agreed that there may be difficulties in achieving this increase. The projections for financial year 2009 indicate that, due to financial difficulties experienced over the first 6 months, (i) EPC will have a self-financing ratio of 6% (below the loan covenant of 12%), and (ii) EPC are projected to meet the loan covenants related to debt service and accounts receivable. In financial year 2008, EPC did not meet the self-financing or debt service covenants. The Mission raised its concern regarding EPC's capacity to generate sufficient cashflow to service counterpart financing obligations. The PMU proposed to revisit the subproject implementation schedule and assess the impact on the required tariff increase. The PMU agreed to forward to ADB the results of this assessment by 24 April 2009.
- 5. **PMU Staffing.** The PMU manager is currently in an acting capacity. EPC agreed to undertake necessary actions to establish a permanent PMU Manager<sup>6</sup>. The PMU indicated that the allocated resources under the Implementation Consultant contracts are declining rapidly. The PMU indicated it was preparing a human resource plan covering allocation of remaining budget to separate subprojects, which would be forwarded to ADB by 24 April 2009.
- 6. **Salelologa Diesel Power Station.** The Mission visited the Salelologa power station on 14 March 2009, to assess the proposed subproject. The subproject is divided into 2 phases. The PMU proposed to reassess Phase 2 of the subproject, which includes 2 new 2MW diesel generators, given the relative high cost of these items, and advise ADB of the revised proposal by 24 April 2009.
- 7. **Foreign Exchange Rate Losses.** The PMU noted that there had been additional costs for some subprojects related to exchange rate losses during JICA disbursement. ADB agreed to discuss with JICA, and MOF agreed to write to JICA and Bank of Tokyo regarding the issue.
- 8. Installation of Prepayment Meters. Implementation of the prepayment meter subproject is ongoing. Installation rates are presented in Appendix 6. Refusal rates have increased to an estimated 30% in some areas, primarily due to an interpretation of the Prepayment Metering Policy which provides the customer with a right of refusal if they have a good payment record with EPC. To ensure prepayment meter implementation targets are achieved, MOF and EPC have proposed the following:

PMU/EBI

<sup>&</sup>lt;sup>4</sup> Subsidiary Financing Agreement (Power Sector Expansion Project) between Independent State of Samoa and Electric Power Corporation, 16 June 2008.

<sup>&</sup>lt;sup>5</sup> Financing Agreement between Independent State of Samoa and Asian Development Bank for the Power Sector Expansion Project, 11 December 2007.

<sup>&</sup>lt;sup>6</sup> EPC indicated to the PSC on 16 March 2009 that the proposal for establishing a permanent PMU manager would be submitted to the next EPC Board meeting.

- (i) Revise the Prepayment Metering Policy to require consumers to change to prepayment meters.
- (ii) Installation of card vending facilities to improve access for customers.
- (iii) Introduction of fiscal incentives for customers to install prepayment meters, such as altering the costs of standard billing to reflect full cost recovery and providing power discounts for customers who install prepayment meters.
- (iv) Improved public communication activities.
- 9. Customers are also complaining that some meters are installed too high to easily enter the prepayment code. The PMU also considers this to be a health and safety concern. The PMU has proposed to assess alternatives and advise ADB of the proposed option.
- 10. **Loan Buy Down Mechanism.** The Project includes a loan buy down mechanism<sup>7</sup> of \$4 million for conversion of loan to grant, funded by AusAID. A summary of progress towards the performance targets is presented below.

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 Cabinet has approved (i) the proposed structure of the recommended Office of the Power Regulator and (ii) the schedule for drafting the Electricity Act and Regulations and the appointment of the Power Regulator. ADB is providing assistance (grant financed by AusAID) for drafting legislation under TA 4994-SAM: Implementing the Samoa National Reform Energy Policy. The Electricity Act and Regulations have been drafted and 4 public consultation workshops held. A roundtable meeting was held on 18 March 2009. The documents will be finalized by mid-April 2009 and the Attorney Generals office proposes to submit to Parliament for the June session for the first two readings. It is anticipated that the third reading will then occur in the September 2009 sitting of Parliament, after which the Electricity Act and Regulations will be passed.
Improvement of EPC's debt collection performance such that accounts receivable shall not have exceeded 2 months of electricity sales for a minimum of two years	Receivables are 38.2 days as of 31 February 2009. Receivables have remained below 2 months since 30 September 2007 (17 months). Curren data for receivables is presented in Appendix 5.
Usage of prepaid meters by 75% of all EPC's electricity customers by 31 December 2012	Currently 24.9% of EPC's customers are using prepaid meters. The installation of prepaid meters is on-going. Installation projections fo prepaid meters are included in Appendix 6.

## TA-4994 SAM: Implementing the Samoa National Energy Policy

- 11. Component 1 and 2: Establishment of the Clean Energy Fund (CEF) and the Designated National Authority (DNA). The second interim report was submitted on 3 March 2009. A workshop was held on 13 March 2009 with key government departments to discuss the report. Consensus was reached on the following key issues:
  - (i) The CEF and DNA would be managed together under a single management unit established under the Energy Unit, MOF.
  - (ii) An inter-ministerial body would be established to guide the DNA, chaired by the CEO of MOF, who would also be the DNA focal point.

Toan 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.

- MOF indicated that the letter nominating the MOF CEO as Designated National (iii) Authority is proposed to be signed by the Prime Minister and forwarded to the United Nations Framework Convention on Climate Change (UNFCCC) by 27 April 2009.
- Component 3: Regulatory and Policy Reform in the Power Sector. Component 3 has conducted 4 public workshops, consulted key stakeholders and drafted the Electricity Act and Regulations providing the regulatory framework for the independent Office of the Power Regulator. A stakeholder roundtable was held on 18 March 2009. The following is proposed:

Finalize Draft Electricity Act and Regulations incorporating Mid-April 2009

stakeholder comments

Draft Electricity Act and Regulations submitted to Parliament for June 2009

first two readings

Draft Electricity Act and Regulations submitted to Parliament for September 2009

final reading

Component 4: Resident Financial Management Advisors to EPC. Component 4 is ongoing, with two financial advisors providing ongoing support to EPC. The financial advisors are proposing their next mission to Samoa in April 2009. EPC has indicated that they were satisfied with the support provided to date.

### Other Projects

- TA-7121 SAM: Preparing the Afulilo Environmental Enhancement Project The project preparation technical assistance Preparing the Afulilo Environment Enhancement Project is financed by the Japan Special Fund for \$1.2 million. were mobilized to Samoa on 9 March 2009. The EPC indicated that the current Generation Section head would manage TA 7121-SAM under the guidance of the EPC General Manager. The Consultants are undertaking initial activities under the TA, and the ADB inception mission is proposed to be conducted in May 2009.
- RETA: 6485-REG: Promoting Energy Efficiency in the Pacific The regional technical assistance project RETA: 6485-REG: Promoting Energy Efficiency (\$1.2 million) will be implemented in Cook Islands, PNG, Samoa, Tonga and Vanuatu. Consultants have been selected and mobilization is anticipated in early April 2009. The IA in Samoa is MNRE. The Inception Mission is proposed to be conducted in May 2009.

#### OTHER MATTERS HI.

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 MOU are subject to the approval of higher authorities in GoS and ADB.

Signed in Apia, Samoa 18 March 2009

Ms. Hinaviri Petana

CFO Ministry of Finance

General Manager Electric Power Corporation Team Leader Asian Development Bank 5

### List of Persons Met

Chief Executive Officer

Ministry of Finance

Hinauri Petana

Noumea Simi Assistant CEO, Debt Management

Justina Sau
Assistant CEO, State Enterprise Monitoring Division
Benjamin Pereira
Assistant Chief Executive Officer, Economic Policy and

Planning Division

Silia Kilepoa Ualesi Energy Coordinator, Economic Policy and Planning Division

Electric Power Corporation

Mua'ausa Fiu Joseph Walter Chief Executive Officer
Vui Lance Lameko Manager, Corporate Services

Galumalemana Tologata Tile

Lei'a Tuimalealiifano Acting Project Manager, PMU Faumui lese Tomoimoana Generation Engineer, PMU

Taulealeausumai Tiotio
Magele Tafu Salevao
Leilani Pereira-Moeono
Transmission & Distribution Engineer, PMU
Acting Manager, Savai'i Power Station
Legal & Environment Advisor, PMU

Faalepo Solofa Project Accountant, PMU
Wairarapa Young Renewable Energy Officer
Bobby Ah To Renewable Energy Officer

EGIS-BCEOM (Project Implementation Consultants)

Fonoti Perelini Perelini Team Leader

Brendan Hegerty Transmission & Distribution Engineer

Office of the Attorney General

Rebecca Wendt Assistant Attorney General

Sarona Rimoni Principal Lawyer, Legislative Drafting Div.

Ministry of Natural Resources and Environment

Tu'u'u Laufatasaga Dr. Letitaia

Setu Taule'alo Chief Executive Officer

Uaine Loleni Silailai Asst. CEO, Renewable Energy

Steve Brown Asst. CEO, GEF

TA No. 4994-SAM Consultants

Michael Cheng Team Leader, PA Consulting (Component 3)

Hendrik Lund Team Leader (Component 1 and 2)
Unasa Leilani Va'a Tamati Legislative Drafter (Component 3)

Satui Bentin National Communication Expert (Component 1 and 2)

Australian High Commission

Heather Dixon 2<sup>nd</sup> Secretary, Development Cooperation

Alan Coulthart Principal Infrastructure Advisor, Australian Agency for

International Development (AusAID)

Secretariat of the Pacific Regional Programme (SPREP)

Solomone Fifita Program Manager, Pacific Islands Greenhouse Gas

Abatement through Renewable Energy Project (PIGGAREP)

## Revised Procurement Plan

Location	Contract Description	Estimated Cost (\$ million)	Procurement Method
1. Upolu	Hospital Feeder Upgrading Project - Stage 1	0.25	ICB Goods
т. орога		. 0.35	NCB Works
2. Upolu/Savaii	Single- and three-phase Prepayment Metering	6.07	ICB
3. Upolu	Project Manager	0.37	
J. Opolu	Unallocated	0.38	
4. Upolu	Project Implementation Consultants	2.67	QCBS
5. Upolu	Tanugamanono Power Station noise and emission control program	0.17	ICB Goods
6. Upolu	Refurbishment of Alaoa hydropower station	1.34	ICB
7. Upolu	Fiaga diesel power station	22.27	ICB
8. Upolu	Upgrade of the Alaoa 6.6kV distribution line	0.65	ICB Goods
o. opola		0.49	NCB Works
9. Upolu	Fiaga diesel power station to Tanugamanono 33kV underground project and Fuluasou Substation	8.83	ICB
10. Upolu	Hospital Feeder upgrading project – Stage 2	3.20	ICB
11. Upolu/Savaii	Low voltage network improvement program	1.29	ICB Goods
12. Upolu	22kV overhead conductor upgrading program	6.03	ICB Goods
12. Opolu	ZZRV Overhodd dendaddir ap grammet		NCB Works
13. Savaii	Hydropower scheme	10.65	ICB
14. Savaii	Puapua-Asau transmission line 22kV	0.44	ICB Goods
14. Savali	reconductoring project	0.80	NCB Works
15. Upolu/Savaii	Measurement equipment electric high voltage/current	0.06	Shopping
16. Upolu/Savaii	Measurement equipment stream-flow gauging	0.05	Shopping
	SCADA	3.48	ICB
17. Upolu/Savaii 18. Savaii	Refurbishment of Salelologa Diesel Power Station	5.90	ICB ,
40 Upoli:	Vending System	0.25	Direct Contract
19. Upolu	Public Dissemination	0.10	Single Source
20. Upolu	Taelefaga and Samasoni Switchgears	1.60	ICB
21. Upolu	Power System Planning Software	0.06	Shopping
22. Upolu 23. Upolu	Refurbishment of Tanugamanono Diesel Generators	0.75	ICB
Total		82.67	

Appendix 3

## **Revised Project Schedule**

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# **Revised Disbursement Projections**

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Low-Vollege Hobsork Expansion Program		Q2 2010	1.29	1.0			0.00					- 6		0.10 0.	0 0.020	0.10	0.10	0.10	0,101	0.074	9.701	0,101	0	0	0	0	Ü	0	. 0	0	0.000	100	200	1,53	- 6	1
rubasen Substation to Ania Whorf Area 22 kV Underground Cable Project	1	3 02 2012	0.00	0.1			0.00	_				0			-			-		0		10.6	0.42	0.394	0.812	0.394	0.39	0.394	0.394	1.578	0.394	8181			0.394	
Fulhason Substation to Latemanna via Taminanaanono		3 Q2 2012	278				0.01				0.01	20.0	0.27 0.267	0.07 0	17 1 000	0.00	1 0 27	0.26	0.267	1 866	0.267	0.267				0.257	0.27	0.267	0.267	1.068	0.267	0.267	- 350	1	0,534	(
22 kV Overhead Conductor Upgradeig Program		3 03 2000	6.03	0.15	1.19		0.3			871	0.85	0.65	0.21 0.201	0.47 0.	1,000	0 40	0,21	0,29	0.40	0		1000				Mile.	Fair 1	(00)	Mile	0				100		
SAVAII Generation							0.0					U				-	-	-		0		1,40			0	1.597	1.29	1 293	1 293	5.477	1293	1.293	1,293	1 293	5,173	11
Hydropower Scheme		2 03 2812	10,65				0.0			979	300	- 0		1913	-	-	-	-	-	0		-			-	1.007			8/1	0	A Property	988			1553	
SAVAR Transmission					1		0.0	6	745	1		B				-		-	- 1948					-	A		-		500	- 0	14/6	100			. 0	
Purpura-Asau Transmission Line 22 IV Reconductoring Project		3 03 2009	124				0.0			0.186	0.35	0.54	0.35 0.351		0.70	-	1 0.5	200	e 5 050	0.001	0.DEc	0.000	0.06	250.0	0.224					- 0		500		100	- 1	
Low Voltage Hetwork Expansion Program	1	3 Q2 2018	0.56	100			0.0	0		12.8		0		1,05 0	08 0.11	2 0.05	10 11.00	0.00	6 0.056	0.234	0.000	0.000	0.00	0.000	9.221	200	-	Hamilton		- 0	100				10.50	Т
					21		0.0	6		1		0	Edition of the			0	1			l.			7.0					County I	Carrier State	1	51255				1	
Measurement Equipment	+	3 Q3 2006	0.05			0.0	8 0.0	5		1	58	- 0	Mark and A	0.50		Ū	100		100	1					· ·			1100	-	-			-		1	
Stream Flori Gauging Equipment	-	3 Q3 2003	_	1		0.0	6 0.0	6				0			8 135	0				1	1				U		-		-	1	-	-		-	-	1
Electrical Test Equipment Equipment	-	3 04 2009		-	-		0.0	-	- 1	100	-	0	0.32 0.316	032 8	32 126	5 031	18 03	2 0 31	6 0.316	1 26	0.316	0.316	0.32		0.949				-	l l		0.21	0.577	4 699	9.66	-
SCADA	-	3 124 2002	26.20	0.25	8 96 7	24 65	10 17	3 6.53	5.65	1 15	3.72			5.55 4	39 15.	3 43	33 3.7	8 3.4	7 3.31	14,5	3,31	3.31	2.56	2.22	11.4	3.44	3.14	4.07	3.14	13.	3.138	2.14	3 2.470	1.298	9,61	4
CORE AND CANDIDATE SUBTOTA	1	-	11,15	10.20	B.20 3	1.44 M.C	10 1.5	0,00	0.00	-	-							T				110	2				131		12-4	100	100	1	14.5		100	1
APPROVED NEW SUBPROJECTS					-		-	-		0.750	5.74	1.10	0.74 0.738	0.74 0	74 20	6 07	39 07	4		1.47	5	27	1353		0	file!		64	AT B	1	0			1500	1	0
Refurbishment of Savari Diesel Power Station		3 Q2 2009		_		_	-	-	-				0.74 0.750	0.14 0	17	7	33 1100				0		58.3		0	200	163			939	0		1	1		0
Vendari System		3 Q2 2009	0.25			-		-		0.09	0.15		0.004 0.004	n nat	80	0 0.0	04 0 00	4 00	0.00	0.01	4 0.00	8 604	0.004	0.001	0.014	0.004	0.004	0.004	0.00	0.01	1 0 004	0.00	4 6 007	0.004	0.01	4
Public Dissenington		3 Q1 2009		_		-			0.868	0.000	_				1.0		24 0.00	9 0.0	0.02	0.01	0			833	- 6	160	075	243	5130		0	9302		15.5	1/40	0
Tealstage and Senasoni Switchgeas	-	3 Q2 2005						1		0.2	0.34	0,58	0.34 0.44	0.04	1.0	6	+		-		0				11.55	083			The second		0	182	100	1	100	Û
Power System Planning Software		3 Q3 200i	0.06			0	05 03	38				ŧ			-	0	-	+	-	+	+-	-	-	NOST.	- 1			199			0	100	100		1	1
APPROVED EPC, NOT APPROVED ADB. NEW SUBPROJECTS	T			1						1. 4		PX	PARTIES.	0.40	15 05	25 0 .	ne	111		0.12	5	-		100	1						0	501	1	1888	100	0
Vapu Pumping Schane	1	3 01 201	0 050	100	-					S. S.	_	-		0.13	13 03		19	-		0.14	~	-	-		1			1		100	Ü	7	100	1000		0
Refusion Conty Tanagamanono Cesel Generalors		3 03 20									0.11	0.11	0.21 0.213	021	U.b	30	-	+		-	+	+	-	-				1000		1	B	1	T	Teas.	100	T
NOT YET APPROVED EPC! ADB, NEW SUBPROJECTS	T					11/2			130					2.00	. 00 0	25 0.0	90			0.03	50	-		12000	1		-0	E FOR		-	0			1000	1353	1
	-	3 Q1 28	10 35		800	17		5			36	-	0.878	039	168 25	33 0.8	116	-		0.67	V	-	-		-	-	1318				Sell.	3/3	a sales	200	land.	T
Uodu Hydra Generalian			PPS	300			0/4	R No.	300	1	1					44 -	10 1	ca a	10 90	9 17	31. 3.3	2 22	2 2 20	995	114	2.4	3.14	4.6	2 31	4 13.7	5 3.1	4 27	75 2.4	8 13	9.1	30
GRAND TOT	61		25.4	5 0.25	0.95	0.34 0	94 1	79 0.5	3 0.8	8 2.2	2 5.07	8,51	1 4.05 4.03	5.55	2.15 22	35 3	19 4.	04 3	40 1.0	11 11	14- 4.4	5.0	2 600	4.6.5	11,4	4.4	0.14	1.5	1	1		1	000000	-	2000	-

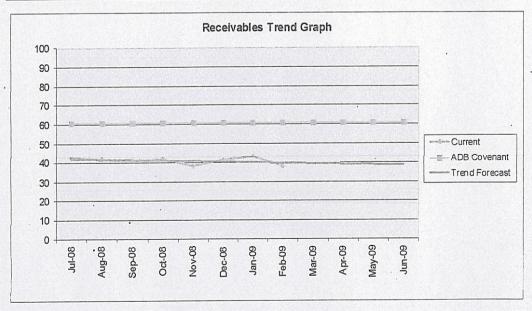
## **Electricity Receivables**

# Government and Private Sector Electricity Arrears

	Prev	ious Quart	ers	Previous   Month	Current Month		Variance
Month ended	30-Jun 2008	30-Sep 2008	31-Dec 2008	31-Jan 2009	28-Feb 2009		January vs February
By Consumer Category	\$000	\$000	\$000	\$000	\$000	%	\$000
Ministries	176	99	227	228	146	1.74%	(82)
State-Owned Entities	849	353	351	291	276	3.30%	(15)
CSO Street Lighting	269	155	-	112	_	0.00%	(112)
Total Government	1,294	607	578	631	422	5.04%	(209)
Private Sector	8,154	7,567	7,430	7,966	7,118	85.07%	(848)
Debit Note	802	906	899	893	827	9.88%	(66)
Grand Total	10,250	• 9,080	8,907	9,490	8,367	100.00%	(1,123)
By Aged Debtor Profile	\$000	\$000	\$000	\$000	\$000	%	
Current	4,785	4,566	4,184	4,870	3,754	44.87%	(1,116)
1 - 30 days arrears	1,826	1,380	1,563	1,403	1,522	18.19%	119
31 - 60 days arrears	855	487	581	567	531	6.35%	(36)
61 - 90 days arrears	506	462	500	487	465	5.56%	(22)
over 90 days arrears	1,476	1,279	1,180	1,270	1,268	15.15%	(2)
Debit Note	802	906	899	893	827	9.88%	(66)
Total	10,250	9,080	8,907	9,490	8,367	100.00%	(1,123)
ARREARS (excl Current)	5,465	4,514	4,723	4,620	4,613		
12 month total sales	\$74,000	\$75,500	\$80,000	\$80,000	\$80,000		

### KEY PERFORMANCE INDICATORS

1) Days of Sales	50.6	43.9	40.6	43.3	38.2
PSEP Performance Target	Be	low 61 days		Actual	38.2 days
Government Debtors     Government Debt     Government Sales					5.04% 13.46%
PSEP Performance Target	Le	ss than 100%		Actual	37.47% =Debt/Sales



		Projected	Project		Actual	Actual Total	Actual % of
		Customers	Total		Customers	Numbers of	Customers
		with	Customers	Projected % of	with	Customers	with
		Payment		Customers with	Prepayment		Prepayment
		Meters		Prepayment	Meters		Meters
		Installed		Meters Installed	Installed		Installed
	Sep	5,000	29,800	16.8%	4,760	31,000	15.35%
2008	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%
2009	Dec	12,065	30,600	39.4%	16,692	33,566	49.73%
	Mar	13,300	30,750	43.3%	23,415	36,584	64.00%
	Jun	14,560	30,900	47.1%	23,688	36,634	64.66%
	Sep	15,815	31,050	50.9%			
2010	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%			
2011	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%			
2012	Dec	26,230	32,400	81.0%			

Note: Loan buydown mechanism requires 75% of all EPC's electricity customers to be prepayment meters by

Note: Loan buydown mechanism requires 75% of all EPC's electricity customers to be prepayment meters by December 2012

### Appendix 11- Revised PMU Organisational Structure (Note: This Org Chart is out of date)

#### REVISED PROJECT MANAGEMENT UNIT ORGANISATIONAL STRUCTURE JUNE 2009 Project Manager Tile.Le'ia.Tuimalealiifano EBI Project Director D. Giraud EBI Team Leader P. S Perelini EBI Secretary P. Poe Senior T&D Engineer Senior Generation T. Aumalaga Engineer . Toimoana Legal & Environment Project Accountant F. Solofa Advisor EBI SCADA Engineer EBI Transmission & B. Pons Electronics (SCADA) Land Acquisition Distribution Engineer Power System Planner Officer Engineer B. Hegerty N. Pereira A. Tuuau R. Schuster EBI LAR Expert EBI Generation J. Williams Transmission Engineer Engineer Mechanical Engineer EBI Power System vacant vacant B. Hegerty Planner Environment Officer D. Giraud S. Faletolu Civil Engineer Distribution Engineer EBI Environment EBI Civil Engineer vacant vacant Expert T. Tinai C. Adamson Public Relation & **Electrical Engineer** <u>Draughtsman</u> Community Officer vacant M. Asiono \*Acronyms: LAR: Land Acquisition and Resettlement EBI: Egis Bceom International SCADA: System Control And Data Acquisition \*Implicit link: All experts from Egis Bceom International are under the responsibility of its Team Leader EBI's TL and PD have no authority on EPC/PMU staff

## Appendix 12 - Withdrawal Applications Register to date

		PPLICATIONS REGISTER-PO			USD\$		u	ISD EQUIVALENT		
	APPLICATION EC	SUMMARY SHEET FORM	COMPANY NAM	Category	Equiv	ADBL L2368	ADBG G0087	JICAL SAM-P1	AUSAID A0101	EPC COUNTERPART
		30WWART SHEET FORW	COMPANTIVAN							
TOTAL PR	OJECT FUNDS				100,000,000.00	26,610,000.00	15,390,000.00	38,000,000.00	8,000,000.00	12,000,000.00
WACCOL	Project Manager	VS ALREADY SUBMITTED Project Manager PCSS G01762\PM SSHT1 \	EPC	Consultant Services	42,272.37		42,272.37			2,271.75
WA0002	Implementation	PIA Mob Pmt Summary Sheet	EGIS	Consultant Services	266,402,33		266,402.33			14,316.65
WA0003	Power System P	Power Sys Planner Summ Sht 1	Digisilent Pac	Equipment Supply & Installation	38,694.01	11,995.14	2,708.58	18,186.18	5,804.10	_
WA0004 WA0005	Implementation Project Manager	PIA First Claim 30 Sep 08 PM SSHT 1 WA0005	EGIS EPC	Consultant Services Consultant Services	232,833.35 12,646.20		232,833.35 12,646.20			12,512.65 679.62
WA0006	HV Test Equipme	HV Equipment\WA0006 Summ Sheet1 HV	Electrotest	Equipment Supply & Installation	8,275.28	2,565.34	579.27	3,889.38	1,241.29	079.02
WA0007	Prepayment Me	\\PROJECTS\WITHDRAWAL APPLICATION	ARDRILEY	Equipment Supply & Installation	258,710.00	80,200.10	18,109.70	121,593.70	38,806.50	-
8000AW	Prepayment Me	PPM1207\WA0008 SSHT1 PPM Adv pmt.x PPM1207\WA0009 SSHT1 Claim 2	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	280,645.87 110,838.88	87,000.22 34,360.05	19,645.21 7,758.72	131,903.56 52,094.27	42,096.88 16,625.83	_
WA0010	Prepayment Me Prepayment Me	PPM1207\WA0010 SSHT1 Claim 2 PPM1207\WA0010 SSHT1 Claim 3	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	18,010.00	5,583.10	1,260.70	8,464.70	2,701.50	
WA0011	Stream Flow Gas	Gauging Equip SS 1	NIWA	Equipment Supply & Installation	42,742.13	13,250.06	2,991.95	20,088.80	6,411.32	1,080.00
WA0012 WA0013	PPM1207\WA00 PPM1207\WA00	PPM1207\WA0012 SSHT1 PPM1207.xls PPM1207\WA0013 SSHT1 PPM1207.xlsx	ARDRILEY ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	48,373.04 148,143.05	14,995.64 45.924.35	3,386.11 10,370.01	22,735.33 69.627.23	7,255.96 22,221.46	_
WA0014	PPM1207\WA00	PPM1207\WA0013 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	99,046.06	30,704.28	6,933.22	46,551.65	14,856.91	_
WA0015	HV Equipment\\	HV Equipment\WA0015 SSHT1 HV Test Eq	South Pac Exp	Equipment Supply & Installation	39, 131. 15	12,130.66	2,739.18	18,391.64	5,869.67	
WA0016 WA0017	PPM1207\WA00 PPM1207\WA00	PPM1207\WA0016 SSHT1 PPM1207.xIs PPM1207\WA0017 SSHT1 PPM1207.xIs	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	43,704.67 75,733.24	13,548.45 23,477.30	3,059.33 5,301.33	20,541.19 35,594.62	6,555.70 11,359.99	
WA0018	Implementation	Implementation Consultants\WA0018 Rev	EGIS	Consultant Services	154,938.01	23,477.30	154,938.01	33,394.62	11,339.99	8,330.09
WA0019	PPM1207\WA00	PPM1207\WA0019 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	12,464.30	3,863.93	872.50	5,858.22	1,869.65	_
WA0020 WA0021	PPM1207\WA00 PPM1207\WA00	PPM1207\WA0020 SSHT1 PPM1207.xls PPM1207\WA0021 SSHT1 PPM1207.xls	ARDRILEY ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	84,954.56 124,999.64	26,335.91 38,749.89	5,946.82 8,749.97	39,928.64 58,749.83	12,743.18 18,749.95	_
WA0022	Implementation	Implementation Consultants\WA0022 Rev	EGIS	Consultant Services	98,146.53		98,146.53			5,274.47
WA0023	PPM1207\WA00	PPM1207\WA0023 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	26,801.90	8,308.59	1,876.13	12,596.89	4,020.28	_
WA0024 WA0025	PPM1207\WA00 PPM1207\WA00	PPM1207\WA0024 SSHT1 PPM1207.xIs PPM1207\WA0025 SSHT1 PPM1207.xIs	ARDRILEY	Equipment Supply & Installation	131,985.73 98,193.32	40,915.58 30,439.93	9,239.00 6,873.53	62,033.29 46,150.86	19,797.86 14,729.00	-
WA0025	PPM1207\WA00	PPM1207\WA0026 SSHT1 PPM1207.XIS	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	19,084.10	5,916.07	1,335.89	8,969.53	2,862.62	_
WA0027	PPM1207\WA00	PPM1207\WA0027 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	132,007.47	40,922.32	9,240.52	62,043.51	19,801.12	_
WA0028 WA0031	\PROJECTS\WI	PPM1207\WA0028 SSHT1 PPM1207.xls\PROJECTS\WITHDRAWAL APPLICATION F	ARDRILEY	Equipment Supply & Installation	175,696.36 20,344.47	54,465.87	12,298.75 20,344.47	82,577.29	26,354.45	1,093.33
WA0031	22kV OH Upgrad	\PROJECTS\WITHDRAWAL APPLICATION F 22kV OH Upgrade\WA0029 SSHT1 22kvoh-	ARDRILEY	Consultant Services Equipment Supply & Installation	20,344.47 414,145.27	128,385.03	28,990.17	194,648.28	62,121.79	1,093.33
WA0030	\PROJECTS\WIT	\PROJECTS\WITHDRAWAL APPLICATION F	EPC	Equipment Supply & Installation	91,825.00	28,465.75	6,427.75	43,157.75	13,773.75	_
WA0032	\WAs\WA0032	\WA\$\WA0032 SSHT1 PPM1207(2).xis \WA\$\WA0033 SSHT1 PPM1207.xis	ARDRILEY ARDRILEY	Equipment Supply & Installation	135,688.40 165,752.10	42,063.40	9,498.19	63,773.55 77,903.49	20,353.26	_
WA0034	\WAs\WA0033 \WAs\WA0034	\WAs\WA0034 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation  Equipment Supply & Installation	188,806.52	51,383.15 58,530.02	11,602.65 13,216.46	88,739.06	28,320.98	_
WA0035	\WAs\WA0035	\WAs\WA0035 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	197,322.17	61,169.87	13,812.55	92,741.42	29,598.33	-
WA0036	\WAs\WA0036	\WAs\WA0036 SSHT1 PPM1207.xls \WAs\WA0037 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	18,618.19 103,749.82	5,771.64 32,162.44	1,303.27 7,262.49	8,750.55 48,762.41	2,792.73 15,562.47	_
WA0038	\WAs\WA0038	\WAs\WA0038 Withdrawal form PIA 4TH	ARDRILEY	Consultant Services	89,299.00	32,162.44	89,299.00	48,762.41	15,562.47	4,799.00
WA0039	\WAs\WA0039	\WAs\WA0039_Etel.xls	ETEL	Equipment Supply & Installation	204,364.30	63,352.93	14,305.50	96,051.22	30,654.65	_
WA0040 WA0041	\WAs\WA0040 \WAs\WA0041	\WA\$\WA0040 SSHT1 PPM1207.xls \WA\$\WA0041 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	56,197.09 10,054.64	17,421.10 3,116.94	3,933.80 703.82	26,412.63 4,725.68	8,429.56 1,508.20	_
WA0041	\WAS\WA0042	\WA\$\WA0041 SSHT1 PPM1207.xIs	ARDRILEY	Equipment Supply & Installation  Equipment Supply & Installation	32,131.52	9,960.77	2,249.21	15,101.81	4,819.73	_
WA0043	\WAs\WA0043	\WAs\WA0043 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	5,848.90	1,813.16	409.42	2,748.98	877.34	_
WA0044 WA0045	\WAs\WA0044	\WAs\WA#44 Olex.pdf	Olex	Equipment Supply & Installation	211,669.36 33.389.93	65,617.50	14,816.86 2.337.30	99,484.60 15.693.27	31,750.40 5,008.49	5.008.49
WA0045	\WA\$\WA0045	\WAs\WA0046 Revised Summ Sheet 1.x	Bluebird Ah Lal EGIS	Equipment Supply & Installation Consultant Services	93,460.37	10,350.88	93,460.37	15,693.27	5,008.49	5,008.49
WA0047	\WAs\WA0047	\WAs\WA0047 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	243,253.06 #	75,408.45	17,027.71	114,328.94	36,487.96	_
WA0048 WA0049	\WAs\WA0048	\WAs\WA0048 SSHT1 PPM1207.xIs	ARDRILEY	Equipment Supply & Installation	32,865.06 W	10,188.17 6,235.10	2,300.55	15,446.58 9,453.21	4,929.76	-
WA0049	\WAs\WA0049	\WA\$\WA0049 SSHT1 PPM1207.xIs \WA\$\WA0050 SSHT1 PPM1207.xIs	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	86.819.09	26,913.92	1,407.92 6,077.34	40.804.97	3,016.98 13,022.86	_
WA0051	\WAs\WA0051	\WAs\WA0051 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	129,619.76	40,182.13	6,077.34 9,073.38	60,921.29	19,442.96	_
WA0052	\WAs\WA0052	\WAs\WA0052 SSHT1 PPM1207.xls	ARDRILEY	Equipment Supply & Installation	44,651.26 45,479.70	13,841.89 14.098.71	3,125.59 3,183.58	20,986.09	6,697.69 6,821.96	_
WA0053	\WAs\WA0053	\WAs\WA0053_Olex.xls South Austral.xls	Olex South Austral	Equipment Supply & Installation Equipment Supply & Installation	58,062.54	17,999.39	4,064.38	27,289.39	8,709.38	_
WA0055	\WAs\WA0055	PPM1207.xls	ARDRILEY	Equipment Supply & Installation	128,761.75	39,916.14	9,013.32	60,518.02	19,314.26	_
WA0056 WA0057	\WAs\WA0056		ARDRILEY	Equipment Supply & Installation	140,865.74	43,668.38	9,860.60	66,206.90	21,129.86	8.386.34
WA0057		Withdrawal form PIA 6TH claim-1STJan10- Tenix-SAMPSEP03-Adv-nzd.xls	EGIS Tenix	Consultant Services Equipment Supply & Installation	156,051.66 95,128.62	29,489.87	156,051.66 6,659.00	44,710.45	14,269.29	8,386.34
WA0059	\WAs\WA0059	Tenix-SAMPSEP03-Adv-pounds.xls	Tenix	Equipment Supply & Installation	152,246.48	47,196.41	10,657.25	71,555.85	22,836.97	
WA0060	\WAs\WA0060	Bluebird AHLAL.xls	Bluebird Ah Lal	Equipment Supply & Installation	53,921.67	16,715.72	3,774.52	25,343.18	8,088.25	21,511.30
WA0061 WA0062		South Austral.xls North Power.xls	South Austral North Power	Equipment Supply & Installation Equipment Supply & Installation	275,830.00 126,204,51	85,507.30 39.123.40	19,308.10 8.834.32	129,640.10 59.316.12	41,374.50 18,930.68	
WA0063	\WAs\WA0063	North Power.xls	North Power	Equipment Supply & Installation	74,391.10	23,061.24	5,207.38	34,963.82	11,158.67	
WA0064		North Power.xls	North Power	Equipment Supply & Installation	2,086.85	646.92	146.08	980.82	313.03	
WA0065 WA0066		Man Dieselr.xls North Power-eur2.xls	Man Diesel North Power	Equipment Supply & Installation Equipment Supply & Installation	214,740.54 899,027.14	66,569.57 278,698.41	15,031.84 62,931.90	100,928.05 422,542.76	32,211.08 134,854.07	
WA0067	\WAs\WA0067	North Power-nzd2.xls	North Power	Equipment Supply & Installation	190,743.67	59,130.54	13,352.06	89,649.53	28,611.55	
WA0068	\WAs\WA0068	Etel.xis	Etel	Equipment Supply & Installation	288,832.00	89,537.92	20,218.24	135,751.04	43,324.80	
WA0069 WA0070	\WAs\WA0069	Epc.xls South Austral.xls	EPC South Austral	Equipment Supply & Installation  Equipment Supply & Installation	50,277.33 76,285,60	15,585.97 23,648.54	3,519.41 5,339.99	23,630.34 35,854.23	7,541.60 11,442.84	
WA0071	\WAs\WA0071	PPM1207.xls	ARDRILEY	Equipment Supply & Installation	146,194.10	45,320.17	5,339.99 10,233.59	68,711.23	21,929.11	
WA0072	\WAs\WA0072	PPM1207.xls	ARDRILEY	Equipment Supply & Installation	33,292.57	10,320.70	2,330.48	15,647.51	4,993.89	
WA0073 WA0074	\WAS\WA0073	Withdrawal form PIA 7TH claim-1stApr10- Bluebird AHLAL.xls	EGIS Bluebird Ah Lal	Consultant Services Equipment Supply & Installation	113,331.48 188,402.16	58,404.67	113,331.48 13,188.15	88,549.01	28,260.32	6,090.52 75,160.43
WA0075	\WAs\WA0075	Man Dieselr.xls	Man Diesel	Equipment Supply & Installation	214,740.54	66,569.57	15,031.84	100,928.05	32,211.08	, 5, 255.43
WA0076	\WAs\WA0076	PPM1207-SAT.xls	ARDRILEY	Equipment Supply & Installation	165,718,29	51,372.67	11,600.28	77,887.59	24,857.74	
WA0077 WA0078		PPM1207-usd.xls South Austral.xls	ARDRILEY South Austral	Equipment Supply & Installation Equipment Supply & Installation	327,305.83 136,455.60	101,464.81 42,301.24	22,911.41 9,551.89	153,833.74 64,134.13	49,095.87 20,468.34	
WA0079	\WAs\WA0079	Epc.xls	EPC	Consultant Services	92,760.14	28,755.64	6,493.21	43,597.26	13,914.02	
WA0080	\WAs\WA0080	Tenix-SAMPSEP0202B-Adv-nzd.xls	Tenix	Equipment Supply & Installation	47, 185.20	14,627.41	3,302.96	22,177.04	7,077.78	
WA0081 WA0082		North Power-eur3.xls North Power-nzd3.xls	North Power North Power	Equipment Supply & Installation Equipment Supply & Installation	110,610.81 307,666.02	34,289.35 95,376,46	7,742.76 21,536.62	51,987.08 144,603.03	16,591.62 46,149.90	
WA0083	\WAs\WA0083	North Power_st2.xls	North Power	Equipment Supply & Installation Equipment Supply & Installation	4,149.29	1,286.28	290.45	1.950.17	622.39	
WA0084	\WAs\WA0084	South Austral.xls	South Austral	Equipment Supply & Installation	118,489.50	36,731.75	8,294.27	55,690.07	17,773.43	
WA0085 WA0086		PPM1207-SAT.xIs PPM1207-usd.xIs	ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	157,879.65 35,920.58	48,942.69 11,135.38	11,051.58 2,514.44	74,203.43 16,882.67	23,681.95 5,388.09	
WA0086	\WAs\WA0086	all electrical SAT.xls	All Electrical	Equipment Supply & Installation Equipment Supply & Installation	45,091.39	13,978.33	3,156.40	21,192.95	6,763.71	
WA0088	\WAs\WA0088	South Austral.xls	South Austral	Equipment Supply & Installation	382,439.50	118,556.25	26,770.77	179,746.57	57,365.93	
WA0089 WA0090	\WA=\WA0089	Bluebird AHLAL.xls	Bluebird Ah Lal	Equipment Supply & Installation	93,568.17 510,955.00	29,006.13 158,396.05	6,549.77	43,977.04	14,035.23 76,643.25	
WA0090 WA0091	\WAS\WA0090	South Austral.xls PPM1207-SAT.xls	South Austral ARDRILEY	Equipment Supply & Installation Equipment Supply & Installation	510,955.00 52,682.48	16,331.57	35,766.85 3,687.77	240,148.85 24,760.77	76,643.25 7,902.37	
WA0092	\WAs\WA0092	PPM1207-usd.xls	ARDRILEY	Equipment Supply & Installation	18,625.94	5,774.04	1,303.82	8,754.19	2,793.89	
WA0093	\WAs\WA0093	SIIva SAM-PSEP-03-01-CLAIM 1.xls	Silva Transport	Equip supp&Install & Civil Works	94,406.39	29,265.98	6,608.45	44,371.00	14,160.96	
WA0094 WA0095		Silva SAM-PSEP-12-02-CLAIM 1.xls North Power-eur4.xls	Silva Transport North Power	Equip supp&Install & Civil Works Equipment Supply & Installation	104,073.18 80,988.35	32,262.69 25,106.39	7,285.12 5,669.18	48,914.39 38,064.52	15,610.98 12,148.25	
WA0096	\WAs\WA0096	North Power-nzd4.xls	North Power	Equipment Supply & Installation Equipment Supply & Installation	87,885.81	27,244.60	6,152.01	41,306.33	13,182.87	
WA0097	\WAs\WA0097	North Power_st3.xls	North Power	Equipment Supply & Installation	1,675.68	519.46	117.30	787.57	251.35	
			TOTAL WITHDRA	WAL APPLICATIONS AS OF	12,156,892.57	3,371,921.71	2,041,127.45	5,112,268.40	1,631,575.02	171,537.27
			DENANTHUNG DRO	DIECT FUNDS AS OF 30TH SI	87,843,107.43	23,238,078.29	13,348,872.55	32,887,731.60	6,368,424.98	11,828,462.73

Appendix 13 - Withdrawal Applications by Contract as of June 30, 2011

				TOTAL		LOANS			GOVT CAPITAL	COUNTERPART	TOTAL LOANS+	TOTAL	Remain	der
	PROJECT	PAYEE	CONTRACT NO.	DISBURSEMENT	ADB Loan	ADB Grant	JICA	TOTAL	AUSAID	EPC	GOVT CAPITAL+	AWARDS	(Varian	ce)
	Exchar	nge Rate (29/12/2010)	2.4044	SAT\$				LOANS			EPC C/PART	SAT	\$	%
	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G	COLUMN H	COLUMNI	COLUMN J	COLUMN K	COLUMN L	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		
	TOTAL ESTIMATED PROJECT FUNDS		SAT\$	\$211,587,200	\$63,981,084	\$37,003,716	\$91,367,200	\$192,352,000	\$19,235,200	\$28,852,800	\$240,440,000	\$5,241,592		
1	SINGLE AND THREE PHASE PREPAYMENT METERS:	Arthur D. Riley & Co. Ltd.	PPM1207	\$11,792,007	\$3,655,522	\$825,441	\$5,542,243	\$10,023,206	\$1,768,801	ģ -	\$11,792,007	\$15,139,803	\$3,347,795	22%
2		Digsilent Pacific Pty	111112207		y o j o o o j o c	φ <b>υ</b> 20/112	φο/ο 12/2 IO	<b>VIO/025/200</b>	,	Ť	,	<b>Q20/203/000</b>	<i>γογο γι σο</i>	22.7
_	POWER SYSTEM PLANNING SOFTWARE:	Ltd	SAM-PSEP-06	\$134,810	\$41,791	\$9,437	\$63,361	\$114,589	\$20,222	\$ -	\$134,810	\$136,126	\$1,316	1%
3	STREAM FLOW GAUGING EQUIPMENT:	NIWA	SAM-PSEP-04	\$145,397	\$45,073	\$10,178	\$68,337	\$123,588	\$21,810	\$ -	\$145,397	\$163,988	\$18,591	11%
4	HV TEST EQUIPMENT :	Electrotest Ltd.	SAM-PSEP-05	\$163,443	\$50,667	\$11,441	\$76,818	\$138,927	\$24,516	\$ -	\$163,443	\$153,341	(\$10,102)	-7%
5	EGIS BCEOM IMPLEMENTATION CONSTULTANTS:	EGIS BCEOM International	CON0508	\$4,004,841		\$4,004,841		\$4,004,841		\$184,659	\$4,189,500	\$7,105,010	\$2,915,510	41%
6	EPC REIMBURSEMENTS:		CONUSCO	\$1,001,012		ψησσησ4 <u>1</u>		91,001,012		Ģ104)003	γ1/203/300	ψ1/100/010	\$ -	4270
	5.1 A. PROJECT MANAGER	EPC	CON0108	\$140,851		\$140,851		\$140,851		\$249,338	\$390,189	\$612,000	\$221,811	36%
	5.2 B. 22 KV OVERHEAD UPGRADING	EPC	SAM-PSEP-09	\$991,727	\$307,435	\$69,421	\$466,112	\$842,968	\$148,759	\$ -	\$991,727	\$991,727	\$0	0%
	C. UPGRADING OF SUPRIMA VENDING MACHINES:	EPC		\$244,218	\$75,708	\$17,095	\$114,782	\$207,585	\$36,633	\$ -	\$244,218	\$ -	(\$244,218)	#DIV/0!
7	UPGRADING HOSPITAL FEEDER STAGE 1, ALAOA DIST. LINE &													
	ASAU 22KV RECONDUCTORING:												\$ -	
	7.1 TRANSFORMERS	Etel Limited	SAM-PSEP-02/01-D	\$543,527	\$168,493	\$38,047	\$255,458	\$461,998	\$81,529	\$ -	\$543,527	\$571,118	\$27,591	5%
	7.2 CABLES & CONDUCTORS	Ltd.	SAM-PSEP-02/01-C	\$683,914	\$212,013	\$47,874	\$321,439	\$581,327	\$102,587	\$ -	\$683,914	\$684,687	\$773	0%
	7,3 POLES & CROSSARMS	Bluebird/Ahlal JV	SAM-PSEP-02/01-B	\$88,804	\$27,529	\$6,216	\$41,738	\$75,483	\$13,321	\$ -	\$88,804	\$102,124	\$13,321	13%
	7.4 SUPPLY OF GALVANISED LINE HARDWARE AND INSULATORS	Ltd.	SAM-PSEP-02/01-A	\$2,743,428	\$850,463	\$192,040	\$1,289,411	\$2,331,914	\$411,514	\$ -	\$2,743,428	\$154,689	(\$2,588,740)	-1674%
	7.5 PROCUREMENT OF WORKS & RELATED SERVICES	Bluebird/Ahlal JV	SAM-PSEP-02/02-A	\$491,223	\$152,279	\$34,386	\$230,875	\$417,540	\$73,683	\$101,680	\$592,903	\$154,690	(\$438,214)	-283%
8	REFURBISHMENT OF ALAOA HYDRO POWER STATION	Tenix New Zealand	SAM-PSEP-03	\$657,916	\$203,954	\$46,054	\$309,221	\$559,229	\$98,687	\$ -	\$657,916	\$3,432,945	\$2,775,029	81%

9	HOSPITAL FEEDER STAGE 2 & 22KV UPGRADING:													
	9.1 SUPPLY OF MATERIALS	Etel Limited	SAM-PSEP-09/01-A	\$768,178	\$238,135	\$53,772	\$361,043	\$652,951	\$115,227	\$ -	\$768,178	\$768,178	\$0	0%
	9,2 SUPPLY OF MATERIALS	Ltd.	SAM-PSEP-09/01-B	\$1,251,531	\$387,975	\$87,607	\$588,220	\$1,063,801	\$187,730	\$ -	\$1,251,531	\$4,625,858	\$3,374,327	73%
10	REFURBISHMENT OF TAELEFAGA, LALOMAUGA, SAMASONI &													
	TANUGAMANONO SWITCHGEARS:	Northpower Ltd.	SAM-PSEP-07	\$4,730,718	\$1,466,523	\$331,150	\$2,223,438	\$4,021,110	\$709,608	\$ -	\$4,730,718	\$5,390,576	\$659,858	12%
11	REFURBISHMENT OF TANUGAMANONO GENERATORS 5A ANI	) Man Diesel &												
	9A:	Turbo Australia	SAM-PSEP-08	\$1,138,081	\$352,805	\$79,666	\$534,898	\$967,369	\$170,712	\$ -	\$1,138,081	\$2,855,377	\$1,717,296	60%
12	CONSTRUCTION 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		(\$125,163)	#DIV/0!
13	REFURBISHMENT OF ALAOA HYDRO POWER STATION	Company	SAM-PSEP-03/01	\$272,636	\$84,517	\$19,085	\$128,139	\$231,741	\$40,895	\$41,018	\$313,654			
14	FIAGA ACCESS ROAD AND FENCING	Company	SAM-PSEP-12/02-A&C	\$300,521	\$93,162	\$21,036	\$141,245	\$255,443	\$45,078	\$45,164	\$345,685			
15	FIAGA DIESEL POWER STATION	Bluebird /Mitsubishi/Woods	SAM-PSEP-12/03	\$14,079,945	\$4,364,783	\$985,596	\$6,617,574	\$11,967,953	\$2,111,992	\$ -	\$14,079,945			
16	FIAGA SITE LEVELING	PPG Engineering	SAM-PSEP-12/02-B	\$70,324										
17	ELECTRICAL DUCTING-VAITELE ROAD WIDENING	Ott Transport	SAM-PSEP-10/01	\$325,682										
								\$ -	\$ -					
	TOTAL DISBURSEMENTS AS AT 30TH NOVEMBER 2010		SAT\$	\$45,888,887	\$12,817,629	\$7,039,995	\$19,433,179	\$39,290,803	\$6,202,078	\$621,859	\$46,114,740	\$24,210,886	(\$21,903,854)	

INTEREST DURING CONSTRUCTION (IDC):	interest rate											
Interest Due	6.50%		\$833,145.86	\$457,599.68	\$1,263,156.63	\$2,553,902.18						
less Interest paid			(\$114,942.65)	(\$63,131.46)	(\$174,267.89)	(\$352,342.00)		\$352,342.00	\$352,342.00	\$352,342.00	\$ -	0%
Total Interest Outstanding as at 30th November 2010			\$718,203.22	\$394,468.21	\$1,088,888.75	\$2,201,560.18			\$ -	\$2,201,560.18	(\$2,201,560.18)	-1009
TOTAL DISBURSEMENTS + IDC	SAT\$	\$45,888,887	\$13,535,832	\$7,434,463	\$20,522,068	\$41,492,363	\$6,202,078	\$974,201	\$46,467,082	\$26,764,788	\$19,702,294	
% of funds disbursed as at 30th November 2010		22%	21%	20%	22%	22%	32%	3%	19%			
TAXES AND DUTIES												
(GOVERNMENT CONTRIBUTION - MOF)								\$3,845,254.17	\$3,845,254.17	\$5,241,592	(\$1,396,337.83)	-27%
TOTAL DISBURSEMENTS + IDC + TAXES & DUTIES	SAT\$	\$ -	\$13,535,832	\$7,434,463	\$20,522,068	\$41,492,363	\$6,202,078	\$4,819,455	\$50,312,336	\$32,006,380	\$18,305,956	
% of funds disbursed as at 30th November 2010		0%	21%	20%	22%	22%	32%	17%	21%			
Remaining Balance as at 30th November 2010	SAT\$	\$165,698,313	\$50,445,252	\$29,569,253	\$70,845,132	\$150,859,637	\$13,033,122	\$24,033,345	\$190,127,664			
_												
Remaining Balance as at 30th November 2010	USD\$	\$68,914,620	\$20,980,391	\$12,297,976	\$29,464,786	\$62,743,153	\$5,420,530	\$9,995,569	\$79,074,889			
% of funds remaining as at 30thNovember 2010	%	78%	79%	80%	78%	78%	68%	83%	79%			

## **Appendix 14 - Withdrawal Applications Disbursement Advice to date**

0001 Elect 0002 Elect 0003 Digsi	ctric Pow	ver Corpora	Curr WST	Loan 23 Amount	68-ADB Value date	G-008 Amount	7-ADB Value Date		-AusAid			232/SAM-P1				Exchange	SAT	USD
0002 Elect	ctric Pow	·	wst				value Date	Amount	Value Date	Amount	Date of Disb	USD Equiv	JPY Equiv	Curr	Total	Rate	Equivalent	Equivalent
0002 Elect	ctric Pow	·				103,634.15	6/08/2008						1	wst	103,634.15	1	WST 103,634.15 2.5	
0003 Digsi			USD			266,402.33	21/08/2008							USD	266,402,33	2.5887	WST 689,635.71 2.5	
		cific Pty Ltd	AUD	18,619.38	27/01/2009	4,204.38	27/01/2009	9,009.38	27/01/2009	28.229.36	20/02/2009	1/ 18.420.05	1,718,038.00	AUD	60,062.50	2.0352	WST 122,239.20 2.5	
	ctrotest I	Ltd.	NZD	4,796.94	11/02/2009	1,083.18	11/02/2009	2,321.10	11/02/2009	7,272.78	27/02/2009	3/ 3,841.06	375,348.00	NZD	15,474.00	1.6527	WST 25,573.73 2.5	
<b>0007</b> Arthu		ley & Co. L	USD	80,200.12	15/01/2009	18,109.71	15/01/2009	38,806.51	15/01/2009	121,593.74	27/02/2009	121,593.74	11,882,140.00	USD	258,710.08	2.5887	WST 669,722.78 2.5	
		ley & Co. L		256,033.60	2/02/2009	57,814.04	2/02/2009	123,887.23	2/02/2009	388,179.98	24/02/2009	<sup>2/</sup> 127,377.52	11,998,643.00	SAT	825,914.85	1	WST 825,914.85 2.5	387 USD 319,050.91
		ley & Co. L		34,360.05	15/01/2009	7,758.72	2/02/2009	16,625.83	2/02/2009	52,094.27	27/02/2009	52,094.27	5,090,652.00	USD	110,838.87	2.5887	WST 286,928.58 2.5	
<b>0010</b> Arthu	hur D. Ri	ley & Co. L	USD	5,583.10	15/01/2009	1,260.70	15/01/2009	2,701.50	15/01/2009	8,464.70	20/02/2009	1/ 8,464.70	789,502.00	USD	18,010.00	2.5887	WST 46,622.49 2.5	387 USD 18,010.27
	tional											4/						
0011 Inst.			NZD	24,776.37	27/01/2009	5,594.66	27/01/2009	11,988.57	27/01/2009	37,564.18	20/02/2009	1/ 19,698.34	1,837,264.00		79,923.78	1.6527	WST 132,089.23 2.5	
		ley & Co. L		43,010.59	2/02/2009	9,712.07	2/02/2009	20,811.58	2/02/2009	65,209.61	24/02/2009	21,397.90	2,015,629.00		138,743.85	1	WST 138,743.85 2.5	387 USD 53,596.75
<b>0013</b> Arthu	hur D. R		USD USD	45,924.57 45,924.35	25/02/2009	10,370.06 10,370.01	25/02/2009	22,221.57 22,221.46	25/02/2009	69,627.58 69,627.23	3/03/2009	69,627.23	6,879,866.00	USD	148,143.78 148,143.05	2.5887	WST 383,497.91 2.5	387 USD 148,145.24
<b>0014</b> Arthu	hur D. Ri	ley & Co. L	SAT	87,801.77	26/02/2009	19,826.21	26/02/2009	42,484.73	26/02/2009	133,118.81	27/02/2009	40,635.84	3,970,934.00	SAT	283,231.52	1	WST 283,231.52 2.5	387 USD 109,412.34
0015 South	uth Pacifi	ic Exports	AUD	18,686.04	23/03/2009	4,219.43	23/03/2009	9,041.63	23/03/2009	28,330.44	25/03/2009	5/ 20,239.98	1,942,051.00	AUD	60,277.54	2.0352	WST 122,673.95 2.5	387 USD 47,388.95
<b>0016</b> Arthu	hur D. Ri	ley & Co. L	USD	13,548.45	4/03/2009	3,059.33	4/03/2009	6,555.70	4/03/2009	20,541.19	13/03/2009	20,541.19	2,048,367.00	USD	43,704.67	2.5887	WST 113,138.28 2.5	387 USD 43,705.32
<b>0017</b> Arthu	l hur D. Ri	ley & Co. L	SAT	69,914.54	9/03/2009	15,787.16	9/03/2009	33,829.62	9/03/2009	105,999.47	13/03/2009	4/ 31,952.91	3,186,344.00	SAT	225,530.79	1	WST 225,530.79 2.5	387 USD 87,122.54
0018 EGIS	IS BCEC	OM Internat	USD			154,938.01	22/04/2009							USD	154,938.01	2.5887	WST 401,088.03 2.5	387 USD 154,940.30
<b>0019</b> Arthu	hur D. Ri	ley & Co. L	USD	3,863.93	21/04/2009	872.50	21/04/2009	1,869.65	21/04/2009	5,858.22	1/05/2009	5,858.22	571,527.00	USD	12,464.30	2.5887	WST 32,266.33 2.5	387 USD 12,464.48
<b>0020</b> Arthu	l hur D. Ri	ley & Co. L	SAT	74,542.63	23/04/2009	16,832.21	23/04/2009	36,069.02	23/04/2009	113,016.25	1/05/2009	<sup>6/</sup> 39,838.35	3,886,629.00	SAT	240,460.11	1	WST 240,460.11 2.5	387 USD 92,889.74
<b>0021</b> Arthu	hur D. Ri	ley & Co. L	USD	38,749.89	22/04/2009	8,749.97	22/04/2009	18,749.95	22/04/2009	58,749.83	15/05/2009	58,749.83	5,692,271.00	USD	124,999.64	2.5887	WST 323,586.57 2.5	387 USD 125,001.49
0022 EGIS	IS BCEC	OM Internat	USD			98,145.58	8/05/2009							USD	98,145.58	2.5887	WST 254,069.46 2.5	387 USD 98,147.03
0023															-			
0024															-			
0025															-			
																	WST 5,420,647.52	USD 2,093,996.14
			,		ES 30/06/2009							SD payt-A0010- on 20/0	02/09		USD1=JPY93.27			2,033,330.14
				1 USD 1 AUD	2.5887 2.0352	2.7503 2.2170					on ADB book rate or on JICA'S rate for U	n 24/02/09 SD payt-A0007- on 27/0	02/09		USD1=JPY94.1974 USD1=JPY97.72	195		
				1 NZD 1 FJD	1.6527 1.2369	1.7734 1.3699					on JICA'S rate for U	SD payt-A0016- on 13/0	03/09		USD1=JPY99.72 USD1=JPY95.9512	140		
				1 170	1.2309	1.3099						n 25/03/09 SD payt-A0019- on 1/05	5/09		USD1=JPY95.9512 USD1=JPY97.56	:40		
									5/									