

QUARTERLY PROGRESS REPORT¹

First Quarter 2008



¹ This report is based on the PIGGAREP 2008 work plan and budget that was agreed to at the Inception Workshop of November 2007 and subsequently endorsed by the Project Steering Committee Meeting of 18 March 2008.

- 1. Country:** Cook Islands, Fiji, Kiribati, Nauru, Niue, Papua New Guinea, Samoa, Solomon Island, Tonga, Tuvalu and Vanuatu
- 2. UNDP Award ID:** 00044633
- 3. Project Title:** Pacific Islands Greenhouse Gas Abatement through Renewable Energy Project (PIGGAREP)
- 4. Implementing Partner:** Secretariat of the Pacific Regional Environment Programme (SPREP)
- 5. GEF Implementing Agency:** United Nations Development Programme (UNDP)
- 6. Period Covered:** 1st January – 31st March 2008

7. Summary of Overall Project Progress:

The general progress during the quarter was slow but satisfactory. The operationalisation of the overall project management structure took another step forward. The Project Steering Committee (PSC) became functional. Even though the PSC is behind schedule in endorsing progress reports and work plans before they are finalized, the planned PSC for 15 April 2008 will bring this key role of the PSC up to date and fully functional, as designed.

The PSC endorsed the Project Activity Summary (PAS) template and process and endorsed 9 project activities in PNG, Tonga, Vanuatu, Nauru, Tuvalu and one regional intervention. PAS were drafted during the quarter and there is a better appreciation by the project stakeholders of PIGGAREP and how it is managed and function.

8. Specific Outputs/Results Achieved (As per quarter work-plan):

The major outputs/results achieved during the quarter were the following:

The Project Steering Committee (PSC) was operationalised and had its first meeting on 18th March 2008.

The Project Activity Summary (PAS) process was operationalised where a PAS template was adopted by the PSC and it is now mandatory for project proponents to complete the PAS and thus provide more details about the proposed activity, in particular its budget, barrier removal and productive utilisation of renewable energy (PURE) details prior to submission to the PSC for review and endorsement.

Twenty (20) PAS were drafted during the quarter. This represents 59% of the number of activities that are in the 1 QTR work plan, i.e. 59% of the 1 QTR work plan activities were converted into PAS during the quarter.

The use of the CROP Energy Working Group (EWG) for coordinating PIGGAREP with regional activities (as compared to having a separate Project Advisory Committee as in the PIREP and PIEPSAP) was also operationalised through the participation of the Project Manager in a CROP EWG meeting in late February 2008.

One project activity was conducted and completed during the quarter. This is Tuvalu's TV-4: Support to Tuvalu Electricity Corporation's (TEC's) outer island grid connected renewable energy projects. The project involved the installation of US\$412,000 solar PV grid connected system as its co-finance. PIGGAREP supported the on-the-job training component of the project where engineers from the TEC and from private sector were trained on how to monitor and maintain the system.

PIGGAREP continues to be well publicized through the effort of the SPREP Publications and Media Section.

These are covered in more details in Table 1 below.

TABLE 1: REPORT ON 1 QTR ACTIVITIES BY KEY PROJECT OUTCOME

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 1: Improved knowledge about RE resources potential and increase the number of successful commercial RE applications on the ground			
INDICATOR: At least 10 resource monitoring studies completed by 2010. At least 3 RE projects rehabilitated / upgraded by 2011			
CK-1: Mangaia Power System Upgrade	10,000	A Mangaia Power Network Extension Upgrade Project Feasibility Assessment was conducted in late Feb 2008. Study included a review of documents relating to the power sector on Mangaia, including the Mangaia Power Upgrade 2007 feasibility study carried out by SOPAC Report is expected in April 2008. Consultancy cost is approx. NZ\$20,000	A PAS is yet to be developed.
CK-8: Wind Farm integration study	15,000	Project Proponent (Te Aponga) has been reminded to develop a PAS in order to operationalise this activity.	A PAS is yet to be developed.
FJ-1: Hydro resource assessment in the upper Navua River Areas	500	Co-financing is from the DoE's budget. Further specific details are to be provided in the PAS.	A PAS has been drafted and will be finalised and circulated among the PSC in the 2 QTR 2008.
NA 1/08 - Expanding the Renewable Energy Market in Nauru	80,000	REP-5 activities are used as co-financing. A tariff review study is planned for August 2008	PAS was prepared, finalised and endorsed by PSC 1. Tender for the consultancy in 2

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		(60,000 €) Energy Officer recruited in Nov 2007 (40,000 €) Tender for the 40 kWp grid-connected PV launched. Contract to be awarded by end of April 2008, installation by January 2009 (500,000 €).	QTR 2008.
PN-2: Investigating The Possibility Of Using Coconut Oil As A Substitute Fuel For Diesel Engines	6,148		A PAS is yet to be developed.
PN-3: Rehabilitation of the Bogo School Micro Hydro Power Scheme	2,673	Co-financing is from the Italian-PIC Cooperation Programme (IPCP). Communiqué has been signed, proposal has been developed and submitted.	A PAS has been drafted and will be finalised and circulated among the PSC in the 2 QTR 2008.
PN-4: Solar Photovoltaic Project for the Baiteta Village Aidpost In the Madang LLG, Madang Province	2,774	Co-financing is from the Italian-PIC Cooperation Programme (IPCP). Communiqué has been signed, proposal has been developed and submitted.	A PAS has been drafted and will be finalised and circulated among the PSC in the 2 QTR 2008.
PN-5: Clinical Waster Gasifier Project for Asaro Health Centre in the Eastern Highlands Province	1292		A PAS is yet to be developed.
SA-4: 2.4.1 Coordinate the development of an RE programme with the RDIS	1,000		A PAS is yet to be developed.
SA-11: Hydro data collection programme	30,000	This project will now come under the jurisdiction of the new Project Management Unit (part of the ADB Power Sector Expansion Project) which means a need to integrate the planning and budgeting under different requirements. This will involve a further delay in preparing the PAS. A meeting to discussion a community consultation process for hydro development is planned for 2 nd April 2008.	Initial consultation meeting with UNDP, SPREP and the national coordinator was conducted in the last quarter of 2007. A PAS is yet to be developed.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
SI-12: RE Conservation and Efficiency Programmes	300	Delay due to change in govt in Dec 2007. New govt budget (key co-financing) was tabled in Parliament in March 2008 and awaiting outcome.	A PAS is yet to be developed.
TO-2: Technical evaluation of the solar installations	3,000	Co-financing is from the IPCP. Communiqué has been signed, proposal has been developed and submitted. Tonga's IPCP (as well as Samoa's and Vanuatu's) will be managed through IUCN Oceania.	Have been merged with TO-1 (Joint annual committee meetings) in TO 01/08 - Supporting the technical, financial and institutional designs of the Niuatoputapu and Lofanga Islands Solar Electrification (NALISE) Project. PAS has been endorsed during first PSC meeting. Tender for the consultancy in 2 QTR 2008.
TO-12: Wind resources assessments	2,500		A PAS is yet to be developed.
TO-14: Biofuel feasibility study	10,000		A PAS is yet to be developed.
TV-4: Support to TEC's outer island grid connected renewable energy projects	5,000	Installation of the 40 kW grid connected PV system was completed during the quarter. Project costed approximately USD 412,000.	A PAS was developed and approved by the Project Management Office (PMO). Activity was conducted in January 2008. The project report is yet to be submitted to the PMO.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 2: Expansion of the market for RET applications			
INDICATORS: At least one RET company in 3 PICs by 2012, At least 100 MW of additional RE-based energy systems installed by 2015, 1 million litres of copra oil use as fuel by 2012, 4 feasibility studies completed by 2010 and 2 RE-grid connected projects by 2012			
SI-3: Feasibility study of economic of scale of production/use of coconut oil /bio-fuel as fossil fuel substitute in power generation in rural areas.	4,000	Delay due to change in govt in Dec 2007. New govt budget (key co-financing) was tabled in Parliament in March 2008 and awaiting outcome.	A PAS is yet to be developed.
SI-5: Feasibility study for mini hydropower plants on Rori (Malaita) under Rural Electrification Framework	2,500	Delay due to change in govt in Dec 2007. New govt budget (key co-financing) was tabled in Parliament in March 2008 and	A PAS is yet to be developed.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		awaiting outcome.	
SI-11: Support to investment Development Projects	2,000	Delay due to change in govt in Dec 2007. New govt budget (key co-financing) was tabled in Parliament in March 2008 and awaiting outcome.	A PAS is yet to be developed.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 3: Enhancement of institutional capacity to design and implement RE			
INDICATORS: At least one RE project designed/implemented by local experts in 4 PICs by 2012 At least ten energy offices have established national energy coordination committees, have clear mandates, strategies and action plans by 2012			
FJ-7: Holistic training provided for staff members of the Energy (economics, accounting, policy, management, and other technology related training)	10,000		A PAS is yet to be developed.
NI-4: Capacity Building, NPC/Private Sector	1,000		A PAS is yet to be developed. PMO visit planned for 2 QTR 2008 to provide assistance.
NI-6: Energy Coordinator / AFO	3,750		A PAS is yet to be developed. PMO visit planned for 2 QTR 2008 to provide assistance.
SI-14: Setup of RE Unit	2,000	Delay due to change in govt in Dec 2007. New govt budget (key co-financing) was tabled in Parliament in March 2008 and awaiting outcome.	A PAS is yet to be developed.
TO-1: Joint annual committee meetings	6,000	Co-financing is from the IPCP. Communiqué has been signed, proposal has been developed and submitted	Have been merged with TO-2 (Technical evaluation of the solar installations) in TO 01/08 - Supporting the technical, financial and institutional designs of the Niuatopotapu and Lofanga Islands Solar Electrification (NALISE) Project. PAS has been endorsed during first PSC meeting. Tender for the consultancy in 2 QTR 2008.
TV-6: Training of TEC Outer Islands Supervisors	20,000	Installation of the 40 kW grid connected PV system was	A PAS has been drafted and will be finalised and circulated

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
on RE Technology		completed during the quarter. Project costed approximately USD 412,000.	among the PSC in the 2 QTR 2008.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 4: Improvement of the availability of funding for existing and new RE projects			
INDICATOR: At least US\$100 million of new investments in RE by 2015			
SA17: 1.4.1 (3.4.2) Coordinate the development of an Energy demand and supply database - collection of RE data.	825		A PAS is yet to be developed.
SI-6: RE Electricity Pricing Study	2,500		A PAS is yet to be developed.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 5: Strengthened legal and regulatory structures in the energy and environmental sectors			
INDICATORS: At least 10 PICs have adopted Energy Policies and Action Plans by 2012. 3 PICs with draft Energy Legislations by 2011.			
FJ-8: Review/adopt/enact relevant policies, frameworks, legislations for RET; Enactment of Fiji's Energy Bill	2,500		A PAS is yet to be developed.
NI-7: Develop renewable energy plans and targets for 2010, 2020 and 2050	1,500		A PAS is yet to be developed.
SA-19: 1.2.2 (2.1.4) Develop an Energy Bill - RE component	1,500		A PAS is yet to be developed.
SI-16: Energy Supply/Demand Studies	300		A PAS is yet to be developed.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 6: Increased awareness and knowledge about RE among key stakeholders			
INDICATORS: 500 PICs undertake local training on RE by 2012. Comprehensive annual RE awareness programmes in 10 PICs by 2010			
CK-17: Support to the Committee working on renewable energy standards	750		A PAS is yet to be developed.
FJ-6: Holistic training provided for Energy staff,	5,000		A PAS is yet to be developed.

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
rural communities, village technicians and relevant stakeholders of the Renewable Energy sector			
KI-4: Technical visits to PV-Grid developments in Tuvalu.	10,000	Co-financing is from the IPCP. Communiqué has been signed, proposal has been developed and submitted.	
NA-4: Create an 'Energy and Environment' curriculum for the schools	10,000	REP-5 awareness activities are the co-financing. A consultant visited Nauru in Feb 2008 to start designing the REP-5 awareness activities. Report is expected in 2 QTR 2008.	This activity has been reprioritised and replaced with a wind power feasibility study. A PAS was prepared (NA 01/08), endorsed at the first PSC meeting to be implemented during 2 QTR 2008.
TO-17: RE Awareness Programme	1,500		A PAS is yet to be developed.
RE 01-08: SIS Capacity Building Workshop on Renewable Energy Technology Applications	70,000	USD 50,000 has been secured from the government of Taiwan for this activity.	Will be held in Vanuatu from the 21-25 April 2008

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
IMMEDIATE OBJECTIVES/OUTCOMES 7: Effective Management of the PIGGAREP			
INDICATORS: Project Activities are implemented within budget and on time, in close collaboration with other related and parallel activities in the PICs.			
PMO	53,060	<p>The PMO started the preparatory activities for the SIS capacity building workshop in Vanuatu during 2 QTR.</p> <p>Continued the co-financing discussions with the Renewable Energy and Energy Efficiency Partnership (REEEP) as well as IUCN.</p> <p>The PMO continues to receive technical support from other programmes at SPREP, in particular the Publication and Media Section. PIGGAREP has featured in all the 3 SPREP Monthly Highlights for the quarter. Assistance is also being provided in developing of the PIGGAREP</p>	<p>SPREP management has approved that PIGGAREP will share on a prorata basis the costs of a Project Assistant and a Financial Officer. The Project Assistant will be based at the Pacific Futures Programme while the Financial Officer will be based at the Finance Section.</p> <p>Progress meetings were held with UNDP Samoa on the 24th January, 22nd February and 14th March 2008 respectively. A meeting with UNDP Fiji to exchange notes on co-financing activities was held on February 29th.</p>

1 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		web-page.	

An appreciation of the general progress with each country's progress with its 2008 Work Plan can be seen in Annex 1.

9. Challenges/Issues Encountered

No major challenge was encountered during the quarter. Project stakeholders are beginning to appreciate the PIGGAREP management structure, processes and criteria and are slowly adapting. This was to be expected and equally to expect that project activities will have a slow takeoff and then increase in 2nd, 3rd and 4th quarters. There will be a need to continuously look at the capacity of the PMO to absorb the expected rapid increase in project activities.

There is also the uneasy feeling that project activities are starting to be implemented while the project framework matrix and targets for each PIC and the consolidated regional one are yet to be finalized. UNDP/GEF has stressed that the overall Project Planning Matrix and Annual Target for 2008 should be finalized by the third quarter of 2008 so that these will be the bases for the PIR 2008 reporting.

10. Solutions Applied (to address issues and challenges)

Continue the consultations and dialogue through the PSC in terms of the capacity of the PMO and the importance that each PIC finalise its project framework matrix and annual targets.

11. Recommendations for Future Action/Work Plan Quarter 2/2008

In order to keep the length of this report short, please See QTR 2 column of Annex 1.

12. Project Finance

The total budget for the quarter was USD 230,872. Total expenditures were USD 40,121 and were all PMO expenditures. Total expenses were only 17% of the available budget for the quarter. This is a reflection of the initial slow progress with the implementation of activities on the ground.

The estimated total budget for the next quarter is US\$244,560 and 73% is for country activities while the rest is for the PMO. The financial report for the quarter is attached as Annex 2.

13. Report Prepared By: Solomone Fifita
Project Manager
9th April 2008

**ANNEX 1: TABLE 2: REPORT ON GENERAL PROGRES BY COUNTRY'S 2008
WORK PLAN**

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
CK1	Mangaia Power System Upgrade	Technical	French and Aust govts, SOPAC and MIC	10,000	10,000			20,000	Based around Vergnet Pacific offer to assist in rectifying the problems at Mangaia.
CK4	Public Awareness Campaigns	Awareness	Energy, Media & NGOs			2,500	2,500	5,000	With support from Environment and its Climate Change activities
CK8	Wind Farm integration study	Technical	Energy / TAU	15,000	15,000			30,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
CK11	MAM Wind resource assessment	Technical	Energy, MET & OMIA		5,000	5,000	5,000	15,000	For Mauke, Atiu & Mitiaro
CK13	Exposure visit to the recycling facilities for cooking oil at USP and NZ	Awareness	Peter Marett				5,000	5,000	To address the environment problems relating to the disposal of used cooking oil.
CK16	RE / Green Award Programme for the tourism sector	Awareness	Energy / Tourism				5,000	5,000	
CK17	Support to the Committee working on renewable energy standards	Technical Awareness	Transport / Energy	750	750	750	750	3,000	
	Sub-total Cook Is			25,750	30,750	8,250	18,250	83,000	

General Progress: The general progress with the implementation of the 2008 Work Plan has been rather slow but satisfactory.

Mangaia Wind Power Rehabilitation

At the last quarter of 2007, the company that supplied and installed the Mangaia wind power project (Vergnet Pacific) offered to provide the following assistance:

- VERGNET sends free of charge parts ex-works France to fix the turbines
- VERGNET sends work force to fix the turbines and only charge per diem and airfare
- VERGNET performs another training on this machine, with a special focus on the points and issues mentioned by the Cook Is authorities.

This offer is estimated at US\$150,000 and is currently being considered by the Cook Is authorities. Meanwhile, a Feasibility Assessment of a Mangaia Power Network Extension Upgrade was conducted in late February. Study included a review of documents relating to the power sector on Mangaia, including the Mangaia Power Upgrade 2007 feasibility study carried out by SOPAC. The Study Report is expected in April and this study is estimated at NZ\$20,000.

Pacific-Italy Cooperation Programme (PICP)

Cook Is has signed the cooperation's communiqué late in 2007. Four proposals with a total value of US\$1 million were drafted and submitted in 1 QTR 2008. The proposals include:

- Rehabilitation of Mangaia Wind Power
- Installation and Commissioning of a Grid Connected Hybrid System (Solar PV & Diesel) for Mitiaro
- Development of a National Renewable Energy Plan, 4) Installation and Commissioning of a Grid Connected Hybrid System (Solar PV & Diesel) for Pukapuka/Nassau and
- Installation and Commissioning of a plant that provide for the processing of copra for biofuel on Pukapuka.

PIGGAREP

The Cook Is power utility (Te Aponga) will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Port Vila, Vanuatu on 21 – 25 April 2008. This will assist Te Aponga with its planned wind power and biofuel activities.

No PAS has been drafted for the activities in the 2008 Work Plan.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
FJ1	Hydro resource assessment in one of the potential hydro site	Technical	DoE	500	500	500	500	2,000	This activity involves the installation of a long term monitoring station at a hydro site that has been deemed viable for further developments
FJ4	Strengthen energy statistics in terms of renewable based data (prices, capacity, supply, potential, etc, etc)	Technical	DoE			5,000	5,000	10,000	This is to fund surveys and workshops to be conducted with all relevant RE stakeholders and also the finalization of the Renewable Energy Database
FJ5	Establishment of the Biogas market	Market	DoE			10,000		10,000	This is to fund formulation of a Biogas Implementation Framework, Policies that should govern the implementation of the Biogas Programme
FJ6	Holistic training provided for Energy staff, rural communities, village technicians and relevant stakeholders of the Renewable Energy sector	Market	DoE	5,000	5,000	5,000	5,000	20,000	This involves the training of the rural communities in terms of project management, maintenance of renewable based projects
FJ7	PIGGAREP National Coordinator (salary and other benefits); Project Post for Energy Statistics	Institutional	DoE	10,000	10,000	10,000	10,000	40,000	This involves the training of the Energy staff in areas that are relevant to the development of the Energy Sector such as economics, accounting, policy, management, etc. Such short courses are offered by USP, TPAF, PSC and international institutions
FJ8	Review / adopt / enact relevant policies, frameworks, legislations for RET; Enactment of Fiji's Energy Bill	Policy	DoE	2,500	2,500	2,500	2,500	10,000	This is to fund the review of existing policies and frameworks for the development of renewable energy technologies and the formulation of the Renewable Energy Research, Development Policies and Acts
	Sub-total Fiji			18,000	18,000	33,000	23,000	92,000	

General Progress: The general progress with the 2008 Work Plan has been rather slow at the beginning of the quarter but has picked up some momentum by the end of the quarter.

Govt of Fiji Rural Electrification Programme

DOE's 2008 Business Plan has over forty activities. Of the 40 activities, 15 are renewable energy activities with a total budget of FJD2 million. These are the co-financing activities in Fiji and include the following:

- i) Renewable Energy Database
- ii) Renewable Energy Statistics
- iii) Capacity Building

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
iv)	Solar Home Systems (SHS) Programme								
v)	Somosomo Hydro Project								
vi)	Nabouwalu Hybrid (Wind/Solar) Project								
vii)	Biogas Programme								
viii)	Wind Programme (Survey & Long term monitoring)								
ix)	Hydro Programme (Survey & Long term monitoring)								
x)	Wave Programme (Survey & Long term monitoring)								
xi)	Solar Insolation Programme (Survey & Long term monitoring)								
xii)	Renewable Energy Standards								
xiii)	Compilation of Hydro Potential Report (based on 500 sites already being surveyed)								
xiv)	Hydro Detailed Designing (2 projects per year)								
xv)	RED Infrastructure Framework (Standard Operating Procedures)								
DOE is still awaiting the approval of its budget.									
PICP									
Fiji has signed the cooperation's communiqué and submitted proposals, including 10 biogas digesters. Activities which have been proposed to the Italian government include i) Enactment of Fiji's Energy Bill & review/adoption and re-enactment of relevant policies, frameworks and legislations for RETs, ii) Detailed designing for hydro projects in the Bua (Navakasali/Naruwai), Cakaudrove areas and iii) Detailed designing and construction of hybrid (wind/diesel) project on Gau Island (Vadravadra) - to include maintenance, management, etc.									
PIGGAREP									
Fiji has drafted two PAS – one was for strengthening the Department of Energy's Capacity through a project-paid National Coordinator and a Renewable Energy Statistics Data Entry Clerk. The other was to strengthen the Department's renewable energy effort through merging of FJ-1, FJ-5 and FJ-6 above. The PMO provided comments on these two PAS and by the time of the PSC 1, they were yet to be finalized. Part of the reason for the delay was the need to finalise the Department of Energy's Business Plan for 2008.									
KI3	Technical visits to biofuel developments either in Vanuatu and Majuro or Philippines	Technical Awareness	KCMC, PUB, EPU		10,000			10,000	
KI4	Technical visits to PV-Grid developments in Tuvalu.	Technical Awareness	EPU, SEC & PUB	10,000				10,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
KI5	Consultations on the National Energy Policy and drafting of an Action Plan	Policy	EPU, MELAD, MISA				7,000	7,000	
KI10	Refresher technical training following the EDF 8 OI electrification project.	Technical	SEC			10,000		10,000	
KI12	Feasibility study on PV-grid pilot project at SEC Headquarter.		SEC, EPU, PUB			9,000	9,000	18,000	
KI15	Training component related to the installation of the new RESCO Manager		SEC			17,000		17,000	
KI16	Migrating RESCO Manager to an open source platform.		SEC		6,000	6,000	7,000	19,000	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
KI22	Public awareness campaigns	Awareness	EPU, MELAD & media		500		500	1,000	Awareness raising activities linking RE projects to mitigating potential to climate change, and their benefits to environment and economy
	Sub-total Kiribati			10,000	16,500	42,000	23,500	92,000	

General Progress: The general progress with Kiribati's work plan has been rather slow but still satisfactory.

PICP

Kiribati has signed the communiqué but has not submitted its proposals.

EU EDF 10

The Financing Agreement was signed in 2007 and a consultant has visited Kiribati on a project identification study.

Solar Energy Company

Activities of the Solar Energy Company are part of the co-financing. A contract was signed with Software Factory Limited of Fiji. This contract will include:

1. Correction of minor problems and bugs still existing in RESCO Manager II
2. Programming the logistics module.
3. Programming the first version of RESCO Remote.

UNDP

The UNDP Multi Country Office in Suva is at the final stages of approving a Maintaining Renewable Energy Systems in Kiribati through Technical Training Project for USD 35,000.

PIGGAREP

Seven PAS have been drafted for KI-11, 13, 14, 16, 17 and 23. This reflects a change in the timing for the implementation of Kiribati's activities. For instance KI-11, 13, 14, 17 and 23 were for later years but their PAS were drafted with the intention that they may be implemented this year.

KI-14: Exposure visit to the Tuvalu PV grid-connected project was planned for January 2008 but the PAS was not finalised on time. Replies and revisions to the PAS based on the PMO's comments have been rather slow.

SEC will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Port Vila, Vanuatu on 21 – 25 April 2008.

NA2	Information dissemination	Awareness				2,500	2,500	5,000	
NA3	Awareness raising and public education	Awareness				2,500	2,500	5,000	
NA4	Create an 'Energy and Environment' curriculum for the schools	Institutional Awareness	Energy Efficiency Officer (Utilities) and schools	10,000	10,000	10,000	10,000	40,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
	Sub-total Nauru			10,000	10,000	15,000	15,000	50,000	

General Progress: The general progress with Nauru's co-financing and PIGGAREP activities have been satisfactory

REP-5

- An Energy Officer was recruited in Nov 2007 to implement the actions from REP-5's EE Action Plan for Nauru. Total costs: 40,000 Euro. The position is to be funded until 31st Dec 2009. SOPAC will provide a training attachment to the EO during the 2 QTR of 2008.
- A tariff review is to be carried out following the results of a report funded by the ADB. The results will feed into the implementation of prepayments meters and for general energy planning and renewable energy purposes. Total costs: 60,000 Euro. Review to start in Q3 2008.
- A consultant will visit Nauru during the 2 QTR to look at the awareness activities under REP-5. Since it is most likely that REP-5 will cover the activities in Nauru's 2008 Work Plan, a reprioritisation of Nauru's activities was made. The wind power feasibility study has now been advanced to begin in 2008. The PAS was drafted during the PM mission in early February. PAS will be submitted to the PSC 1.
- A 40 kWp grid connected PV system is to be installed at Nauru College. The PV system is to be maintained by the Utility, and monitored by the Energy Efficiency Officer. Total costs: 500,000 Euro. Tender launched. Contract to be awarded by end of April. Installation by January 2009.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
PICP									
Nauru has signed the communiqué for the PICP. Proposals were developed and submitted. These were for improving water supply which would involve solar water pumps and solar powered computers for schools.									
EDF 10									
Nauru has signed the Financing Agreement for the EDF 10. The consultant doing the project identification study visited Nauru in February 2008.									
Taiwan									
Taiwan will provide 60 stand alone solar systems to Nauru. These are expected to be installed at the community leaders' houses.									
PIGGAREP									
Since it is most likely that REP-5 will cover the activities in Nauru's 2008 Work Plan, a reprioritisation of Nauru's activities was made. The wind power feasibility study has now been advanced to begin in 2008. The PAS was drafted during the PM mission in early February. PAS will be submitted to the PSC 1.									
The Nauru Utility Authority will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Port Vila, Vanuatu on 21 – 25 April 2008.									
NI4	Capacity Building, NPC/Private Sector/	Awareness	NPC	1,000	2,000	1,000	1,000	5,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
NI6	Energy Coordinator / AFO	Institutional	NEAP	3,750	3,750	3,750	3,750	15,000	NPC
NI7	Develop renewable energy plans and targets for 2010, 2020 and 2050	Policy	NEAP	1,500	1,500	1,500	1,500	6,000	GON NZAID AusAID
NI8	Develop/Review fiscal policies to facilitate the achievement of the RE targets / Expansion	Policy	NEAP			3,000	3,000	6,000	NPC/GON
Sub-total Niue				6,250	7,250	9,250	9,250	32,000	
General Progress: The general progress with the co-financing has been satisfactory while the PIGGAREP activities have been slow.									
REP-5									
<ul style="list-style-type: none"> Supply of solar water heaters 240 SWHs are to be supplied to Niue and sold to residents at a discount. To be eligible for the discount, residents must hand in their existing electric water heaters. Total costs: 600,000 Euro. Contractors selected. Contract to be signed by end of March									
<ul style="list-style-type: none"> Grid-connected PV system A grid connected PV system is to be installed on a public building. Capacity of the system is to be 35 – 55 kWp. Total costs: 400,000 Euro. Forecast published, contract to be signed by end of May, installation to be completed by January 2009.									
<ul style="list-style-type: none"> Awareness Raising Awareness raising to be carried out in conjunction with the SWH project. Total costs: To be confirmed. Activities has begun and will continue throughout 2008 and 2009.									
EDF 10 Renewable Energy Programme									
The financing agreement was signed in October 2007. The consultant doing the design study visited Niue during the QTR 1.									
PICP									
Niue has signed the Communiqué but no proposals have been submitted.									
PIGGAREP									
No PAS has been drafted.									

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
Niue Power Corporation participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Port Vila, Vanuatu on 21 – 25 April 2008.									
PN1	Buakap Aidpost Solar PV System		ATCDI at PNG University of Technology			4,452		4,452	Have vaccine fridge to treat emergencies, etc
PN2	Investigating The Possibility Of Using Coconut Oil As A Substitute Fuel For Diesel Engines		Department of Mechanical Engineering at PNG University of Technology	6,148				6,148	Identify effect on diesel engines and make improvements. Cheap fuel for engines. Growers will have a market to sell their crop & generate additional income.
PN3	Rehabilitation of the Bogo School Micro Hydro Power Scheme		ATCDI at PNG University of Technology	2,673				2,673	Continue to provide electricity for the Health Centre to continue with provision of improved medical services.
PN4	Solar Photovoltaic Project for the Baiteta Village Aidpost In the Madang LLG, Madang Province		ATCDI at PNG University of Technology	2,774		2,000		4,774	Have vaccine fridge to treat emergencies, reduce long distance travel & decrease health problems.
PN5	Clinical Waster Gasifier Project for Asaro Health Centre in the Eastern Highlands Province		ATCDI at PNG University of Technology	1,292				1,292	Completely burn hospital wastes and minimize environmental pollution
PN6	Renewable Energy Training in the four regions of PNG for Development workers (1. Kokopo - New Guinea Islands, 2. Lae - Momase, 3. Goroka - Highlands and 4. Port Moresby - Southern)		ATCDI at PNG University of Technology				3,000	3,000	Development workers can have basic knowledge to assess projects like micro hydro & solar power
PN7	Exposure visit / training attachments visit to (1) CASE in Perth WA, Australia, (2) RPC in Nimbin, Qld, Australia		ATCDI at PNG University of Technology				5,000	5,000	Improved performance by staff with improved design of projects & local trainees to benefit greatly.
PN11	PIGGAREP - PNGSEL - Bismark Energy Ltd and New Guinea Gold Collaboration on Geothermal Energy		PNGSEL				70,000	70,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
Sub-total PNG				12,887	-	6,452	78,000	97,339	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		

General Progress: The general progress with the PIGGAREP activities has been very satisfactory. The general progress with the co-financing has been

Govt. of Italy and PIC Cooperation Programme – Garaio – Any update on these?

The communiqué has been signed and 8 proposals have been drafted and submitted. The PNG University of Technologies is taking the lead in developing proposals to be funded by the Italian government. They include the following:

1. Baiteta solar PV project (Madang Province)
ATCDI has got K6,000.00 (US\$1, 968). ATCDI will submit a proposal to the Italian to cover the Solar modules, batteries, regulator, cables, light fittings, cables, battery enclosure, module
2. The Biodiesel project (Unitech, Lae)
ATCDI will submit a proposal to the Italian to cover a Personalized Biodiesel Production System, Diesel Engine for Testing Fuel, Dynamometer plus accessories, Exhaust Gas Analyzer, Engine Performance Analyzer, Wear Particle Analyzer (Model 56), Oxygen Bomb Calorimeter and expendable supplies & services (including coconut oil).
3. The Bogo MHP project rehabilitation (Simbu)
ATCDI spent US\$6500 to install in 1993. For this project ATCDI will submit a project proposal to the Italian to cover the following Turbine/generator, uPVC pipes and fitting, cement, timber, angle iron and steel bars.
4. Buakap solar PV project (Huon, Morobe)
This is a new project. A new Aidpost building has been built funded by the Rotary Club). For this project ATCDI will submit a project proposal to the Italian to cover solar modules, batteries, regulator, cables, light fittings, battery enclosure and module security frame.
5. The gasifier project (Asaro, EHP)
The gasifier itself was funded by GEF/SGP with a grant of US\$3929. The gasifier will be transported to site and installed. For this project ATCDI will submit project proposals for co-financing from the Italian.
6. Solar PV and micro hydropower training
The training will be conducted in the four regions. For this project ATCDI will submit a proposal to the Italian to cover the local transport, resource materials, copying & printing of lecture materials, refreshments, Certificates and contingencies.
7. ATCDI staff development
This is a project to develop capacity of ATCDI staff by visiting/attachment to two RE organisations abroad for 2 weeks. Organisations selected are CASE in Perth and Rainbow Power Company (RPC) in Nimbin NSW. For the staff development training ATCDI will submit project proposals for support by the Italian.
8. Bago solar PV project (Pomio, ENB).
This is a new project located in the New Guinea Islands region. For this project ATCDI will submit a project proposal to the Italian to cover Solar modules, batteries, regulator, cables, light fittings, Cables, battery enclosure, module security frame.

Sustainable Energy Ltd – Joseph pls provide a brief update, a short para each, on the progress with the co-financing activities below.

1. PNGSEL is keen to develop rural power supply using straight coconut oil/biodiesel to provide power supply to remote rural communities, where the cost of petroleum diesel is very high. PNGSEL has an initial budget of K1.7 million to start the production of biodiesel and coconut oil for local generation of power supply to remote villages (Pomio Coconut and Biodiesel Rural Electrification Project). Coconuts in these rural areas have been left unattended because of the high cost of transport and a market available locally will promote coconut tree rehabilitation and grow local economies as well as improve education and health programs through the availability of power supply. Our model will include the availability of Micro Finance Banking and communications, including an internet cafe.

PNGSEL is also implementing a trial bio-diesel project at Aroma. Aroma project will trial the use of small scale biofuel production to provide power to 480 people (80 households). Under this model being tested PNG SEL provides a local coconut plantation owner with oil extraction machinery and arranges a purchase agreement of buy straight coconut oil (SCO) at a set price. SCO will be used to power the adjacent villages. A small scale trial of biodiesel production for local vehicles will also be being trailed. Total load is estimated at 144,000kWh, requiring around 50kVA installed capacity. A 13.5kVA genset has also been provided for the plantation.

As this is a trial of a model for small-scale sustainable electrification it would be useful if it could be co-funded as a feasibility study.

A PIGGAREP support in training and exposure of PNGSEL staff in the production of coconut oil and biodiesel for the generation of rural power supply would add value to our rural electrification programs as we will be looking to roll out these programs throughout the country, wherever there is an abundant supply of coconuts.

A sub-section of the above would be the exposure to the technical aspects of processing equipment and the associated advantages and disadvantages of the different types available on the market. Such an exercise would assist greatly in our sourcing of the right equipment and processors from the very beginning instead of half way through the exercise when funding can be a real issue.

2. The other area of interest is in Photovoltaic. We have identified areas where Solar Powered Stations would be the only beneficial option for some rural village settings. The budget for the current project for one of the villages in the Western Province (Mabudawan Solar Power Station Project) is about K7 million Kina for a 300KW solar power station. This exercise is a first for our Engineers and some exposure/training on the design and construction aspects of solar power stations between 10 kW to 300 kW would definitely add value to

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
<p>these projects. Again, we will be looking to construct a number of these projects throughout the country and the high initial capital costs involved does not leave any room for mistakes as mistakes can result in the project being abandoned and a lot of money wasted.</p> <p>3. An agreement has been signed between PNG Sustainable Energy Limited, Bismarck Energy and New Guinea Gold for feasibility studies to be carried out on the potential of a geothermal power station at the Sinivit gold mine in East New Britain. The plan is for Bismarck Energy to construct the geothermal power plant and sell electricity to New Guinea Gold the developer of Sinivit Gold mine.</p> <p>4. Cooperation Agreement between PNG Sustainable Energy Limited (PNG SEL) and New Guinea Ireland Provincial Government (NIPG) is been prepared for signing by January 2008 to pave way for the parties to investigate the rehabilitation of Sohun Micro Hydropower Station and the development of potential hydro and biodiesel resources in New Ireland Province. The investigations would identify, quantify and consolidate the rehabilitation requirements together with other resources and provide options for harnessing and development. Sohun has 231kW generation capacity but current output is only 60-80 kW due to mechanical and low-flow problems. According to previous studies, it is anticipated that a total generation reserve of over 1MW would be developed to support power supply to Namatanai District Headquarter and communities along the peripherals of power generation and transmission routes.</p> <p>PIGGAREP assistance is required in the completion of the rehabilitation study.</p> <p>5. PNGSEL is also interested in investigating the potential for wind power generation in Hula Peninsula. This would aim to cater for the population on the Hula Peninsula, around 11,970 people (1,855 households). Load is estimated at 820kW or 3.5GWh/a. Following a detailed evaluation the aim would be to install around 900kW of wind power and a similar capacity of diesel in a hybrid setup. Hula is expected to be an area of good wind potential based on ground observations and some measurements nearby. Another possibility would be to use larger turbines and interconnect with a nearby 22kV PNG Power line.</p> <p>Assistance is required from PIGGAREP to carry out feasibility study and train local engineers to plan and design wind farms.</p> <p>6. Ormand is a storage hydro in the Eastern side of Central Province. Total installed capacity has been estimated at 5MW for an annual output of 33.8 GWh/a. It has been suggested that it is expandable to 8MW with annual output increasing to 63 GWh/a. The population within range of medium voltage distribution lines is around 39,053 people (6,083 households). This hydro could also be connected to an existing PNG Power 22kV line nearby.</p> <p>Assistance could be co-funding of a feasibility study.</p> <p>7. Kimadan is a 3 stage run of river hydro in the middle of New Ireland Province. Total installed capacity has been estimated at 5.1MW for an annual output of 29.6 GWh/a. The population within range of medium voltage distribution lines is around 30,980 people (6,024 households), while there are some commercial loads including a large Palm Oil plant. The connection of Kavieng town would require around 160km of high voltage lines.</p> <p>Assistance could be co-funding of a feasibility study.</p> <p>PIGGAREP PAS have been developed for all the ACTDI activities for 2008. There was a rescheduling of PNGSEL activities such that the Mabuduwan Solar Power Station Design and Training Project (PN 9) has now been advanced to be implemented in 2008.</p> <p>PNG SEL will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Port Vila, Vanuatu on 21 – 25 April 2008.</p>									
SA1	2.3.1 (3.1.3) - Capacity Building training needs on RETs (ADB)	Technical	Energy Division, energy stakeholders, EPC, Private sector, MWCSO, SWA,		1,000			1,000	
SA2	2.3.2 (3.1.4) - Training programme on RETs (ADB)	Technical	Energy Division, PSC, Energy Stakeholders, SWA, MWCSO, MNREM, RDIS		1,000			1,000	
SA4	2.4.1 Coordinate the development of an RE programme with the RDIS	Technical	RDIS, Energy Division, MNREM, EPC, MAF, SWA	1,000				1,000	
SA5	2.2.4 Establish the Designated National	Technical	Energy Division, MNREM, MWTI,		2,500			2,500	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	Authority (DNA) for CDM activities		MWCSD, EPC, SUNGO, consultants						
SA6	2.2.5 Build capacity in CDM process and implementation	Technical	Energy Division, MNREM, MWTI, MWCSD, EPC, SUNGO, consultants			5,000		5,000	
SA7	2.2.7 Establish a Clean Energy Fund	Technical	Energy Division, MNREM, MWTI, MWCSD, EPC, SUNGO, consultants		2,500			2,500	
SA8	2.2.8 Build capacity in Clean Energy Fund operational processes	Technical	Energy Division, MNREM, MWTI, MWCSD, EPC, SUNGO, consultants			5,000		5,000	
SA9	3.6.1 Consultancy to identify relevant DSM activities	Technical	EPC, Energy Division, MNREM, NUS, consultants				1,000	1,000	
SA10	3.6.2 Develop DSM strategies	Technical	EPC, Energy Division, NEC				1,000	1,000	
SA11	Hydro data collection programme	Technical	EPC, MNREM, Energy Division, Energy Stakeholders	30,000				30,000	EPC
SA13	Assess the practicality of RESCOs in maintaining RE-based energy facilities	Market	Energy Division, EPC, energy stakeholders, private sector, MNREM				10,000	10,000	
SA14	RE and related products Development & promotion annual programme	Market	SAME, Energy stakeholders, private sector, MNREM			10,000		10,000	
SA15	2.4.3 (2.1.2, 5.3.1, 4.3.1) – Conduct of prefeasibility studies on identified projects for 1 potential source identified in 2.1.1	Finance	Energy Division, RDIS, MNREM, MAF, MWCSD, NUS, EPC, SWA, consultants			5,050		5,050	
SA16	2.4.4 (2.1.3) Conduct of full feasibility study on identified projects in 2.1.1	Finance	Energy Division, RDIS, MNREM, MAF, MWCSD, NUS, EPC, SWA, consultants				7,100	7,100	
SA17	1.4.1 (3.4.2) Development of an Energy demand and supply database - collection of RE data.	Finance	Energy Division, Statistics, energy stakeholders, EPC, MNREM, MWTI, MOR, Gas companies, Oil companies	825				825	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
SA18	2.4.2 Develop funding proposals for 2.4.1	Finance	RDIS, Energy division, MNREM, MAF, MWCSO, NUS, EPC, SWA, consultants		1,000	1,025		2,025	
SA19	1.2.2 (2.1.4) Develop an Energy Bill - RE component	Policy & Regulation	Energy Division, energy stakeholders, MNREM, AG, consultants	1,500				1,500	
SA20	Development of standards required to meet GHG emission reduction requirements and use of RE for local manufacture and export productions - trainings dissemination	Policy & Regulation	SAME, private sector, energy stakeholders, MNREM, EPC, MWTI, MWCSO			1,000	1,000	2,000	
SA21	2.2.1 (4.1.4, 4.2.3, 4.4.1, 5.2.1, 5.3.1) National energy awareness campaign day	Info & Awareness	Energy Division, energy stakeholders, MNREM, MAF, MWTI, MESC, RDIS, NUS, EPC, SSC, SAA, STA, Oil companies, gas companies, SUNGO, SAME, COC, MEDIA		10,000			10,000	
	Sub-total Samoa			33,325	18,000	27,075	20,100	98,500	

General Progress: The general progress with the PIGGAREP activities has been slow. The general progress with the co-financing has been

The ADB Power Sector Expansion Project – any update Ed?

The project involves a TA - Preparing the Power Sector Expansion Program - that will (i) develop a comprehensive reform program, including a regulatory framework, that would enable private sector participation and enhance the efficiency in the sector; (ii) develop a program to reform the Electric Power Corporation's (EPC) internal business and management procedures to enhance governance and cost efficiency; and (iii) prepare an investment road map to diversify the country's energy resources, meet future load growth, and reduce the burden of diesel imports.

This TA will then lead to 2 very important initiatives:

The Power Sector Expansion Project will comprise of (i) three investment components under the Electric Power Corporation's (EPC) investment plan, (ii) assistance to project management, and (iii) technical assistance (TA) programs to (a) improve EPC's financial performance; (b) establish effective regulation of the power sector; (c) establish a designated national authority; and (d) establish a clean energy fund. The investment components include two core and 16 candidate investment subprojects, and a project management component which will be implemented from 2008 to 2015. Component A comprises the Hospital feeder upgrading project-Stage 1 which forms part of EPC's underground cabling program for the transmission network to provide protection from cyclones. Component B comprises the supply and installation of pre-payment meters for all consumers by 2012. Component C comprises five generation and eleven transmission candidate subprojects identified under EPC's investment plan. The proposed ADF IX grant of \$18.1 million to the Government will ease the macroeconomic impact of the large financing requirements for the power sector expansion project. A loan in the amount of \$23.9 million is being provided in conjunction with this grant.

A TA to implement Samoa's National Energy Policy. The TA will consist of a:

Component 1- Regulatory Reform in the Power Sector

Component 1 will support the Government's overarching goal for the power sector to provide sustainable and reliable electricity services to all consumers at affordable prices. Component 1 will help establish the regulatory requirements for the power sector, including the drafting of a new electricity act to govern the sector and amendments to the EPC Act (1980), and establishment of a regulatory body and its roles and functions.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
<p><u>Component 2 - Establishment of a Clean Energy Fund</u> Component 2 will contribute to the Government's vision to enhance the quality of life for all Samoans through sustainable energy development. The CEF will promote and facilitate development of clean energy of initiatives for clean energy, environmental improvement, and climate change adaptation.</p> <p><u>Component 3 - Establishment of a Designated National Authority</u> Component 3 will contribute to the Government's vision to enhance the quality of life for all Samoans through sustainable energy development.</p> <p><u>Component 4 - Resident Financial Management Advisor to the Electric Power Corporation</u> The financing needs for the power sector and EPC to meet growing electricity demand places substantial requirements on EPC to improve internal financial management controls, accounting and reporting. As part of EPC's forward looking investment plan and need to improve timeliness of tariff adjustments, EPC will commence preparing 5-year financial projections. There is an opportunity to improve the existing tariff structure and introduce bulk power purchase agreements with large consumers to provide incentives for energy conservation and demand-side managements.</p> <p>The Cluster TA includes the following components: <u>Component 1- Regulatory Reform in the Power Sector.</u> The objectives of Component 1 are to promote good governance, stakeholder participation, and a conducive environment for cost-effective private sector participation and investments.</p> <p><u>Component 2 - Establishment of a Clean Energy Fund.</u> Component 2 will provide assistance to the Government to establish and strengthen the institutional capacity and technical capability of a clean energy fund (CEF) in Samoa. This will complement the activities under the proposed Power Sector Expansion Project and the proposed Component 3 for the Establishment of a Designated National Authority for utilizing the carbon development mechanism (CDM).</p> <p><u>Component 3 - Establishment of a Designated National Authority</u> Component 3 will provide assistance to the Government to establish and strengthen the institutional capacity and technical capability of a designated national authority (DNA) in Samoa to promote clean, indigenous and renewable energy through the use of CDM.</p> <p><u>Component 4 - Resident Financial Management Advisor to the Electric Power Corporation</u> Component 4 will support the Government's overarching goal for the power sector to provide sustainable and reliable electricity services to all consumers at affordable prices by assisting EPC to improve cost effectiveness of power supply. It will support EPC to improve cost-effectiveness of power supply and prepare submissions for timely tariff adjustments to enable the provision of reliable electricity services to all consumers at affordable prices. It will also support energy conservation and demand-side management through the preparation of a new tariff structure and bulk power purchase agreements.</p> <p>PICP MNRE is coordinating this programme, which will be delivered through the IUCN Oceania office in Suva. A USD 600,000 proposal has been developed and submitted. Project is focussing on reducing GHG emission in the transport sector.</p> <p>IUCN has identified a project manager for the programme. IUCN will manage the projects activities in Tonga, Samoa and Vanuatu.</p> <p>Joint PIEPSAP, UNDP and SOPAC Energy Projects – any update Sili'a. The PIEPSAP Project (2004-2008) has assisted Samoa with the following activities: Draft policy statements and strategies produced in September 2005 including renewable energy targets National Energy Policy endorsed by Samoa Cabinet in June 2007 GIS/MIS consultancy for power utility incepted in December 2006 with GIS/MIS system fully operational by 2nd quarter 2007 Cost-shared with UNDP TRAC the Preparatory Phase for the Samoa PV Rural Electrification Programme.</p> <p>Since the PIEPSAP will continue to operate for just another year (up to mid August 2008), discussions of the collaborations between PIEPSAP and PIGGAREP has resulted the suggestion of the following activities to be picked up by PIGGAREP.</p> <p>PIGGAREP's follow-up support to the PIEPSAP's activities will focus on the following activities:</p> <ul style="list-style-type: none"> o 1.Co-operation in developing strategic energy action plan o 2. Follow-up in cooperation with UNDP on the Preparatory Phase for the Samoa PV Rural Electrification Programme including support for the implementation of such PV program o 3. Support for EPC wind energy development including comprehensive feasibility studies (including geotechnical analysis) and identification of funding sources, possibly CDM <p>Furthermore, UNDP, SOPAC, RISOE and the government of Samoa is working on a Upolu wind resource assessment project (US\$32,000). The project will select, install, and operate two (2) wind monitoring stations and after one year with successful minimum data recovery rates analyze the data and assess the wind resource potential on Upolu. The expected main outcome of the Project is to assess the wind resources in Upolu, Samoa.</p> <p>The Government of Samoa through the Electric Power Corporation (EPC) and in cooperation with UNDP and the Danish NGO the Organisation for Sustainable Development have replaced the current diesel generator with photovoltaic (PV) based power systems on Apolima Island. The expected overall outcome is to improve livelihoods through a reliable, effective and environmentally friendly 24-hours power supply for the nine (9) households and one (1) church on Apolima Island including PV based streetlights.</p>									

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
<p>In relation to the above, UNDP Samoa, PIEPSAP and SOPAC have undertaken a preparatory phase for the Samoa Photovoltaic (PV) Electrification Programme. The preparatory phase (US\$47,000) will undertake a household survey of un-electrified households in Samoa; determine the resources available and the technical, economical, financial, and institutional feasibility of carrying out a Samoa Rural Electrification Program based on PV; and prepare a Program Document (i.e. investment plan) for a Samoa PV Rural Electrification Program. The expected outcome of the preparatory phase is a properly formulated and detailed PV based rural electrification program to provide the remaining up to 1,200 non-electrified households in Samoa with 24-hours power.</p> <p>Samoa, UNDP and SOPAC have been working on a CocoGen project, looking at th feasibility of using copra oil for power generation. Following discussions between EPC Management, UNDP and SOPAC representatives on 19 July 2007 the Work Plan and Budget for the EPC CocoGen Phase II has been revised to accommodate suggestions and concerns of the EPC Board. The following version acknowledges that given revised maximum blend mixtures of 5% CNO on the one hand and increased supply cost for diesel may change the economics of the project significantly. Revised scheduling also considers the critical nature of the supply chain. In addition an analysis of various options for institutional arrangements for CNO production now takes precedence over technical design issues. The work plan is based on the assumption that EPC's preferred supplier of new generation equipment for Savaii power station will allow a 5% CNO addition to the diesel fuel without negative consequences for warrantees or operational characteristics of the diesel engines.</p> <p>PIGGAREP There was a move to urgently implement SA-11: Hydro power resources assessment. This project will now come under the jurisdiction of the new Project Management Unit (part of the ADB Power Sector Expansion Project) which means a need to integrate the planning and budgeting under different requirements. This will involve a further delay in preparing the PAS. A meeting to discussion a community consultation process for hydro development is planned for 2nd April.</p> <p>No PAS has been drafted for the 2008 work plan activities.</p>									
SI3	Economic feasibility study of production/use of coconut oil / bio-fuel as fossil fuel substitute in power generation in rural areas.	Study report compiled and forwarded for actioning	MME, Italian Gov't	4,000	4,000			8,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
SI5	Feasibility study for mini hydropower plants on Rori (Malaita) under Rural Electrification Framework	Economically viability established	SIEA, MME, SOPAC	2,500	2,500	2,500		7,500	To kick-start the Rori Mini-hydro scheme
SI6	RE Electricity Pricing Study	RE Pricing Template formulated	MME, SIEA, SOPAC	2,500	2,500	2,500		7,500	High priority. To produce a standardized rural electrification tariff calculation guidelines, and tariff calculation templates that provide pro-forma methods of calculating tariffs using costs based on generation technology, location and other factors, as
SI8	RE surveys and assessments for hydro, wind and solar	Survey Reports	MME,SIEA,SOPAC			2,000	2,000	4,000	There are potential sources and sites on the 7 main islands of the Solomon Is for hydro and almost all populated rural communities on the coastal areas of the islands for solar

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
SI11	Support to investment Development Projects	Financial & Technical	SIG, MME, SIEA, Private Sector	2,000	2,000	2,000	1,000	7,000	
SI12	RE Conservation and Efficiency Programmes	Conservation and efficiency measures in place	MME, SIEA, SIG, SOPAC	300	500	500	200	1,500	
SI14	Setup of RE Unit	TA, Unit in place	SIG, SIEA, (REEEP?)	2,000	2,000	2,000	2,000	8,000	
SI16	Energy Supply/Demand Studies	Study Report	MME, SIEA, (SOPAC?)	300	1,000	1,000	200	2,500	
SI17	Economic feasibility study of production/use of coconut oil /bio-fuel as fossil fuel substitute in power generation in outer islands SIEA power stations.		MME, SIEA, Private or SOPAC		1,000	2,000	2,000	5,000	
SI18	Feasibility study of solar Grid interactive system for National Referral, Lata, Kira Kira, Auki, Malu'u, Gizo, Tulagi and Helena Goldie Hospitals	Study Report presented for proper action	MME, SIEA, Private		2,000	2,000	1,000	5,000	
SI20	Micro Biofuel Enterprise Development	Micro Biofuel development structure	Frelin Enterprise & Fred Conning		2,000	2,000	2,415	6,415	
SI21	Rural Communities Solar PV lightings/water pumping projects feasibility studies and funding	Hardware and then Access to Electricity	MME, SITAFE, Private Solar PV Companies			2,000	2,000	4,000	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
SI22	Solar system grid connect at SITAFE	Demonstration	Choice Electrics, Australia, SITAFE		2,500	2,500	2,500	7,500	
SI24	Technical Support to the SITAFE Renewable energy library centre	Technical/resources materials	Australia (OTEN-NSW TAFE)		2,000			2,000	
SI26	Micro hydropower pre-feasibility study at various sites at Atoifi Hosp., Kounabusu (Kwaio), Manawai (upgrade), Masupa'a, River Side and Rara village, all in Malaita	Power base for rural market outlet / industries	PELENA (Renewable Company)		2,000	2,000	1,000	5,000	
SI27	Biofuel Study & Development	Complement Frelin Enterprise & Fred Conning	Pro Solution, (SOPAC?)		1,000	1,000	1,000	3,000	
	Sub-total Solomon Is			13,600	27,000	26,000	17,315	83,915	

General Progress: The general progress has been slow.

PICP

The communiqué has been signed. Proposals were developed and submitted. The proposals to the Italian government are for the electrification of schools and clinics/area health centres located in the rural areas that have no connection to the national grid right throughout Solomon Islands.

Energy Division's Renewable Energy Activities

There was a recent change of government and the budget has not been passed by parliament.

SIVCE's RE Development Activities – any update from SIVCE.

PIGGAREP

No PAS has been drafted.

SIEA and Willie's Electrical will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Por Vila, Vanuatu on 21 – 25 April 2008.

TO1	Joint annual committee meetings	Institutional	EPU, HSES & NFSES	6,000				6,000	The joint annual meetings should then lead to the establishment of the National Steering Committee
TO2	Technical evaluation of the solar installations	Technical	EPU, HSES & NFSES	3,000				3,000	Ha'apai's, installed in 2002, is to be evaluated next year while Niua's, installed in 2006, will be in Year 2 and both on Year 5.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
TO3	Training of village water committees and island technicians	Awareness	EPU			6,000		6,000	Training is to be part of the JICA solar water pumping project for Niuaotupapu. Also include training for NFF and Ha'apai technicians based on the outcome of the evaluations.
TO09	Training on RE for AMREC	Awareness	EPU & AMREC		5,000			15,000	To cover solar, wind and bio-fuel. To begin early in the project thereby allowing AMREC members to bid for activities in the Italian and EDF 10 projects.
TO11	Energy Legislation Review	Policy	EPU & Crown Law & Consultant				20,000	20,000	A follow-up to the RE Bill. To review existing energy-related legislations and whether they can all be merged into an Energy Bill.
TO12	Wind resources assessments	Technical	EPU	2,500	2,500	2,500	2,500	10,000	To sites will be selected based on the Vergnet wind atlas project which will be completed by Sept 07.
TO14	Biofuel feasibility study	Market	EPU & Waste Mgmt Ltd	10,000	10,000			20,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
TO15	Demonstration of the viability of copra oil for remote islands electrification	Technical Financial	EPU and Island Community				5,000	5,000	To begin after the exposure visit to Vanuatu and other PICs.
TO17	RE Awareness Programme	Awareness	EPU	1,500	1,500	1,500	1,500	6,000	To include production of a RE documentary, establishment of an RE information centre at the EPU and the District Solar Energy Societies, a monthly radio programme and an annual RE award programme.
	Sub-total Tonga			23,000	29,000	10,000	29,000	91,000	

General Progress: The general progress with both the co-financing and PIGGAREP activities have been satisfactory.

PICP

Communique has been signed and proposals have been submitted. Three key activities for the Italian funds are:

1. The provision of improved lighting for the people of Ovaka, Hunga, Lape, Nuapapu, Matamaka, Falevai, Taunga, Otea, Kapa, 'Olo'ua and Ofu in the Vava'u Group. This will involve a total of 1445 people, 289 households, 11 schools, 2 health centres, 12 community halls, 16 churches and 7 retail shops.

2. The provision of improved lighting for a total of 3 villages in the island of Niuaotupapu [Hihifo, Vaipoa and Falehau] and Lofanga Island in the Ha'apai Group. There are 139 households and 430 people at Hihifo, 83 and 300 at Vaipoa, 78 and 290 at Falehau and 50 and 184 at Lofanga. This component will therefore benefit 350 households and 1204 people in total, in addition to 4 schools, 1 health centre, 4 community halls, 8 churches and 5 retail shops.

3. The third component is intended to strengthen the capacities of the District Solar Electricity Society Incorporated (Niuaotupapu, Vava'u and Ha'apai) to effectively manage their photovoltaic projects. There are currently 169 installed systems at Ha'apai and this will increase to 353 with the inclusion of Lofanga. 290 systems are planned to be installed at Niuaotupapu and 289 for Vava'u with Italian funds.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		

Tonga's activities, as well as Samoa's and Vanuatu's will be managed through the IUCN Oceania office in Suva. A project manager has been identified.

The EU EDF 10

Tonga will receive a total of 5.9 million Euro from the European Union's 10th EDF. This is generally for renewable energy for development and sustainable livelihoods. The Financing Agreement is to be signed in November 2007 during the Forum Meeting in Nuku'alofa. The EU will then send a study team to consult Tongan authorities on project activities to be supported. A consultant doing the project identification study visited Tonga during the QTR 1.

PIGGAREP

4 PAS has been drafted. In the process, two activities (TO 1 & TO 2) have been merged and finalised for PSC 1.

EPU will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Por Vila, Vanuatu on 21 – 25 April 2008.

TV3	Dissemination of biogas technology introduced by PIEPSAP	Awareness	Alofa Tuvalu			5,000	5,000	10,000	
TV4	Support to TEC's outer island grid connected renewable energy projects	Technical	TEC	5,000	5,000	5,000	5,000	20,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.
TV5	Study and establishment of a RE Unit at TEC	Institutional	TEC				25,000	25,000	A follow-up to the PIEPSAP-funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV6	Training of TEC Outer Islands Supervisors on RE Technology			20,000				20,000	
TV7	Support implementation of Policy and Strategic Action plan	Policy Institutional	Energy			6,250	6,250	12,500	
	Sub-total Tuvalu			25,000	5,000	16,250	41,250	87,500	

General Progress: The general progress has been very satisfactory with both the co-financing and the PIGGAREP activities.

1) The Tuvalu Grid-connected PV project

Installation has been completed and the project has been commissioned. During the commissioning, an on-the-job training workshop was conducted for Tuvalu technicians and engineers.

The Alofa Tuvalu's Amatuku Project – **any update on their activities**

PICP

Communiqué has been signed and a proposal was developed and submitted. The Tuvalu Photovoltaic Electricity Network Integration Project (TPVENI) is for USD800,000 V systems is expected to bring about a reduction of 184 tonnes of carbon dioxide (CO₂).

TPVENI is designed to deliver the following:

- New Energy Office structure
- Energy Coordinating Committee (ECC) established and terms of reference developed.
- Additional resources secured for the implementation of the Tuvalu
- Training programme for energy staff developed.
- Training conducted.
- Project Officer recruited over the duration of the Italy-Tuvalu Cooperation.
- Training activities and workshops conducted /convened.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
									<ul style="list-style-type: none"> • Scoping mission report with clear directions on how to proceed with the necessary next phases for the PV integration activities. • Tender documents finalized and contract signed. • Equipment delivered to sites. • Grid connected PV systems installed and commissioned. • Monitoring and evaluation report available. • Relevant training /capacity development programme formulated. • Training conducted. <p>PIGGAREP Activities 2 PAS has been drafted. One has been finalized and implemented during the quarter as part of the commissioning of the PV grid-connected installation.</p> <p>TEC will participate in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that will be held at Por Vila, Vanuatu on 21 – 25 April 2008.</p>
VU5	Vanuatu Hydropower Resource Mapping	Market	Energy Unit, Consultant			5,000	5,000	10,000	
VU6	Feasibility Study of the Tasiriki River hydro resource potential	Technical	EU			10,000	10,000	20,000	
VIII1	Review of the Rural Electrification Policy	Policy	Energy Unit, NACCC, SOPAC		6,000	7,000	7,000	20,000	
VU12	Renewable Energy and Energy Efficiency Programmes		Energy Unit, SOPAC, Unelco			2,000		2,000	
VU14	Review of the 2002 Talise Mini Hydro Feasibility Study		Energy Unit, Consultant		9,000	9,000		18,000	
VU16	Study of the viability of changing fishery freezers to run on RE		Fisheries, Consultant			10,000		10,000	
VU17	Community Awareness		VANREPA, local Theatre Group		1,500	1,500		3,000	
VU18	Identification & Promotion of income generation activities		VANREPA, Peace Corps				3,000	3,000	
	Sub-total Vanuatu			0	16,500	44,500	25,000	86,000	

General Progress: The general progress has been satisfactory. Vanuatu did not have any activity planned for the first quarter, however, it has actively drafted a PAS in preparation for the 2 QTR.

The Sarakata Hydro Project – **Ben Update pls**

Sarakata has two 300 kW turbine generators, installed in 1994 and 1995, that supplied 70% of the electricity to Luganville, Santo in 1995. Growth in demand has made it impossible for the hydro generators to meet the peak demand, hence this 3rd phase to install a new 600 kW hydraulic turbine generator. This project will benefit the approx 20,000 residents of Santo.

The Sarakata project is owned by the GoV. The project is managed by the Power Utility (UNELCO). UNELCO pays GoV the equivalent of the price of oil saved from generating from hydro at Sarakata. This money goes to the Sarakata Fund which is specifically used to support other rural electrification projects, solar PV and grid-extension, in Vanuatu.

In preparation for the growing demand for electricity in Luganville, PIGGAREP will support the further assessment of the potential

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		

downstream and the conduct of a feasibility study which will include risks assessment. The support will also include building the general awareness of the surrounding communities about hydro, its benefits, how to avoid potential disasters and how they can help to look after the hydropower project system.

The joint Energy Unit and UNELCO EU ACP Energy Facility-funded projects on bio-fuel

On 17 July 2007, the European Commission approved the final selection of proposals that will benefit from grant co-funding from the 9th European Development Fund. From the entire PICs, Vanuatu was the only country with proposals to be funded from this facility. Three out of the four approved projects were joint Energy Unit-UNELCO projects. These include the provision of renewable energy using locally produced copra oil as biofuel to: (1) 4 villages of North East Malekula island, Malampa Province, (2) 3 villages in Ambae Island, Penama Province, and (3) 2 villages of Vanua Lava island, Torba Province.

At Malampa, the project will bring energy to 660 households, 6 primary schools and one College, 2 dispensaries, in the villages of Lavalsal, Vao, Orap and Wala in the North East of Malekula Island. This will increase the rate of access to energy from 6.8% to 7.8%.

At Ambae, the project will bring energy to 185 households, 1 primary schools, a branch of the University of the South Pacific (USP), 1 hospital and 1 dispensary, in the villages of Saratamata, Lolowai and Longana in East Ambae. This will increase the rate of access to energy from 6.8% to 7.1%.

At Torba, the project will bring electricity to 103 households, 2 primary schools, 1 college, 1 dispensary, in the villages of Sola and Mosine on Vanua Lava Island in the TORBA Province.

PIGGAREP will support these projects with studies to look at the sustainability of UNELCO's copra oil supply line including potential value-added products and the environment impacts of its bio-fuel production and use. This study will also look at potential financial risks to UNELCO's copra oil effort and identify mechanisms which could be used to stabilize copra oil prices. Given UNELCO's 25% RE goal and its current and future RE programmes (as well as others' in Vanuatu), PIGGAREP will support a study of the potential benefits of registering these as CDM projects and building the local capacity to effectively manage CDM projects.

The VANREPA's EU ACP Energy Facility-funded project on wind

The Answer is Blowing in the Wind – Improving access to energy services for the communities of Futuna & Aneityum Islands (Vanuatu) using wind technology is the fourth Vanuatu project to be approved for funding under the EU ACP Energy Facility. The main activities of the project will focus on: i) the installation of wind turbines at key public institutions at communities in Futuna and Aneityum, installation of battery banks with sufficient capacity to enable households to recharge batteries, ii) the establishment of an island focused Renewable Energy Service Cooperative (RESCOop) for the management and maintenance of the systems on both Futuna & Aneityum Islands, iii) the setting up of a billing system for the delivery of energy and the rental of efficient lighting kits and recharge battery 'tokens' to households, aimed at sustaining the RESCOop, iv) the training of selected members on the operation, maintenance, financial management of the installed systems as well as potential energy uses and sustainable energy consumption, and v) the identification and promotion of new opportunities and income-generating activities, training of would-be local entrepreneurs. The final direct beneficiaries are over 1,100 people. Approx. 237 households, 4 schools, several kindergartens, 5 health centres (dispensaries), community governing offices, tourism, fishing and handicraft cooperatives, business centres with access to energy from this project.

PIGGAREP will support VANREPA's wind project in the areas of awareness and the support and identification of income generating opportunities.

PIGGAREP will also provide support to establishing an environment which is conducive to investments on RE in Vanuatu. As such, the Electricity Act will be reviewed to allow private generators to come in and generate RE and sell to the grid. An annual RE and EE programme will be conducted to give due recognition to achievements and innovative ideas in these two areas.

PICP

Vanuatu has proposed the following activities to be funded under this programme:

- the development of human resource(s) on the implementation and management of policies, strategies and action plans; institutional strengthening by encouraging the participation of relevant stakeholders including the involvement of rural women; and energy data collation and analysis. All these areas are consistent with and given prominence in the Vanuatu National Energy Policy framework.
- rehabilitation of solar PV projects on the islands of Santo and Malekula; and (ii) to progress the proposed Talise River hydropower project on the island of Maewo in Penama province
- wind resource assessment programme in the six Provinces of Torba (Sola – Vanua Lava Island, and Gaua Island), Sanma (Port Olry Village – Santo Island), Penama (Ahivo area – Pentecost Island), Malampa (Norsup area – Malekula island) and Tafea (Ipota – Erromango Island), (White grass area – Tanna Island), Shefa (Tongariki island).

AusAID-funded Energy Advisor

AusAID confirmed during the quarter that it will fund a full-time resident Energy Advisor who will be engaged for two years to assist the Energy Unit in undertaking its responsibilities and in building long-term capacity for the delivery of an expanded work program in the power sector. The objective of this technical assistance project is to strengthen the capacity of the Energy Unit within the Ministry of Land, Energy, Environment, Geology, Mines and Water Resources. Support for the position and related activities will be provided by the Governance for

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
Growth (GFG) Program, which is a joint initiative of the Governments of Vanuatu and Australia, funded by AusAID.									
Grand Total for Year 1 Country Activities:				177,812	178,000	237,777	299,665	893,254	
PMO Costs									
Total for PMO				53,060	66,560	53,560	53,266	226,446	
<p>Progress meetings were held with UNDP Samoa on the 24th January, 22nd February and 14th March 2008 respectively. A meeting with UNDP Fiji to exchange notes on co-financing activities was held on February 29th.</p> <p>In-country assistance was provided to Nauru. The PM met up with the Nauru Country Team and finalised the selection of a project coordinator. The 2008 work plan for Nauru was reprioritised and rescheduled and a PAS was drafted and finalised. The PSC endorsed Nauru's PAS for a wind monitoring feasibility study.</p> <p>Based on the Nauru trip, SPREP's Publications and Media section produced a Press Release and partially covered it in the Director of SPREP's monthly Island Business Column. This triggered interviews of the PM by Radio NZ International on 14th February, Samoa TV 3 on 18th February and Radio Australia on the same day.</p> <p>Assisted the Samoa Ministry of Natural Resources and Environment by providing data and ideas on the preparation of the GHG Inventory Section of its Second National Communication.</p> <p>Continuing discussions were held with the REEEP as well as IUCN on utilising their resources through joint activities as co-financing for PIGGAREP.</p> <p>Provided assistance to the EU consultant (Mr Carles Torra) doing the EDF RE programme project identification study.</p> <p>The PMO will conduct RE 01- 08: SIS Capacity Building Workshop on Renewable Energy Technology Applications during the 2 QTR. This activity is jointly funded by Taiwan, REEEP and PIGGAREP.</p> <p>Preliminary the Project Manager's planned missions / movements for the next quarter are as follows:</p> <ul style="list-style-type: none"> i) International Workshop on Financing Village-Level Energy for Development in Asia Pacific, Manila, Philippines: 9-11 April 2008. Fully fund by ADB. ii) SIS Capacity Building Workshop on RE Applications: Port Vila, Vanuatu, 21-25 April 2008. iii) In-country assistance to Niue, 12th – 14th May 2008 iv) Annual Leave, 31 May – 18 June 2008 									
GRAND TOTAL FOR 2008				230,872	244,560	291,337	352,931	1,119,700	