

QUARTERLY PROGRESS REPORT¹

Second 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 April – 30th June 2008

7. Summary of Overall Project Progress:

The general progress during the quarter was more satisfying than the previous quarter in terms of having completed two activities, which have been reported and evaluated. The general progress towards implementing other project activities on the ground have been pleasing with the launching of five requests for proposals for activities in PNG, Nauru, Tonga and Tuvalu. The general progress per PIC can be seen below:



Cook Is

A Project Activity Summary (PAS) was prepared for a *Topographical & Geotechnical Survey* on a possible wind farm site at Rarotonga. This is a joint effort of the power utility (Te Aponga Uira - TAU) and the Energy Office and is a follow-up to earlier wind monitoring and a study conducted by UNDP and the PIEPSAP/SOPAC. The results showed a good wind regime which would allow wind generation at cost of approximately NZ\$ 0.30 per unit (kWh) as compared to TAU's fuel cost which is already NZ\$ 0.44 per unit.

The Asian Development Bank (ADB) is currently preparing an Infrastructure Development Project for the Cook Is and the ADB and the government have agreed to include the energy and power sectors in the preparation of the project. A wind energy project is currently under preparation as part of this technical assistance funded by ADB. The project has also attracted the interest of the European Investment Bank.

At present there are considerable uncertainty with respect to soil conditions and the topography of the selected wind farm site. They need to be removed through a topographical and geotechnical analysis of the site. The results of the survey will enable the ADB team to more accurately calculate the civil engineering cost of the project and thus determine cost benefit ratio and generation cost more accurately.

TAU and the Energy Office will be responsible for the call for proposals. TAU Board has asked for the call for proposals to be deferred until after the landowners meeting scheduled for Thursday 3 July 2008. This study is expected to take place in August.



Fiji

Fiji has prepared 2 PAS for a renewable energy *Data Entry Clerk (DEC)* and *Support the Renewable Energy Sector (Hydro, Biogas) in Fiji*.

The Fiji Department of Energy (DoE) has advertised for the DEC and has received about 200 applications. Short-listing for interview is currently underway. A draft contract between SPREP and the successful candidate has been prepared and forwarded to the DoE. DoE has also been requested to review the PAS to clarify the link between the baseline and incremental activities, as suggested by UNDP-GEF. Similar request has been made of the PAS for the *Support the Renewable Energy Sector (Hydro, Biogas) in Fiji*.



Kiribati

The Solar Energy Company (SEC) has developed a PAS to strengthen the effectiveness of the management of the SEC through supporting the development of a software known as the RESCO Manager. The co-financing activity was to be an UNDP-funded training of trainers. The SEC has requested UNDP to integrate the training of trainers with the RESCO Manager. UNDP has then requested SEC to revised the Project Document and that this new ProDoc would have to go through its project approval process. Once this new ProDoc is approved, SEC will then revise its PAS.



Nauru

The request for proposals for the *Nauru Wind Power Feasibility Study* was launched. The evaluation of the proposals was completed and the contract is ready to be signed pending confirmation of the commitments of the Nauru government to the project. A draft cabinet paper was prepared which the national project coordinator is using to first prepare a brief for the minister whereby the minister will then give direction for the subsequent briefing of the Cabinet.



Niue

No national activity to date. A mission to Niue is planned for July to discuss possible ways of speeding up the implementation of its PIGGAREP work plan.



PNG

Two PAS were developed by the PNG Sustainable Energy Limited (PNSEL). One was on a Geothermal Pre-feasibility Study at Sinivit and the other was for a Feasibility Study of a mini PV grid at Mabuduwan.

After launching the call for proposals for the Sinivit study, PNGSEL has advised in May that after consideration of the issues around developing this project for investment, it believed it is better for this early activity to be carried out by PNGSEL itself. Under these circumstances it wished to withdraw this activity from PIGGAREP but still wish to keep the option of obtaining PIGGAREP funding for a later activity on the Sinivit Project.

The call for proposals for the feasibility study of a mini PV grid at Mabuduwan was completed and evaluated. The PAS for this activity has not clarified the link between the baseline and

incremental activities, as suggested by UNDP-GEF, in particular, a commitment to invest on the project if the study proves feasible. PNGSEL advised that the Board of the PNG Sustainable Development Programme will decide on this in its meeting in early July.



Samoa

April 25th was dedicated as the Samoa National Energy Awareness Day (SNEAD) with activities targeting mostly school children. The theme for this event was “*Energy for Life, Use it Wisely*”. The events during the SNEAD involved speech, poster and renewable energy model competitions among the primary and secondary schools. About 400 students participated in this event plus members of the general public who were mostly part-time participants throughout the event. The report on this event and its evaluation by the PIGGAREP PMO can be viewed at the PIGGAREP web page http://www.sprep.org/climate_change/piggarep.htm



Solomon Is

A draft PAS was received to study the feasibility of a Micro Biofuel Enterprise in the Solomon Is. This PAS was reviewed and assessed and sent back to the Solomon Is. The project proponents have not updated it. The major concern, as is common with some other PAS, is the placement of the incremental activity at the front to be followed by the co-financing activity. This does not follow the incremental / value added logic because if the outcome of the incremental activity is not feasible then the co-financing activity will not take place, resulting in a waste of GEF resources.

The Solomon Is Electricity Authority (SIEA) submitted a draft ToR for a study to establish a template for RE pricing. It was raised with SIEA the importance of ensuring that this study will not be a repetition of what has already been covered in the 2007 PIEPSAP base tariff review and to create the linkage between the two studies. It was also suggested to SIEA that the objective of "designing a template" be extended to cover three areas suggested in the PIEPSAP study:

- ❑ Least cost generation plan to reduce diesel dependence
- ❑ SIEA's technical criteria for the power it will purchase
- ❑ Pricing template or pricing framework or the avoided costs

There has not been any further communications from SIEA on this study.



Tonga

The request for proposals for the review of the Ha’apai Solar Electricity Incorporated was launched during the quarter. The Tonga Energy Planning Unit (EPU) considered the financial proposals to be too high and therefore explored the opportunity of engaging a team of local experts to do the review. This involved using the services of a local teacher whose MSc thesis was based on the HSEI and was assisted by SOPAC with her study. Unfortunately, she declared herself unavailable at the last minute due to her teaching commitments.

Tonga has proposed the rehabilitation of the PV systems installed in 2 islands in the Ha’apai Group that were electrified before the HSEI was established to be funded under the IUCN/Italian programme. The Tonga proposal also included the electrification with solar PV of one island in

the Ha'apai group. Since IUCN would like to conduct a feasibility study of this rehabilitation / new electrification, Tonga has been advised to consider doing the HSEI review and the IUCN study as just one study under the PIGGAREP. The IUCN project manager will visit Tonga early in the third quarter and this joint study will be discussed with the EPU in Tonga.

Tonga also submitted a draft PAS for a wind power feasibility study. This PAS was reviewed and returned to Tonga. Tonga has proposed to the European Union that its priority project in the EDF 10 (approximately 5.9 million Euro) will be wind power. A high level delegation from Tonga will discuss this project with the EU early in the third quarter and the PIGGAREP's value added activity will be revised accordingly.



Tuvalu

The request for proposals for the study of establishing and operationalising a Renewable Energy and Energy Efficiency Unit within the Tuvalu Electricity Corporation was launched during the quarter. The consultancy contract has been signed and the study is expected to begin in July and to be completed by end of August 2008.



Vanuatu

The Vanuatu Energy Unit (EU) submitted a draft PAS to review its rural electrification policy. It was later discovered that AusAID is funding an Energy Advisor for the EU and the role of the advisor will include reviewing the REP.

The EU then developed a PAS for a review of a hydropower study that was conducted at Talise in 2001-2002. Several revisions of the PAS were made pending the receipt of the study report, which is only available in a hard copy. However upon receipt of this report, it was obvious that some bias was given to hydropower, that the study did not look at other electrification options and that it was not a full fledged economic feasibility study. Vanuatu's proposal to the IUCN/Italy was to construct this hydropower project.

It was therefore raised with the EU and IUCN that the ToR be expanded to include other electrification options and for a full technical, economic and environmental assessment to be made of the proposed project. A revised ToR has been sent to the EU and there has not been any further input from Vanuatu since the Acting Principal Energy Planner is fully tied up with other activities. The IUCN project manager will visit Vanuatu in late July and will finalise the ToR with the EU.

Vanuatu's work plan includes community awareness activities for VANREPA. VANREPA however felt it should first develop a training strategy and supportive educational resources for its RE Development Activities. The ToR was drafted by a potential consultant. VANREPA was advised that the draft ToR should reflect its needs and not the capability of the potential consultant. No further developments from VANREPA on finalising the ToR and drafting a PAS.

Regional

Completed conducting a workshop on *Small Islands States Capacity Building Workshop on Renewable Energy Technology Applications* 21-25 April 2008 in Port Vila, Vanuatu. The objectives of the workshop were to:

- ❑ To strengthen the capacity in the SIS to Productively Utilize Renewable Energy (PURE) services from standalone and grid-connected PV, wind and biofuel through the sharing of RE experiences, and
- ❑ To enable SIS to observe and to learn from the biofuel and wind power developments as well as the RE developments in Australia and other PICs

A total of 27 people participated in the workshop and evaluated the workshop as being highly satisfactory. The workshop report can be viewed at the PIGGAREP web page http://www.sprep.org/climate_change/piggarep.htm

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

The Specific Outputs / Results achieved during the quarter, as per the overall PIGGAREP Immediate Objectives / Outcomes and Indicators are covered in Table 1 below:

TABLE 1: REPORT ON 2 QTR ACTIVITIES BY KEY PROJECT OUTCOME

2 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	Continuing from 1 QTR 08 ² . 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	As in 1 QTR 08, a PAS is yet to be developed.

² Throughout this report 1 QTR 08 means First Quarter of 2008, 2 QTR 08 means Second Quarter of 2008 and so on.

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
CK-8: Wind Farm integration study	15,000	The Asian Development Bank (ADB) have agreed to include the energy and power sectors in the preparation of the Cook Island Infrastructure Development Project PPTA COO 40287-01. The Rarotonga wind energy farm is currently under preparation as part of this technical assistance funded by ADB.	A PAS was prepared for the conduct of a topographical and geotechnical survey of the proposed wind farm site. The PAS was endorsed by the PSC. A meeting with the landowners will be held in early July before the call for proposals to conduct the study.
CK-11: MAM Wind resource assessment	5,000	A wind monitoring station on Aitutaki will be shifted to Mitiaro during the 3 QTR 08. Energy Division is paying the transportation and installation cost.	The Energy Unit has indicated that this is a priority activity to follow the Rarotonga topographical and geotechnical study. A PAS will be prepared during the 3 QTR 08.
FJ-1: Hydro resource assessment in the upper Navua River Areas	500	<p>Co-financing is from the DoE's hydro and biogas development budgets.</p> <p><i>Hydro Resource Assessment:</i> Survey of eight hydro sites (Waivaka; Wainawaqa, Nauluvatu, Nacula, Vugalei, Nabalasere, Namalata, Namako).</p> <p>Installation of monitoring station and monitoring of hydro resources for 3 years</p> <p>Detail designing of 2 micro hydro Projects (Buca & Naikorokoro)</p> <p><i>Establishment of Biogas Market:</i> Master Biogas Builder to train the trainers on the construction of digesters.</p>	<p>Activity has been redesignated as <i>Supporting the Renewable Energy Sector (Hydro, Biogas) in Fiji</i>. Did not start in 1 QTR 08 as planned. A PAS was drafted, reviewed by the PMO and UNDP-GEF and endorsed by the PSC.</p> <p>Awaiting DoE to finalise the PAS, including ToRs for the biogas training and construction and the quotes for the hydro monitoring and biogas supplies.</p>
NA 1/08 - Expanding the Renewable Energy Market in Nauru (from solar photovoltaic to include wind power)	80,000	<p>REP-5 activities are used as co-financing. A tariff review study is planned for August 2008 (60,000 €)</p> <p>Energy Officer recruited in Nov 2007 (40,000 €)</p> <p>Tender for the 40 kWp grid-</p>	<p>PAS was prepared, finalised and endorsed by PSC 1.</p> <p>Tender for the wind power feasibility study took place during 2 QTR 2008. Evaluation has been completed and successful bidder has been notified.</p> <p>Signing of the consultancy</p>

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		connected PV launched. Contract to be awarded by end of April 2008, installation by January 2009 (500,000 €).	contract is awaiting the completion of ministerial and cabinet briefings regarding Nauru government's commitments to the project, including making land available for the installations of the monitoring towers.
Supporting the technical design of the Mabudwan Solar Power Station. (Introduced into the work plan in 2008)	25,000	The board of the PNG Sustainable Development Programme will meet early in 3 QTR 08 and will decide on the commitment to fund the hardware component of this project.	The call for proposals and the evaluation of the proposals have been completed. Signing of the contract is awaiting confirmation of the co-financing activity.
PN-2: Investigating The Possibility Of Using Coconut Oil As A Substitute Fuel For Diesel Engines	6,148		Was to have completed 1 QTR 08. 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.	Was to have completed 1 QTR 08. A PAS is yet to be developed.
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.	Was to have completed 1 QTR 08. A PAS is yet to be developed.
PN-5: Clinical Waster Gasifier Project for Asaro Health Centre in the Eastern Highlands Province	1292		Was to have completed 1 QTR 08. A PAS is yet to be developed.
SA-4: 2.4.1 Coordinate the development of an RE programme with the RDIS	1,000		Was to have completed 1 QTR 08. A PAS is yet to be developed.
SI-12: RE Conservation and Efficiency Programmes	300	Energy Office budget for RE activities is to be the co-financing. New govt budget (key co-financing) was tabled in Parliament in March 2008 and still no advice from the Solomon Is on the outcome.	Supposed to start in 1 QTR 08. A PAS is yet to be developed.
SI-22: Solar system grid	2,500		A PAS is yet to be developed.

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
connection at SITAFE			
TO-2: Technical evaluation of the solar installations	9,000	Co-financing is from the IPCP ³ . A project concept to rehabilitate the Mango and Mo'unga'one PV installations and to electrify Lofanga Is with solar PV has been approved by the Italians.	Carryover from 1 QTR 2008. Call for proposals to review the HSEI was made. Through consultations with IUCN and the EPU, this review is to be replaced with a full feasibility study EPU is to prepare a revised PAS.
TO-12: Wind resources assessments	2,500	Tonga's priority in the EDF 10 renewable energy programme is wind power. Tonga does not agree with the findings of the EU project identification study. A high level delegation from Tonga is to convey this in person to the EU in Suva in July.	Was to have started in 1 QTR 08. A PAS has been drafted and commented on by the PMO. Revision of the PAS by the EPU is to be conducted after the meeting with the EU in Suva.
TO-14: Biofuel feasibility study	10,000		Was to have started 1 QTR 08. 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. Further grid connected solar PV in the outer islands have been discussed under the IPCP.	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. A new PAS is to be drafted for the IPCP project.
VU-14: Review of the 2002 Talise Mini Hydro Feasibility Study	9,000	Talise has been proposed and approved for funding under the IPCP.	A PAS was drafted and reviewed by the PMO. In consultation with IUCN and the Energy Unit, the ToR for the study was modified to cover other electrification options at Talise. The PAS will be finalised following a visit by the IUCN to Vanuatu in July.

³ Italy-Pacific Cooperation Programme. Tonga's IPCP (as well as Palau's, RMI's, Samoa's, Tuvalu's and Vanuatu's) are managed through IUCN Oceania.

2 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	Energy Office budget for RE activities is to be the co-financing. New govt budget (key co-financing) was tabled in Parliament in March 2008 and still no advice from the Solomon Is on the outcome.	Supposed to have started in 1 QTR 08. A PAS is yet to be developed.
SI-5: Feasibility study for mini hydropower plants on Rori (Malaita) under Rural Electrification Framework	2,500	Energy Office budget for RE activities is to be the co-financing. New govt budget (key co-financing) was tabled in Parliament in March 2008 and still no advice from the Solomon Is on the outcome.	Supposed to have started in 1 QTR 08. A PAS is yet to be developed.
SI-11: Support to investment Development Projects	2,000	Energy Office budget for RE activities is to be the co-financing. New govt budget (key co-financing) was tabled in Parliament in March 2008 and still no advice from the Solomon Is on the outcome.	Supposed to have started in 1 QTR 08. A PAS is yet to be developed.
SI-17: Feasibility study of economic of scale of production/use of coconut oil /bio-fuel as fossil fuel substitute in power generation in outer islands SIEA power stations.	1,000		A PAS is yet to be developed.
SI-18: Feasibility study of solar Grid interactive system for National Referral, Lata, Kira Kira, Auki, Malu'u, Gizo, Tulagi and Helena Goldie Hospitals	2,000		A PAS is yet to be developed.
SI-20: Micro Biofuel Enterprise Development	2,000		A PAS is yet to be developed.
SI-26: Micro hydropower prefeasibility study at vaious sites at Atoifi Hosp., Kounabusu (Kwaio), Manawai	2,000		A PAS is yet to be developed.

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
(upgrade), Masupa'a, River Side and Rara village, all in Malaita			
SI-27: Biofuel Study & Development	1,000		A PAS is yet to be developed.

2 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		Supposed to have started 1 QTR 08. Was the top priority project but Fiji DoE advised that this activity has been reprioritised. A PAS is yet to be developed.
KI-16: Migrating RESCO Manager to an open source platform.	6,000	A UNDP Training of Trainers project plus the Solar Energy Company's funding of IT contracts are the co-financing activities. Due to changes in the way SEC wanted to carry out the training, the ProDoc has been changed and need to be reprocessed and approved. SEC has signed consultancy Contracts with Marc Torra Griso to make improvements to the RESCO Manager. A contract has also been signed with Software Factory Ltd of Suva to correct minor problems and bugs in the RESCO Manager.	A draft PAS was prepared and reviewed. PAS will be further reviewed based on the revised ProDoc.
NI-4: Capacity Building, NPC/Private Sector	2,000		Supposed to have started 1 QTR 08. A PAS is yet to be developed. PMO visit planned for 3 QTR 08 to provide assistance.
NI-6: Energy Coordinator / AFO	3,750		A PAS is yet to be developed. PMO visit planned for 3 QTR 08 to provide assistance.
SA-5: Establish the	2,500	ADB-funded power sector	PIGGAREP value-added

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
Designated National Authority (DNA) for CDM activities		expansion programme.	activity is to be finalised with the Electric Power Corporation. A PAS is yet to be developed.
SI-14: Setup of RE Unit	2,000	Energy Office budget for RE activities is to be the co-financing. New govt budget (key co-financing) was tabled in Parliament in March 2008 and still no advice from the Solomon Is on the outcome.	Was to have started 1 QTR 08. A PAS is yet to be developed.
TO-1: Joint annual committee meetings	Subsumed into TO-2: Technical evaluation of the solar installations		
TV-6: Training of TEC Outer Islands Supervisors on RE Technology	20,000	Installation of the 40 kW grid connected PV system was completed during the quarter. Project costed approximately USD 412,000. Currently being reconsidered to be a part of the IPCP.	Was to have been completed on 1 QTR 08. A PAS was drafted and reviewed. Will be finalised in light of the development of the IPCP project.
VU-11: Review of the Rural Electrification Policy	6,000	AusAID is funding an Energy Advisor to assist the Energy Unit to review the RE Policy.	A PAS was developed and reviewed. This activity will be revised once the Advisor is on board and his/her work plan is finalised.
Assistance to establish a Ministry of Environment in the Solomon Is.	50,000	SPREP assisted to establish the Ministry of Environment, Conservation and Meteorology (MECM) with a Corporate Plan for 2008 – 2010. A new Climate Change Division (CCD) within the ministry has been established to maximize national benefits from adaptation and mitigation projects such as the Pacific Adaptation to Climate Change (PACC) and the PIGGAREP.	

2 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			
SA-7: Establish a Clean Energy Fund	2,500	ADB-funded power sector expansion programme.	PIGGAREP value-added activity is to be finalised with the Electric Power Corporation. A PAS is yet to be developed.
SA17: 1.4.1 (3.4.2) Coordinate the development of an Energy demand and supply database - collection of RE data.	825		Was to have been completed 1 QTR 08. A PAS is yet to be developed.
SA-18: Develop funding proposals	1,000		A PAS is yet to be developed.
SI-6: RE Electricity Pricing Study	2,500		A high priority activity which was to have started 1 QTR 08. A ToR was drafted with suggestions to relate is closely with the PIEPSAP's base tariff study of 2007. No further progress from the Solomon Is Electricity Authority.

2 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		Was to have started 1 QTR 08. A PAS is yet to be developed.
NI-7: Develop renewable energy plans and targets for 2010, 2020 and 2050	1,500		Was to have started 1 QTR 08. A PAS is yet to be developed.
SA-19: 1.2.2 (2.1.4) Develop an Energy Bill - RE component	1,500		Was to have completed 1 QTR 08. A PAS is yet to be developed.
SI-16: Energy Supply/Demand Studies	300		Was to have started 1 QTR 08. A PAS is yet to be developed.
SPREP's assistance to draft the Tuvalu Environment Protection Bill.	60,000	The Tuvalu Environment Protection Bill has passed in its Secondary Reading in June. By the end of this year the Bill will go through its final reading and then it will become an Act. Promotion of	

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		RE and reducing carbon emissions are stipulated in the Bill.	

2 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		Was to have started 1 QTR 08. A PAS is yet to be developed.
FJ-6: Holistic training provided for Energy staff, rural communities, village technicians and relevant stakeholders of the Renewable Energy sector	5,000		Was to have started 1 QTR 08 but later reprioritised. A PAS is yet to be developed.
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.	Was to have completed 1 QTR 08.
KI-13: Technical visits to biofuel developments either in Vanuatu and Majuro or Philippines	10,000		A PAS is yet to be developed.
KI-22: Public awareness campaigns	500		A PAS is yet to be developed.
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 (see NA 1/08 above).
SA-1: Capacity Building training needs on RETs (ADB)	1,000		A PAS is yet to be developed.
SA-2: Training programme on RETs (ADB)	1,000		A PAS is yet to be developed.
SA-21: National energy awareness campaign day	10,000	The Samoa project concept under the IPCP has been approved for funding by the Italians. Ministry of Finance contributed cash and in-kind assistance towards the	Activity has been completed, evaluated and reported (see http://www.sprep.org/climate_change/piggarep)

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		awareness day.	
SI-24: Technical Support to the SITAFE Renewable energy library centre	2,000		A PAS is yet to be developed.
TO-17: RE Awareness Programme	1,500		Was to have started 1 QTR 08. A PAS is yet to be developed.
TO-09: Training on RE for AMREC	15,000	Activity is to enable local contractors to compete for the RE contracts in Tonga's EDF 10 RE project.	A PAS is yet to be developed.
VU-17: Community Awareness	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.	Activity has been completed, evaluated and reported (see http://www.sprep.org/climate_change/piggarep)

2 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	66,560	<p>The PMO conducted the SIS Capacity Building Workshop with support from Taiwan, REEEP, SOPAC and UNELCO. Taiwan also funded a consultant to take footages at the workshop, RE sites at Vanuatu and including interviews with participants. These footages will be used in an UNDP film of climate change that will be launched at the Forum meeting at Niue during 3 QTR 08.</p> <p>SPREP assisted to establish the Ministry of Environment, Conservation and Meteorology (MECM) in the Solomon Islands with a Corporate Plan for 2008 – 2010. A new Climate Change Division (CCD) within the ministry has been established to maximize national benefits from adaptation and mitigation projects such as the Pacific Adaptation to Climate Change (PACC) and the PIGGAREP.</p>	<p>Completed the second Project Steering Committee meeting on 15th April.</p> <p>Met a representative of JICA on 30 April to discuss PIGGAREP assistance to Tuvalu to ensure no duplication with future JICA assistance.</p> <p>Finalised and launched the call for proposals for the following activities:</p> <ul style="list-style-type: none"> • Wind Power Feasibility Study - Nauru • Geothermal Study – PNG • Centralised solar PV feasibility study – PNG • Review of the Ha'apai Solar Electricity Incorporated – Tonga • RE & EE Unit study - Tuvalu <p>The PM was invited and paid by ADB to participate at a workshop on Financing Village Level Energy for Asia / Pacific in Manila on 9-11 April. This</p>

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
		<p>Through SPREP's assistance, the Tuvalu Environment Protection Bill has passed in its Secondary Reading in June. By the end of this year the Bill will go through its final reading and then it will become an Act. Promotion of RE and reducing carbon emissions are stipulated in the Bill.</p> <p>Reviewed a report on a Strategic review of REEEP's priorities in the Pacific, prepared by IT Power (Australia) Pty Limited in conjunction with Keith Baker, for the Department of Environment, Water, Heritage and the Arts (DEWHA). The report presents an evaluation of the research undertaken into energy programs and needs in the Pacific, and is intended to inform the 7th project funding round of the Renewable Energy and Energy Efficiency Partnership (REEEP) scheduled for the first half of 2008.</p> <p>Continued the co-financing discussions with the Renewable Energy and Energy Efficiency Partnership (REEEP) as well as IUCN.</p> <p>The PMO continued to receive technical support from other programmes at SPREP, in particular the Publication and Media Section. A press release was made of the SIS workshop in Vanuatu on 22 April. The workshop was also covered in SPREP's Highlights for April.</p> <p>Assistance was also provided in developing the PIGGAREP web-page which is expected to be on air early in 3 QTR 08.</p>	<p>in Manila on 9-11 April. This provided an opportunity to discuss possible joint CDM activities with ADB.</p> <p>A progress meeting was held with UNDP Samoa on the 2nd May.</p> <p>The PM participated at an IUCN consultation meeting on 6-8 May about its Italian-funded activities in Samoa, Tonga and Vanuatu. The IUCN meeting was followed with an informal CROP EWG meeting about REM/PEMM 2009.</p> <p>PM participated in a Samoa Electric Power Corporation's (EPC) roundtable discussion on community consultation / involvement in hydro development on 22 May.</p> <p>The PM participated in a roundtable discussion of Samoa's GHG inventory report for its Second National Communication on 26th May.</p> <p>Met the IUCN EESLI Project Coordinator on 18th June as part of his consultations in Samoa. Discussed the joint position concept, outcome IUCN's meeting with the Italians and the joint review meeting in November. Also discussed possible joint activities in Samoa, Tonga, Tuvalu and Vanuatu.</p> <p>A consultation meeting was held on 19 June with a FAO-funded consultant doing a biofuel study for EPC. PIGGAREP invited IUCN/EESLI to this meeting.</p> <p>PM provided inputs to a SOPAC consultancy study on Coordination and Implementation Mechanisms</p>

2 QTR Activities	Budget (USD)	Status of co-financing activities	Status of incremental activities
			Implementation Mechanisms for Regional Energy and Pacific ACP EDF 10 Energy Initiatives.

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 challenges were encountered during the quarter except for the relative low delivery rate at 29% (please refer below). An indication of this problem is the many instances where 'A PAS is yet to be developed' (please refer to Table 1: Report on 2 QTR Activities by Key Project Outcome). Combined with the also relative low delivery rate for first quarter 2008 (at 17%) it seems that the 2008 work plan and budget are too ambitious. This is in terms of the number of activities in each PICs work plan, their relatively small budget and the capacity to do the required preparatory work on these activities (like drafting the Project Activity Summaries, Terms of References, etc).

The experiences from the SIS RE Capacity Building workshop conducted during the quarter showed that some PICs prefer that similar national activities be made a sub-regional or regional activities.

10. Solutions Applied (to address issues and challenges)

A possible solution to the low delivery rate includes strengthening the PMO's capacity to assist with the preparatory work required to get activities designed. In this context in the beginning of next quarter SPREP will undertake the review of the PMO's capacity to effectively manage the project that was agreed to at the inception meeting in November 2007 and share the findings and recommendations with countries and members of the PSC for consideration. In addition it is preliminary proposed that the work-plan for 2009 have fewer, more focused/clustered and bigger in-country activities and where appropriate have an increasing number of sub-regional and regional activities.

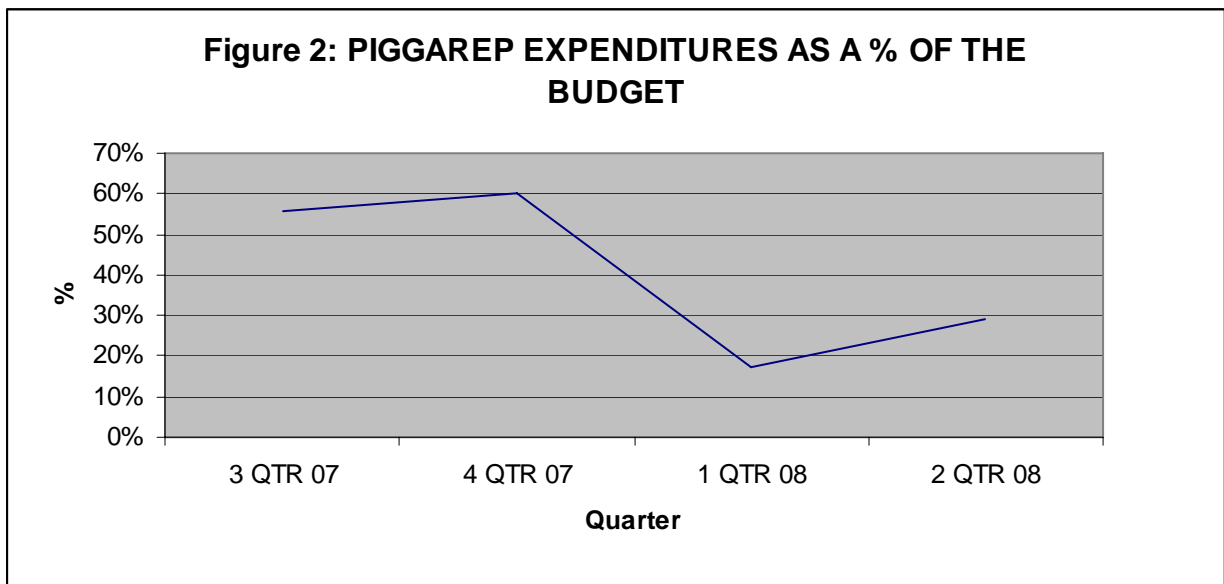
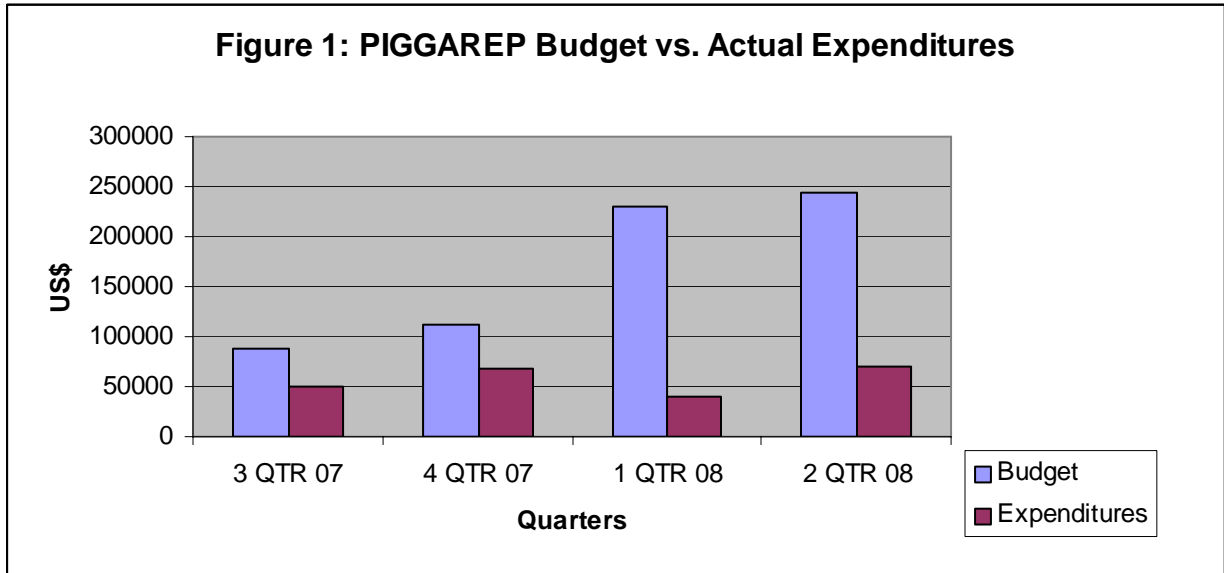
Serious consideration should now be directed to the conduct of the first review meeting and the formulation of the 2009 work plan and budget. IUCN has agreed in principle to have a joint meeting in November. This should be an opportunity to discuss joint activities with IUCN, other co-financing agencies and the PICs but also to introduce "relevant" sub-regional and regional activities into the work plan in accordance with the adopted project support criteria.

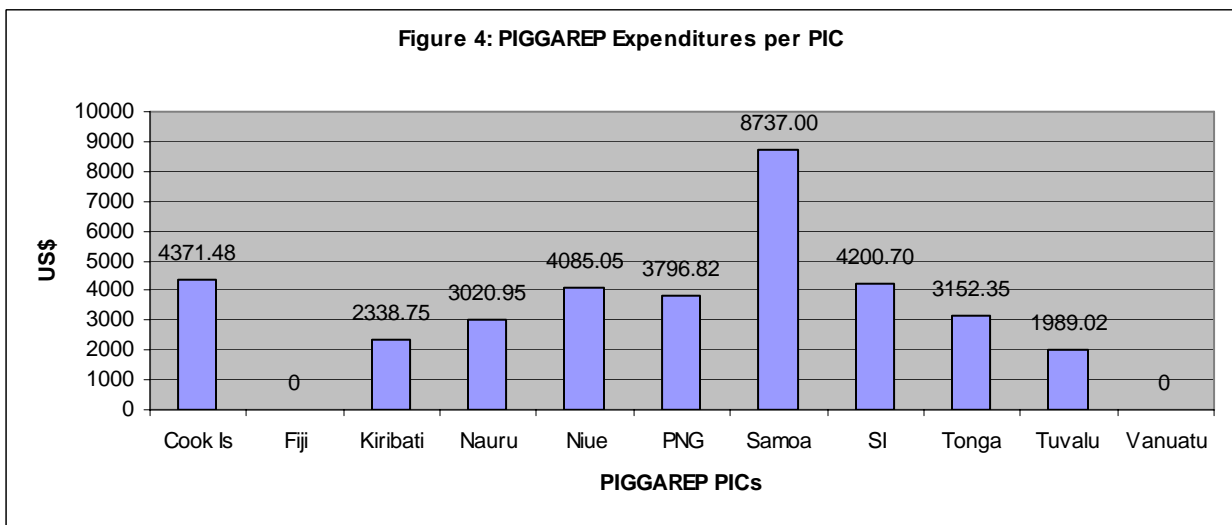
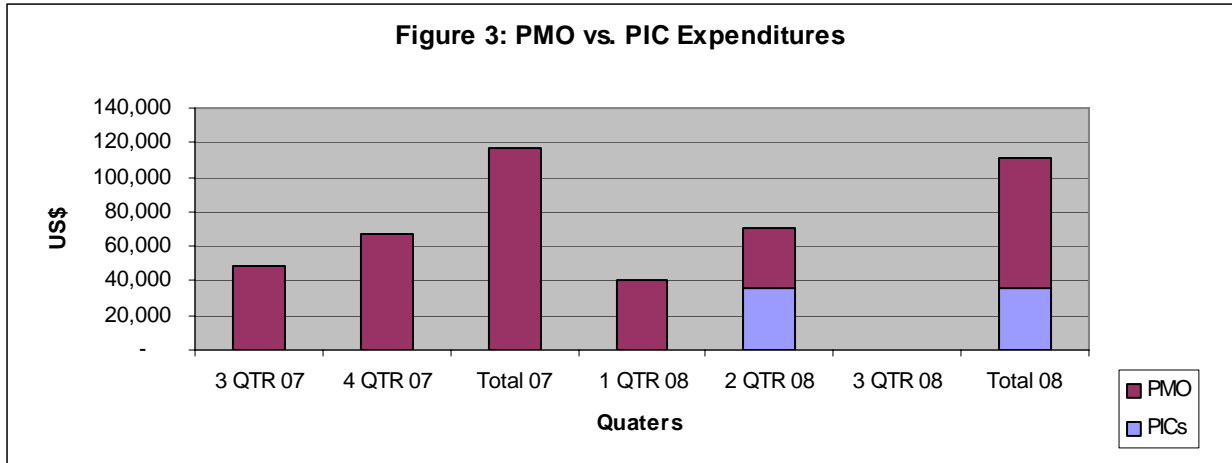
11. Recommendations for Future Action/Work Plan Quarter 3/2008

In order to keep the length of this report short, please See QTR 3 column of Annex 1.

12. Project Finance

The total budget for the quarter was USD 244,560. Total expenditures were USD 70,905 (or 29% of the budget) with USD 30,178 being PMO-related costs and USD40,727 being for PICs project activities. An analysis of the project finance to the end of the quarter can be seen in the following graphs:





This is the first quarter that expenditures are made on PIC project activities and are therefore charged against each PIC's indicative allocation. It is expected that PIC expenditures will continue to increase in 3 QTR 08 due to the implementation of more PIC activities in the coming quarter.

The estimated total budget for the next quarter is US\$291,337 and 82% is for country activities while the rest is for the PMO. An advance of US\$117,682 is requested for the 3 QTR 08. With this advance, the drawdown on the PIGGAREP 2008 budget would be US\$357,695 out of a total budget of US\$1,119,700 with only a quarter remaining before the end of the year. Obviously, the spending in 2008 would be less than 60% of the budget. On the other hand, the drawdown of the PIGGAREP funds on its first year of operation (July 2007 – July 2008) has now reached the half a million mark with US\$518,857.

The financial report for the quarter is attached as Annex 2.

13. Report Prepared By: Solomone Fifita
Project Manager
15 July 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) participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.

A Project Activity Summary (PAS) was prepared for a *Topographical & Geotechnical Survey* on a possible wind farm site at Rarotonga. The call for proposals will be in early 3 QTR 08 and the study to be completed before end of 3 QTR 08.

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	
<p>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.</p> <p>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:</p> <p>i) Renewable Energy Database</p>									

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	ii) Renewable Energy Statistics								
	iii) Capacity Building								
	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 prepared 2 PAS for a renewable energy <i>Data Entry Clerk (DEC)</i> and <i>Support the Renewable Energy Sector (Hydro, Biogas)</i> in Fiji.									
The Fiji Department of Energy (DoE) has advertised for the DEC and has received about 200 applications. Short-listing for interview is currently underway. A draft contract between SPREP and the successful candidate has been prepared and forwarded to the DoE. DoE has also been requested to review the PAS to clarify the link between the baseline and incremental activities, as suggested by UNDP-GEF. Similar request has been made of the <i>Support the Renewable Energy Sector (Hydro, Biogas)</i> in Fiji.									
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	
KI5	Training component related to the installation of the new		SEC			17,000		17,000	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	RESCO Manager								
KI16	Migrating RESCO Manager to an open source platform.		SEC		6,000	6,000	7,000	19,000	
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

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

The Solar Energy Company (SEC) has developed a PAS to strengthen the effectiveness of the management of the SEC through supporting the development of software known as the RESCO Manager. The co-financing activity was to be an UNDP-funded training of trainers. The SEC has requested UNDP to integrate the training of trainers with the RESCO Manager. UNDP has then requested SEC to revise the Project Document and that this new ProDoc would have to go through its project approval process. Once this new ProDoc is approved, SEC will then revise its PAS.

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 provided 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

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	<p>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.</p> <ul style="list-style-type: none"> 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. <p>PICP Nauru has signed the communiqué for the PICP and received USD17,000 for developing its proposals. Proposals were developed and submitted. These were for improving water supply which would involve solar water pumps and solar powered computers for schools.</p> <p>EDF 10 Nauru has signed the Financing Agreement for the EDF 10. The consultant doing the project identification study visited Nauru in February 2008.</p> <p>Taiwan Taiwan will provide 60 stand alone solar systems to Nauru. These are expected to be installed at the community leaders' houses.</p> <p>PIGGAREP The Nauru Utility Authority participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.</p> <p>The wind power feasibility study has now been advanced to begin in 2008. The PAS was drafted during the PM mission in early February. The PSC 1 endorsed PAS. The request for proposals for the <i>Nauru Wind Power Feasibility Study</i> was launched. The evaluation of the proposals was completed and the contract is ready to be signed pending confirmation of the commitments of the Nauru government to the project. A draft cabinet paper was prepared which the national project coordinator is using to first prepare a brief for the minister whereby the minister will then give direction for the subsequent briefing of the Cabinet.</p>								
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	
<p>General Progress: The general progress with the co-financing has been satisfactory while the PIGGAREP activities have been slow.</p> <p>REP-5</p> <ul style="list-style-type: none"> Supply of solar water heaters 240 SWHs are currently being installed by local contractors under this programme. To be eligible for the discount, residents must hand in their existing electric water heaters. Total costs: 600,000 Euro. 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. 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. <p>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.</p>									

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
PICP									
Niue has signed the Communiqué but and has identified one Mr George Lakatani to be responsible for drafting Niue's proposals. PIGGAREP provided Tuvalu and Vanuatu's proposals as a reference.									
PIGGAREP									
Niue Power Corporation participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.									
Project Manager to visit Niue in early 3 QTR 08 and for a PAS to be drafted.									
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		PNGSEL				70,000	70,000	Will cover participation at the SIS Capacity Building Workshop in 2 QTR.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	Guinea Gold Collaboration on Geothermal Energy								
	Sub-total PNG			12,887	-	6,452	78,000	97,339	

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

Government of Italy and PIC Cooperation Programme

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.

The Italians have not come back after PNG's last contact with them in February 2008. Reminders were sent and there's hope to hear from them soon. There is disappointment in having to wait for many months.

Sustainable Energy Ltd

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. Their 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. Small scale 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 their rural electrification programs as they 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 PNGSEL's 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.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
									<p>2. The other area of interest is in Photovoltaic. PNGSEL have identified areas where Solar Powered Stations would be the most 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 PNGSEL's 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 these projects. Again, PNGSEL 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 the 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 PNG SEL participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.</p> <p>The PNG Sustainable Energy Limited (PNSSEL) developed two PAS. One was on a Geothermal Pre-feasibility Study at Sinivit and the other was for a Feasibility Study of a mini PV grid at Mabudawan.</p> <p>After launching the call for proposals for the Sinivit study, PNGSEL has advised in May that after consideration of the issues around developing this project for investment, it believed it is better for this early activity to be carried out by PNGSEL itself. Under these circumstances it wished to withdraw this activity from PIGGAREP but still wish to keep the option of obtaining PIGGAREP funding for a later activity on the Sinivit Project.</p> <p>The call for proposals for the feasibility study of a mini PV grid at Mabudawan was completed and evaluated. The PAS for this activity has not clarified the link between the baseline and incremental activities, as suggested by UNDP-GEF, in particular, a commitment to invest on the project if the study proves feasible. PNGSEL advised that the Board of the PNG Sustainable Development Programme will decide on this in its meeting in early July.</p>
SA1	2.3.1 (3.1.3) - Capacity Building training needs on	Technical	Energy Division, energy stakeholders,		1,000			1,000	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	RETs (ADB)		EPC, Private sector, MWCSO, SWA,						
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 Authority (DNA) for CDM activities	Technical	Energy Division, MNREM, MWTI, MWCSO, EPC, SUNGO, consultants		2,500			2,500	
SA6	2.2.5 Build capacity in CDM process and implementation	Technical	Energy Division, MNREM, MWTI, MWCSO, EPC, SUNGO, consultants			5,000		5,000	
SA7	2.2.7 Establish a Clean Energy Fund	Technical	Energy Division, MNREM, MWTI, MWCSO, EPC, SUNGO, consultants		2,500			2,500	
SA8	2.2.8 Build capacity in Clean Energy Fund operational processes	Technical	Energy Division, MNREM, MWTI, MWCSO, 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	Finance	Energy Division, RDIS, MNREM, MAF, MWCSO, NUS, EPC, SWA, consultants			5,050		5,050	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	source identified in 2.1.1								
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, MWCS D, 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	
SA18	2.4.2 Develop funding proposals for 2.4.1	Finance	RDIS, Energy division, MNREM, MAF, MWCS D, 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, MWCS D			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 slow too.

The ADB Power Sector Expansion Project

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

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
									<p>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.</p> <p>A TA to implement Samoa's National Energy Policy. The TA will consist of a:</p> <p><u>Component 1 - Regulatory Reform in the Power Sector</u> 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.</p> <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:</p> <p><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 Palau, RMI, Samoa Tonga, Tuvalu and Vanuatu.</p> <p>Joint PIEPSAP, UNDP and SOPAC Energy Projects 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 in the suggestion of some activities to be picked up by PIGGAREP.</p>

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
<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, EPC and the government of Samoa is working on the Upolu wind resource assessment project (US\$32,000). The project will select, install, and operate two (2) wind monitoring stations and after 1-2 years 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> <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 the 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 revised Work Plan and Budget 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 warranties or operational characteristics of the diesel engines.</p> <p>PIGGAREP</p> <p>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.</p> <p>April 25th 2008 was dedicated as the Samoa National Energy Awareness Day (SNEAD) with activities targeting mostly school children. The theme for this event was "<i>Energy for Life, Use it Wisely</i>". The events during the SNEAD involved speech, poster and renewable energy model competitions among the primary and secondary schools. About 400 students participated in this event plus members of the general public who were mostly part-time participants throughout the event. The report on this event and its evaluation by the PIGGAREP PMO can be viewed at the PIGGAREP web page http://www.sprep.org/climate_change/piggarep.htm</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

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
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
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.	Study Report presented for proper action	MME, SIEA, Private		2,000	2,000	1,000	5,000	

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
	Tulagi and Helena Goldie Hospitals								
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	
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.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
SIVEC's RE Development Activities									
PIGGAREP									
SIEA and Willie's Electrical participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.									
A draft PAS was received to study the feasibility of a Micro Biofuel Enterprise in the Solomon Is. This PAS was reviewed and assessed and sent back to the Solomon Is. The project proponents have not updated it. The major concern, as is common with some other PAS, is the placement of the incremental activity at the front to be followed by the co-financing activity. This does not follow the incremental / value added logic because if the outcome of the incremental activity is not feasible then the co-financing activity will not take place, resulting in a waste of GEF resources.									
The Solomon Is Electricity Authority (SIEA) submitted a draft ToR for a study to establish a template for RE pricing. It was raised with SIEA the importance of ensuring that this study will not be a repetition of what has already been covered in the 2007 PIEPSAP base tariff review and to create the linkage between the two studies. It was also suggested to SIEA that the objective of "designing a template" be extended to cover three areas suggested in the PIEPSAP study:									
<input type="checkbox"/> Least cost generation plan to reduce diesel dependence <input type="checkbox"/> SIEA's technical criteria for the power it will purchase <input type="checkbox"/> Pricing template or pricing framework or the avoided costs									
There has not been any further communications from SIEA on this study.									
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.
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 Niuaatoputapu. 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.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
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 Niuatoputapu [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 (Niuatoputapu, 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 Niuatoputapu and 289 for Vava'u with Italian funds.

The IUCN project manager will visit Tonga early in the third quarter and this joint study will be discussed with the EPU in Tonga.

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 1 QTR 08. Tonga will propose to the EU in 3 QTR 08 that its project will be on wind

PIGGAREP

EPU participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.

The request for proposals for the review of the Ha'apai Solar Electricity Incorporated was launched during the quarter. The Tonga Energy Planning Unit (EPU) considered the financial proposals to be too high and therefore explored the opportunity of engaging a team of local experts to do the review. This involved using the services of a local teacher whose MSc thesis was based on the HSEI and was assisted by SOPAC with her study. Unfortunately, she declared herself unavailable at the last minute due to her teaching commitments.

Tonga has proposed the rehabilitation of the PV systems installed in 2 islands in the Ha'apai Group that were electrified before the HSEI was established to be funded under the IUCN/Italian programme. The Tonga proposal also included the electrification with solar PV of one island in the Ha'apai group. Since IUCN would like to conduct a feasibility study of this rehabilitation / new electrification, Tonga has been advised to consider doing the HSEI review and the IUCN study as just one study under the PIGGAREP. The IUCN project manager will visit Tonga early in the third quarter and this joint study will be discussed with the EPU in Tonga.

Tonga also submitted a draft PAS for a wind power feasibility study. This PAS was reviewed and returned to Tonga. Tonga has proposed to the European Union that its priority project in the EDF 10 (approximately 5.9 million Euro) will be wind power. A high level delegation from Tonga will discuss this project with the EU early in the third quarter and the PIGGAREP's value added activity will be revised accordingly.

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

PICP

Communiqué has been signed and a proposal was developed and submitted. The Tuvalu Photovoltaic Electricity Network Integration Project (TPVENI) is for USD800,000. These grid-connected PV systems are 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 Strategic Energy Action Plan 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.
- 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.

The EESLI Project Coordinator visited Vanuatu in 2 QTR 08 to confirm work plan and budget.

PIGGAREP Activities

TEC participated in the SIS Capacity Building Workshop on Renewable Energy Technology Applications that was held at Port Vila, Vanuatu on 21 – 25 April 2008.

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
The request for proposals for the study of establishing and operationalising a Renewable Energy and Energy Efficiency Unit within the Tuvalu Electricity Corporation was launched during the quarter. The consultancy contract has been signed and the study is expected to begin in July and to be completed by end of August 2008.									
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	
VI11	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

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 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 ACP-EU Energy Facility. 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 electricity 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

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
									<p>hospital and 1 dispensary, in the villages of Saratamata, Lolowai and Longana in East Ambae. This will increase the rate of access to electricity from 6.8% to 7.1%.</p> <p>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.</p> <p>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.</p> <p>The VANREPA's EU ACP Energy Facility-funded project on wind</p> <p>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.</p> <p>PIGGAREP will support VANREPA's wind project in the areas of awareness and the support and identification of income generating opportunities.</p> <p>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.</p> <p>PICP</p> <p>Vanuatu has proposed the following and have been approved for funding:</p> <ul style="list-style-type: none"> ○ 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). <p>The EESLI Project Coordinator will visit Vanuatu in 3 QTR 08 to confirm work plan and budget.</p> <p>AusAID-funded Energy Advisor</p> <p>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 Growth (GFG) Program, which is a joint initiative of the Governments of Vanuatu and Australia, funded by AusAID.</p> <p>PIGGAREP</p> <p>The Vanuatu Energy Unit (EU) submitted a draft PAS to review its rural electrification policy. It was later discovered that AusAID is funding an Energy Advisor for the EU and the role of the advisor will include reviewing the REP.</p> <p>The EU then developed a PAS for a review of a hydropower study that was conducted at Talise in 2001-2002. Several revisions of the PAS were made pending the receipt of the study report, which is only available in a hard copy. However upon receipt of this report, it was obvious that some bias was given towards hydropower, that the study did not look at other electrification options and that it was not a full fledged economic feasibility study. Vanuatu's proposal to the IUCN/Italy was to construct this hydropower project.</p>

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
				<p>It was therefore raised with the EU and IUCN that the ToR be expanded to include other electrification options and for a full technical, economic and environmental assessment to be made of the proposed project. The IUCN project manager will visit Vanuatu in late July and will finalise the ToR with the EU.</p> <p>Vanuatu's work plan includes community awareness activities for VANREPA. VANREPA however felt it should first develop a training strategy and supportive educational resources for its RE Development Activities. The ToR was drafted by a potential consultant. VANREPA was advised that the draft ToR reflects its needs and not the capability of the potential consultant. No further developments from VANREPA on finalising the ToR and drafting a PAS.</p>					
	Grand Total for Year 1 Country Activities:			177,812	178,000	237,777	299,665	893,254	
PMO									

Project Code	Activity	Outcome	Lead / Collaborating Agencies	Year 1 Quarters				Year 1 Total	Comments
				1	2	3	4		
									<p>The PMO conducted the SIS Capacity Building Workshop with support from Taiwan, REEEP, SOPAC and UNELCO. Taiwan also funded a consultant to take footages at the workshop, RE sites at Vanuatu and including interviews with participants. These footages will be used in an UNDP film of climate change that will be launched at the Forum meeting at Niue during 3 QTR 08.</p> <p>SPREP assisted to establish the Ministry of Environment, Conservation and Meteorology (MECM) in the Solomon Islands with a Corporate Plan for 2008 – 2010. A new Climate Change Division (CCD) within the ministry has been established to maximize national benefits from adaptation and mitigation projects such as the Pacific Adaptation to Climate Change (PACC) and the PIGGAREP.</p> <p>Through SPREP's assistance, the Tuvalu Environment Protection Bill has passed in its Secondary Reading in June. By the end of this year the Bill will go through its final reading and then it will become an Act. Promotion of RE and reducing carbon emissions are stipulated in the Bill.</p> <p>Reviewed a report on a Strategic review of REEEP's priorities in the Pacific, prepared by IT Power (Australia) Pty Limited in conjunction with Keith Baker, for the Department of Environment, Water, Heritage and the Arts (DEWHA). The report presents an evaluation of the research undertaken into energy programs and needs in the Pacific, and is intended to inform the 7th project funding round of the Renewable Energy and Energy Efficiency Partnership (REEEP) scheduled for the first half of 2008.</p> <p>Continued the co-financing discussions with the Renewable Energy and Energy Efficiency Partnership (REEEP) as well as IUCN.</p> <p>The PMO continued to receive technical support from other programmes at SPREP, in particular the Publication and Media Section. A press release was made of the SIS workshop in Vanuatu on 22 April. The workshop was also covered in SPREP's Highlights for April.</p> <p>Assistance was also provided in developing the PIGGAREP web-page which is expected to be on air early in 3 QTR 08.</p> <p>Completed the second Project Steering Committee meeting on 15th April.</p> <p>Met a representative of JICA on 30 April to discuss PIGGAREP assistance to Tuvalu to ensure no duplication with future JICA assistance.</p> <p>Finalised and launched the call for proposals for the following activities:</p> <ul style="list-style-type: none"> • Wind Power Feasibility Study - Nauru • Geothermal Study – PNG • Centralised solar PV feasibility study – PNG • Review of the Ha'apai Solar Electricity Incorporated – Tonga • RE & EE Unit study - Tuvalu <p>The PM was invited and paid by ADB to participate at a workshop on Financing Village Level Energy for Asia / Pacific in Manila on 9-11 April. This provided an opportunity to discuss possible joint CDM activities with ADB.</p> <p>A progress meeting was held with UNDP Samoa on the 2nd May.</p> <p>The PM participated at an IUCN consultation meeting on 6-8 May about its Italian-funded activities in Samoa, Tonga and Vanuatu. The IUCN meeting was followed with an informal CROP EWG meeting about REM/PEMM 2009.</p> <p>PM participated in a Samoa Electric Power Corporation's (EPC) roundtable discussion on community consultation / involvement in hydro development on 22 May.</p> <p>The PM participated in a roundtable discussion of Samoa's GHG inventory report for its Second National Communication on 26th May.</p> <p>Met the IUCN EESLI Project Coordinator on 18th June as part of his consultations in Samoa. Discussed the joint position concept, outcome IUCN's meeting with the Italians and the joint review meeting in November. Also discussed possible joint activities in Samoa, Tonga, Tuvalu and Vanuatu.</p> <p>A consultation meeting was held on 19 June with a FAO-funded consultant doing a biofuel study for EPC. PIGGAREP invited IUCN/EESLI to this meeting.</p>
Total for PMO				53,060	66,560	53,560	53,266	226,446	
Grand Total for 2008				230,872	244,560	291,337	352,931	1,119,700	

Financial Report


FR01



(a) Designated Institution: (b) Award Title Award ID (c) For the period: (d) Currency:	Secretariat of the Pacific Regional Environmental Programme (SPREP) : 'Pacific Islands Greenhouse Gas Abatement through Renewable Energy Project (PIGGAREP)' 01 April 2008 to 30 June 2008 US Dollars
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(I) Item	(II) Chart of Account	(III) Amount
(f) Opening Balance:		190,751
(g) Advance Received:		53,809
(h) Available Funds		244,560

	Account	Fund	Donor	
Detailed Expenditures:				
Project ID:				
1. TECHNICAL CAPACITY BUILDING & TECHNICAL SUPPORT				
1.1 - Provide support to Renewable Energy resource assessments and demonstration projects				
International Personnel	71200	62000	GEF Trustees	
Local consultants	71300	62000	GEF Trustees	
Contractual Services - Individuals	71400	62000	GEF Trustees	
Travel	71600	62000	GEF Trustees	
2. MARKET DEVELOPMENT				
2.1 Support market development				
International Personnel	71200	62000	GEF Trustees	
Local consultants	71300	62000	GEF Trustees	
Contractual Services - Individuals	71400	62000	GEF Trustees	
Travel	71600	62000	GEF Trustees	
3. INSTITUTIONAL STRENGTHENING				
3.1 Provide institutional strengthening				
International Personnel	71200	62000	GEF Trustees	
Local consultants	71300	62000	GEF Trustees	
Contractual Services - Individuals	71400	62000	GEF Trustees	
Travel	71600	62000	GEF Trustees	
4. FINANCING SUPPORT				
4.1 Provide support to establish and enhance existing financing mechanisms				
International Personnel	71200	62000	GEF Trustees	
Local consultants	71300	62000	GEF Trustees	
Contractual Services - Individuals	71400	62000	GEF Trustees	
Travel	71600	62000	GEF Trustees	
5. POLICY AND REGULATORY SUPPORT				
5.1 Provide assistance to establish and enhance existing and regulatory structures				
International Personnel	71200	62000	GEF Trustees	
Local consultants	71300	62000	GEF Trustees	
Contractual Services - Individuals	71400	62000	GEF Trustees	
Travel	71600	62000	GEF Trustees	
6. INFORMATION AND AWARENESS ENHANCEMENT				
6.1 Provide support to increased information and awareness in the area of Renewable Energy				
International Personnel	71200	62000	GEF Trustees	
Local consultants	71300	62000	GEF Trustees	
Contractual Services - Individuals	71400	62000	GEF Trustees	8,737
Travel	71600	62000	GEF Trustees	26,955
7. EFFICIENT AND EFFECTIVE PROJECT MANAGEMENT				
7.1 National Consultative Workshops				
Local consultants	71300	62000	GEF Trustees	
7.2 Project Manager				
Contractual Services - Individuals	71400	62000	GEF Trustees	26,684
Travel	71600	62000	GEF Trustees	3,494

Financial Report FR01			
(a) Designated Institution: (b) Award Title Award ID (c) For the period: (d) Currency:		Secretariat of the Pacific Regional Environmental Programme (SPREP) : ' Pacific Islands Greenhouse Gas Abatement through Renewable Energy Project (PIGGAREP) 01 April 2008 to 30 June 2008 US Dollars	
(I)	(II)	(III)	
Item	Chart of Account		Amount
7.3 Administrative Finance Officer Contractual Services - Individuals	71400	62000	GEF Trustees
7.4 SPREP Project Team Miscellaneous General Operating Expenses	7200	62000	GEF Trustees
7.5 Inception Meeting Travel	71600	62000	GEF Trustees
(i) Total Expenditures			70,905
(j) Closing Balance:			173,655
(k) Outstanding Obligations:			-
(l) Planned Expenditures:			291,337
(m) Total Requirements:			291,337
(n) Advance Requested:			117,682
Designated institution approval/signature: Name & Title: <u>Asterio Takesy, Director, SPREP</u> Signature : _____ Date : _____		Country office approval/signature: Name & Title: <u>Naheed Haque, Resident Representative, UNDP</u> Signature: _____ Date: _____	

'Pacific islands Greenhouse Gas Abatement through Renewable Energy Project (PIGGAREP)
Planned Expenditure for Quarter 3 - 2008

1. Technical Capacity Building & Technical Support	71,333
2. Market Development	23,778
3. Institutional Strengthening	23,778
4. Financing Support	23,778
5. Policy and Regulatory Support	47,555
6. Information and Awareness Enhancement	47,555
7. Efficient and Effective Project Management (PMO Costs)	53,560
Total Planned Expenditure for Quarter 2	<hr/> 291,337
Balance of funds available	(173,655)
Advance required	<hr/> 117,682 <hr/>