## PIGGAREP 2008 WORK PLAN & BUDGET (in USD)

Proj.			Lead / Collaborating		Year 1 (	Quarters			
Code	Activity	Outcome	Agencies	1	2	3	4	Year 1 Total	Comments
CK1	Mangaia Power System Upgrade	Technical	French and Aust govts, SOPAC and MIC	10,000	10,000			20,000	
									With support from Environment
CK4 CK8	Public Awareness Campaigns Wind Farm integration study	Awareness Technical	Energy, Media & NGOs Energy / TAU	15,000	15,000	2,500	2,500	5,000 30,000	and its Climate Change activities
CK11	MAM Wind resource assessment	Technical	Energy, MET & OMIA		5,000	5,000	5,000	15,000	For Mauke, Atiu & Mitiaro
	Exposure visit to the recyling facilitie	,							To address the environment problems relating to the disposal of
CK13	for cooking oil at USP and NZ RE / Green Award Programme for the	Awareness	Peter Marett				5,000	5,000	used cooking oil.
CK16	tourism sector	Awareness	Energy / Tourism				5,000	5,000	
CK17	Support to the Committee working or 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	Based on the REEP report, a hydro
	Hydro resource assessment in the								site in the upper Navua river is to be installed with a long term
FJ1	upper Navua River Areas Strengthen energy statistics in terms	Technical	DoE	500	500	500	500	2,000	monitoring station
	of renewable based data (prices,								
FJ4	capacity, supply, potential, etc, etc)	Technical	DoE			5,000	5,000	10,000	
FJ5	Establishment of the Biogas market	Market	DoE			10,000		10,000	This is a second development of
	Holistic training provided for Energy staff, rural communities, village								This is to provide rebates/incentive to renewable energy based
FJ6	technicians and relevant stakeholders of the Renewable Energy sector	Market	DoE	£ 000	£ 000	£ 000	£ 000	20.000	companies to expedite renewable
FJO		Market	DOE	5,000	5,000	5,000	5,000	20,000	energy developments in Fiji 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,
	Holistic training provided for staff members of the Energy (economics,								etc. Such short courses are offered
FJ7	accounting, policy, management, and other technology related training)		DoE	10,000	10,000	10,000	10,000	40,000	by USP, TPAF, PSC and international institutions
									Given the vast projects that are part of DOE's Annual Business Plan, it
	Review/adopt/enact relevant policies, frameworks, legislations for RET;								hopes to recruit project posts for
FJ8	Enactment of Fiji's Energy Bill Sub-total Fiji	Policy	DoE	2,500 18,000	2,500 <b>18,000</b>	2,500 <b>33,000</b>	2,500 23,000	10,000 <b>92,000</b>	specific renewable based projects
	Technical visits to biofuel developments either in Vanuatu and	Technical							
KI3	Majuro or Phillipines Technical visits to PV-Grid	Awareness Technical	KCMC, PUB, EPU		10,000			10,000	
KI4	developments in Tuvalu. Consultations on the National Energy	Awareness	EPU, SEC & PUB	10,000				10,000	
KI5	Policy and drafting of an Action Plan	Policy	EPU, MELAD, MISA				7,000	7,000	
	Refresher technical training following the EDF 8 OI electricification project.	-	SEC			10,000		10,000	
	Feasibility study on PV-grid pilot project at SEC Headquarter.	Technical	SEC, EPU, PUB			9,000	9,000	18,000	
	Training component related to the installation of the new RESCO					.,	.,		
KI5	Manager Migrating RESCO Manager to an oper	Awareness	SEC			17,000		17,000	
KI16	source platform.	Technical	SEC		6,000	6,000	7,000	19,000	Awareness raising activities linking
									RE projects to mitigating potential to climate change, and their
KI22	Public awareness campaigns	Awareness	EPU, MELAD,media		500		500	1,000	benefits to environment and economy
	Sub-total Kiribati Information dissemination on			10,000	16,500	42,000	23,500	92,000	
	renewable energy– all types (paper, radio, TV, leaflets, booklets,								
NA2	educational material) and translation into Nauruan	Awareness				2,500	2,500	5,000	
	Awareness raising and public education – educational material,					_,	_,	2,000	
	information days in all communities, (working with NGOs and community								
	leaders), school fairs, renewable energy competitions, meetings with								
	government officials, information day for government	1							
NA3		Awareness	Energy Efficiency			2,500	2,500	5,000	
NA4	Create an 'Energy and Environment' curriculum for the schools	Institutional Awareness	Officer (Utilities) and schools	10,000	10,000	10,000	10,000	40,000	
	Sub-total Nauru Capacity Building, NPC/Private			10,000	10,000	15,000	15,000	50,000	
NI4	Sector/	Awareness	NPC	1,000	2,000	1,000	1,000	5,000	NPC
NI6	Energy Coordinator / AFO	Institutional	NEAP	3,750	3,750	3,750	3,750	15,000	NPC
	AFO			3,730	3,730	3,730	3,730	15,000	
NI7	Develop renewable energy plans and targets for 2010, 2020 and 2050	Policy	NEAP	1,500	1,500	1,500	1,500	C 000	GON/NZ/AiDAUSAid
.11/	-	oncy	PALAF	1,500	1,500	1,500	1,500	6,000	GON/NZ/AIDAUSAIG
NIIO	Develop/Review fiscal policies to facilitate the achievement of the RE targets / Expansion	Dolis	NEAP			2.00-	2.00-		NPC/GON
NI8	Sub-total Niue	Policy	NLAF	6,250	7,250	3,000 9,250	3,000 9,250	32,000	M C/dON
	Buakap Aidpost Solar PV System		A TOTAL A TOTAL						Have vaccine fridge to treat
PN1		Technical	ATCDI at PNG University of Technology			4,452		4,452	emergencies, reduce long distance travel & decrease health problems.
	Investigating The Possibility Of Using Coconut Oil As A		Department of						Identify effect on diesel engines an make improvements. Cheap fuel
	Substitute Fuel For Diesel Engines		Mechanical Engineering at PNG University of						for engines. Growers will have a market to sell their crop & generate
PN2	o	Market	Technology	6,148				6,148	additional income.

Ī	Rehabilitation of the Bogo School Micro Hydro Power Scheme	1							Continue to provide electricity for the Health Centre to continue with
PN3	Solar Photovoltaic Project for the	Technical	ATCDI at PNG University of Technology	2,673				2,673	provision of improved medical services.
DN4	Baiteta Village Aidpost In the Madang LLG, Madang Province	Table: 1	ATCDI at PNG	2.00		205-			Have vaccine fridge to treat emergencies, reduce long distance
PN4 PN5	Clinical Waster Gasifier Project for Asaro Health Centre in the Eastern Highlands Province Renewable Energy Training in the	Technical Technical	University of Technology ATCDI at PNG University of Technology	2,774 1,292		2,000			travel & decrease health problems. Competely burn hospital wastes and minimise environmentall pollution
	Tour regions of PNG for Development workers (1. Kokopo - New Guinea Islands, 2. Lae - Momase, 3. Goroka - Highlands								Development workers can have
PN6	and 4. Port Moresby - Southern)  Exposure visit / training attachments visit to (1) CASE in	Awareness	ATCDI at PNG University of Technology				3,000	3,000	basic knowledge to assess projects like micro hydro & solar power Improved performance by staff
PN7	Perth WA, Australia, (2) RPC in Nimbin, Old, Australia	Awareness	ATCDI at PNG University of Technology				5,000	5,000	with improved design of projects & local trainees to benefit greatly.
PN11	PIGGAREP - PNGSEL - Bismark Energy Ltd and New Guinea Gold Collaboration on Geothermal Energy Sub-total PNG	Market		12,887	-	6,452	70,000 <b>78,000</b>	70,000 <b>97,339</b>	
	2.3.1 (3.1.3) - Capacity Building training needs on RETs (ADB)		Energy Division, energy stakeholders, EPC,						
SA1	2.3.2 (3.1.4) - Training programme on RETs (ADB)	Technical	Private sector, MWCSD, SWA, Energy Division, PSC, Energy Stakeholders,		1,000			1,000	
SA2	2.4.1 Coordinate the development	Technical	SWA, MWCSD, MNREM, RDIS RDIS, Energy Division, MNREM, EPC, MAF,		1,000			1,000	
SA4	of an RE programme with the RDIS 2.2.4 Establish the Desingated	Technical	SWA Energy Division, MNREM, MWTI,	1,000				1,000	
SA5	National Authority (DNA) for CDM activiites 2.2.5 Build capacity in CDM	Technical	MWCSD, EPC, SUNGO, consultants Energy Division,		2,500			2,500	
SA6	process and implementation	Technical	MNREM, MWTI, MWCSD, EPC, SUNGO, consultants			5,000		5,000	
	2.2.7 Establish a Clean Energy Fund		Energy Division, MNREM, MWTI, MWCSD, EPC,						
SA7	2.2.8 Build capacity in Clean Energy Fund operational	Technical	SUNGO, consultants Energy Division, MNREM, MWTI,		2,500			2,500	
SA8	processes  3.6.1 Consultancy to identify	Technical	MWCSD, EPC, SUNGO, consultants EPC, Energy Division,			5,000		5,000	
SA9	relevant DSM activities	Technical	MNREM, NUS, consultants EPC, Energy Division,				1,000	1,000	
SA10	3.6.2 Develop DSM strategies	Technical	NEC EPC, MNREM, Energy				1,000	1,000	
SA11	Hydro data collection programme Assess the practicality of REESCOs in maintaining RETs	Technical	Division, Energy Stakeholders Energy Division, EPC, energy stakeholders,	30,000				30,000	EPC
SA13	RE and related products	Market	private sector, MNREM SAME, Energy				10,000	10,000	
SA14	Development & promotion annual programme 2.4.3 (2.1.2, 5.3.1, 4.3.1) - prefeasibility studies on identified	Market	stakeholders, private sector, MNREM Energy Division, RDIS, MNREM, MAF, MWCSD, NUS, EPC,			10,000		10,000	
SA15	projects for 1 potential source identified in 2.1.1	Finance	SWA, consultants			5,050		5,050	
	2.4.4 (2.1.3) Full feasibility study on identified projects in 2.1.1		Energy Division, RDIS, MNREM, MAF, MWCSD, NUS, EPC, SWA, consultants						
SA16	1.4.1 (3.4.2)Coordinate the development of an Energy	Finance	Energy Division, Statistics, energy				7,100	7,100	
	demand and supply database - collection of RE data.		stakeholders, EPC, MNREM, MWTI, MOR, Gas companies, Oil companies						
SA17	2.4.2 Develop funding proposals for 2.4.1	Finance	RDIS, Energy division, MNREM, MAF, MWCSD, NUS, EPC,	825				825	
SA18	1.2.2 (2.1.4) Develop an Energy Bill - RE component	Finance	MWCSD, NUS, EPC, SWA, consultants Energy Division, energy stakeholders, MNREM,		1,000	1,025		2,025	
SA19	Development of standards	Policy & Regulation	AG, consultants  SAME, private sector,	1,500				1,500	
	required to meet GHG emission reduction requirements and use of RE for local manufacture and		energy stakeholders, MNREM, EPC, MWTI, MWCSD						
SA20	export productions - trainings dissemination	Policy & Regulation				1,000	1,000	2,000	
			Energy Division, energy stakeholders, MNREM, MAF, MWTI, MESC, RDIS, NUS, EPC, SSC,						
	2.2.1 (4.1.4, 4.2.3, 4.4.1, 5.2.1, 5.3.1)National energy awarenss	Info &	SAA, STA, Oil companies, gas companies, SUNGO,						
SA21	campaign day Sub-total Samoa	Awareness	SAME, COC, MEDIA	33,325	10,000 <b>18,000</b>	27,075	20,100	10,000 98,500	
									A -4 d 4 ifil
	Feasibility study of economic of scale of production/use of coconu	1							be used to power generators so
SI3	Feasibility study of economic of	Market	MME, Italian Gov't						A study to see if coconut oil car be used to power generators so that they can be used in rural communities as an extension for from the schools and clinics

	Feasibility study for mini hydropower								
SI5	plants on Rori (Malaita) under Rural Electrification Framework	Market	SIEA, MME, SOPAC	2,500	2,500	2,500		7,500	To kick-start the Rori Mini-hydro scheme
					<i>2</i>	20.00			High priority. To produce a standardised rural electrification tariff calculation guidelines, and tariff calculation templates that provide pro-forma methods of calculating tariffs using costs based on generation technology
SI6	RE Electricity Pricing Study	Finance	MME, SIEA, SOPAC	2,500	2,500	2,500		7,500	location and other factors, as There are potential sources and sites on the 7 main islands of
SI8	RE surveys and assessments for hydro, wind and solar	Technical	MME,SIEA,SOPAC			2,000	2,000	4,000	the solomonos for hydro and almost all populated rural communities on the coastal areas of the islands for solar
SI11	Support to investment Development Projects	Market	SIG, MME, SIEA, Private Sector	2,000	2,000	2,000	1,000	7,000	
SI12	RE Conservation and Efficiency Programmes	Technical	MME, SIEA, SIG, SOPAC	300	500	500	200	1,500	
SI14	Setup of RE Unit	Institutional	SIG, SIEA, (REEEP?)	2,000	2,000	2,000	2,000	8,000	
			MME, SIEA,						
SI16	Energy Supply/Demand Studies Feasibility study of economic of scale of production/use of coconur oil /bio-fuel as fossil fuel	Policy	(SOPAC?)	300	1,000	1,000	200	2,500	
SI17	substitute in power generation in outer islands SIEA power stations.	Market	MME, SIEA, Private or SOPAC		1,000	2,000	2,000	5,000	
<b>5</b>	Feasibility study of solar Grid interactive system for National Referal, Lata, Kira Kira, Auki, Malu'u,Gizo, Tulagi and Helena Goldie Hospitals				1,000	2,000	2,000	2,000	
SI18		Market	MME, SIEA, Private		2,000	2,000	1,000	5,000	
	Micro Biofuel Enterprise		Frelin Enterprise &						
SI20	Development	Market	Fred Conning		2,000	2,000	2,415	6,415	
SI21	Rural Communities Solar PV lightings/water pumping projects feasibility studies and funding	Market	MME, SITAFE, Private Solar PV Companies			2,000	2,000	4,000	
SI22	Solar system grid connect at SITAFE	Technical	Choice Electrics, Australia, SITAFE		2,500	2,500	2,500	7,500	
SI24	Technical Support to the SITAFE Renewable energy library centre	Awareness	Australia (OTEN - NSW TAFE)		2,000			2,000	
	Micro hydropower prefeasibility study at vaious sites at Atoifi Hosp., Kounabusu (Kwaio), Manawai (upgrade), Masupa'a, River Side and Rara village, all in		PELENA (Renewable						
SI26	Malaita	Market	Company)		2,000	2,000	1,000	5,000	
S127	Riofuel Study & Daysloomens	Market	Pro Solution, (SOPAC?)		1 000	1.000	1.000	3,000	
SI27	Biofuel Study & Development Sub-total Solomon Is	iviarket	(SUPAC!)	13,600	1,000 <b>27,000</b>	1,000 <b>26,000</b>	1,000 <b>17,315</b>	3,000 83,915	

		1							
TO1	Joint annual committee meetings  Technical evaluation of the solar installations	Institutional Technical	EPU, HSES & NFSES EPU, HSES & NFSES	6,000 3,000				6,000	The joint annual meetings should then lead to the establishment of the National Steering Committee. Ha'apai's, installed in 2002, is to be evaulated next year while Niua's, installed in 2006, will be in Year 2 and both on Year 5. Training is to be part of the JICA solar water pumping project for
тоз	Training of village water committees and island technicians	Awareness	EPU			6,000		6,000	Niuatoputapu. 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		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.
то11	Energy Legislation Review	Policy	EPU & Crown Law & Consultant				20,000		A follow-up to the RE Bill. To review existing energy-related legislations and whether thay can all be merged into an Energy Bill. To sites will be selected based on the Vergnet wind atlas project
TO12	Wind resources assessments	Technical	EPU	2,500	2,500	2,500	2,500	10,000	which will be completed by Sept 07. A development Licence has been granted to WM. Study is to look at
ТО14	Biofuel feasibility study	Market	EPU & Waste Mgmnt Ltd	10,000	10,000			20,000	the feasibility of the distilling operations.
TO15	Demonstration of the viability of copra oil for remote islands elecrification	Technical Financial	EPU and Island Community				5,000	5,000	To begin after the exposure visit to Vanuatu and other PICs. To include production of a RE documentary, establishment of an RE information centre at the EPU
									amd the District Solar Energy Societies, a monthly radio programme and an annual RE
TO17	RE Awareness Programme	Awareness	EPU	1,500	1,500	1,500	1,500	6,000	award programme.
-						40.000	00.000		1 0
	Sub-total Tonga			23,000	29,000	10,000	29,000	91,000	
TV3	Sub-total Tonga  Dissemination of biogas technology introduced by PIEPSAP	Awareness	Alofa Tuvalu			<b>10,000</b> 5,000	<b>29,000</b> 5,000		
TV3			Alofa Tuvalu TEC					91,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIEPSAP- funded base tariff review study.
	introduced by PIEPSAP  Support to TEC's outer island grid	Technical		23,000	29,000	5,000	5,000	91,000 10,000 20,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIEPSAP.
TV4	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology	Technical Institutional	TEC	23,000	29,000	5,000	5,000 5,000	91,000 10,000 20,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands	Technical Institutional	TEC	23,000 5,000 20,000	29,000	5,000 5,000	5,000 5,000 25,000 6,250	91,000 10,000 20,000 25,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4 TV5 TV6	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan  Strategic Action plan	Technical  Institutional  Policy	TEC	<b>23,000</b> 5,000	29,000	5,000	5,000 5,000 25,000	91,000 10,000 20,000 25,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
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TV4 TV5 TV6 TV7	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan  Substituted Turville  Vanuat Hydropower Resource Mapping Feasibility Study of the Tasiriki River Hydro resource potential	Technical Institutional Policy Institutional	TEC TEC Energy Energy Unit, Consultant	23,000 5,000 20,000	<b>29,000</b> 5,000	5,000 5,000 6,250 16,250	5,000 5,000 25,000 6,250 41,250	91,000 10,000 20,000 25,000 20,000 12,500 87,500	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4 TV5 TV6 TV7	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support insplementation of Policy and Strategic Action plan  Sub-total Tuvalur  Vanuatu Hydropower Resource  Mapping  Feasibility Study of the Tasiriki River hydro resource potential  Review of the Rural Electrification  Policy	Technical Institutional Policy Institutional Market	TEC  Energy  Energy Unit, Consultant EU Energy Unit, NACCC, SOPAC	23,000 5,000 20,000	<b>29,000</b> 5,000	5,000 5,000 6,250 16,250 5,000	5,000 5,000 25,000 6,250 41,250 5,000	91,000 10,000 20,000 25,000 20,000 12,500 87,500	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5  TV6  TV7  VU5  VU6	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan  Sub-dotal Tuvalu  Vanuatu Hydropower Resource Mapping  Peasibility Study of the Tasiriki Riven hydro resource potential  Review of the Rural Electrification  Policy  Renewable Energy and Energy  Efficiency Programmes	Technical Institutional Policy Institutional Market Technical	TEC  Energy  Energy Unit, Consultant EU  Energy Unit, NACCC,	23,000 5,000 20,000	29,000 5,000	5,000 5,000 6,250 16,250 5,000	5,000 5,000 25,000 41,250 5,000	91,000 10,000 20,000 25,000 20,000 12,500 87,500 20,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5  TV6  TV7  VU5  VU6  VI11	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan  Strategic Action plan  Substatal Tavalia  Vanuatu Hydropower Resource Mapping  Hydropower Resource Mapping  Review of the Rural Electrification Policy  Renewable Energy and Energy  Efficiency Programmes  Review of the 2002 Talise Mini Hydro Feasibility Study	Technical  Institutional  Policy Institutional  Market  Technical  Policy	TEC  Energy  Energy Unit, Consultant EU  Energy Unit, NACCC, SOPAC Energy Unit, SOPAC,	23,000 5,000 20,000	29,000 5,000	5,000 5,000 6,250 16,250 5,000 10,000 7,000	5,000 5,000 25,000 41,250 5,000	91,000 10,000 20,000 25,000 20,000 12,500 87,500 20,000 20,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5  TV6  TV7  VU5  VU6  VI11  VU12	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan  Vanuat Hydropower Resource Mapping Feasibility Study of the Tasiriki Riven bydro resource potential  Review of the Rural Electrification Policy Renewable Energy and Energy  Efficiency Programmes  Efficiency Programmes	Technical Institutional Policy Institutional Market Technical Policy Awareness	TEC  Energy  Energy Unit, Consultant Energy Unit, NACCC, SOPAC Energy Unit, SOPAC, UNELCO Energy Unit, Consultant Fisheries, Consultant	23,000 5,000 20,000	5,000 5,000	5,000 5,000 6,250 16,250 5,000 10,000 7,000 2,000	5,000 5,000 25,000 41,250 5,000	91,000 10,000 20,000 25,000 20,000 12,500 87,500 20,000 20,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5 TV6 TV7  VU5 VU6 VI11 VU12 VU14	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan Substotal Tuvalu Vanuatu Hydropower Resource Mapping Feasibility Study of the Tasiriki Rivet hydro resource potential hydro resource potential Review of the Rural Electrification Policy Renewable Energy and Energy Efficiency Programmes Review of the 2002 Talise Mini Hydro Feasibility Study Study of the viability of changing fishery freezers to run on RE Community Awareness	Technical  Institutional  Policy Institutional  Market Technical  Policy Awareness Market	TEC  Energy  Energy Unit, Consultant EU Energy Unit, NACCC, SOPAC Energy Unit, SOPAC, UNELCO Energy Unit, Consultant Fisheries, Consultant VANREPA, local Theatre Group	23,000 5,000 20,000	5,000 5,000	5,000 5,000 6,250 16,250 5,000 10,000 7,000 2,000 9,000	5,000 5,000 25,000 41,250 5,000	91,000 10,000 20,000 25,000 20,000 11,500 20,000 20,000 2,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5  TV6  TV7  VU5  VU6  VI11  VU12  VU14  VU16	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy ans Strategic Action plan Surategic Action plan Sub-Islaid Tuvala  Vanuatu Hydropower Resource Mapping Feasibility Study of the Tasiriki Riven hydro resource potential Review of the Rural Electrification Policy Renewable Energy and Energy Efficiency Programmes Efficiency Programmes Study of the viability of changing fishery freezers to run on RE  Community Awareness Identification & Promotion of incomegeneration activities	Technical  Institutional  Policy Institutional  Market  Technical  Policy  Awareness  Market  Technical	TEC  Energy  Energy Unit, Consultant EU Energy Unit, NACCC, SOPAC Energy Unit, SOPAC, UNELCO Energy Unit, Consultant Fisheries, Consultant Fisheries, Consultant	23,000 5,000 20,000	5,000 5,000 9,000	5,000 5,000 6,250 16,250 5,000 10,000 2,000 9,000 11,500	5,000 5,000 25,000 6,250 41,250 5,000 7,000	91,000 10,000 20,000 25,000 20,000 12,500 87,500 20,000 20,000 2,000 18,000 10,000 3,000 3,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5  TV6  TV7  VU5  VU6  VI11  VU12  VU14  VU16  VU17	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy and Strategic Action plan  Substituted Training Vanuatu Hydropower Resource Mapping Feasibility Study of the Tasiriki River hydro resource potential Review of the Rural Electrification Policy Renewable Energy and Energy Efficiency Programmes Review of the 2002 Talise Mini Hydro Feasibility Study Study of the viability of changing fishery freezers to run on RE  Community Awareness Identification & Promotion of income	Technical  Institutional  Policy Institutional  Market  Technical  Policy  Awareness  Market  Technical  Awareness	TEC  Energy  Energy Unit, Consultant EU Energy Unit, NACCC, SOPAC Energy Unit, SOPAC, UNELCO Energy Unit, Consultant Fisheries, Consultant VANREPA, local Theatre Group VANREPA, Peace	23,000 5,000 20,000	5,000 5,000 9,000	5,000 5,000 6,250 16,250 5,000 7,000 2,000 9,000	5,000 5,000 25,000 6,250 41,250 5,000 10,000 7,000	91,000 10,000 20,000 25,000 20,000 12,500 37,500 20,000 2,000 18,000 10,000 3,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution
TV4  TV5  TV6  TV7  VU5  VU6  VI11  VU12  VU14  VU16  VU17	introduced by PIEPSAP  Support to TEC's outer island grid connected renewable energy projects  Study and establishment of a RE Unit at TEC  Training of TEC Outer Islands Supervisors on RE Technology Support implementation of Policy ans Strategic Action plan Surategic Action plan Sub-Islaid Tuvala  Vanuatu Hydropower Resource Mapping Feasibility Study of the Tasiriki Riven hydro resource potential Review of the Rural Electrification Policy Renewable Energy and Energy Efficiency Programmes Efficiency Programmes Study of the viability of changing fishery freezers to run on RE  Community Awareness Identification & Promotion of incomegeneration activities	Technical  Institutional  Policy Institutional  Market Technical  Policy Awareness Market Technical Awareness Market	TEC  Energy  Energy Unit, Consultant EU  Energy Unit, NACCC, SOPAC  Energy Unit, SOPAC, UNELCO  Energy Unit, Consultant Fisheries, Consultant VANREPA, local Theatre Group VANREPA, Peace Corps	23,000 5,000 20,000	5,000 5,000 9,000	5,000 5,000 6,250 16,250 5,000 10,000 2,000 9,000 11,500	5,000 5,000 25,000 6,250 41,250 5,000 7,000	91,000 10,000 20,000 25,000 20,000 12,500 87,500 20,000 20,000 2,000 18,000 10,000 3,000 3,000	Studies of wind potential and solar hybrid system. Also includes exposure visits to RE development projects in Vanuatu and other PICs A follow-up to the PIESAP funded base tariff review study. Unit will also look at loss reduction, DSM and fuel substitution

Grand Total for Year 1 Country Activities:	177,812	178,000	237,777	299,665	893,254
PMO Costs		<del>-</del>	<del>-</del>	<del>-</del>	<u>.</u>
International Consultants (PM)	25310	25310	25310	25310	101,240
Local Consultant - PA	2500	4500	4500	4500	16,000
Local Consultant - APA	3000	9000	6000	6000	24,000
Administration Fess	4500	4500	4500	4500	18,000
Contractual Services - Ind	1250	1250	1250	1250	5,000
Travel, Audits and Reviews	10000	15000	5000	5000	35,000
Contractual Services - Co	1250	1250	1250	1250	5,000
Equip and Furniture	500	500	500	500	2,000
Comm & Audio Equip	750	750	750	750	3,000
Supplies	500	1000	1000	706	3,206
Info Tech Equip	3000	3000	3000	3000	12,000
Audio Visual and Print Prod	500	500	500	500	2,000
Total for PMO	53,060	66,560	53,560	53,266	226,446
ORANID TOTAL FOR 2000	000.070	044.500	004.007	050 004	4 440 700