

**PIGGAREP TECHNICAL VISITS AND WORKSHOP TO SHARE BEST
PRACTICES IN RENEWABLE ENERGY, PORT VILA AND SANTO,
VANUATU: 3rd – 7th AUGUST 2009**

In the PIGGAREP work plan for 2009, several PICs have activities relating to a technical visit to biofuel development project sites in the PICs. Some have expressed their specific needs as follows:

The Fiji Department of Energy will incorporate the findings of the Technical Visit in the design and implementation of pilot and mainstream projects in the use of CNO as a fuel for diesel automobiles and ships as well as diesel generating sets. Several pilot projects are planned for 2009 and 2010.

This visit will also make a direct contribution to the planning of the large scale implementation of production and use of CNO as a fuel that will form a part of the 5-year Biofuels Development Action Plan that is presently being drawn up the Fiji Dept of Energy and due to begin in 2010. Utilizing information gained from the Vanuatu visit submissions will be made to Cabinet after the visit for the full utilisation of the Savusavu Copra Milling facility locally as an export substitution initiative to replace imported fossil fuel with local coconut oil.

Below are some specific areas that the Samoa Electric Power Corporation is interested in if considered for the Technical visit to Vanuatu.

- Coconut oil for Electricity Generation – This includes all aspects of the coconut oil industry and how it is being used as a fuel in diesel gensets. Specific areas of interest are
 - Methods currently used to produce Coconut oil;
 - Government involvement in promotion of coconut oil as a biofuel;
 - technical specs for oil being used;
 - warranty and implications of coconut oil usage on machinery & other equipment;
 - retrofitting of equipment;
 - supply contracts with suppliers relative to world oil prices;
 - usage of CNO for vehicles – impacts (if any) ;
 - use of waste products from coconut oil production

- Wind Energy
 - outcome of feasibility study ;
 - size of wind farm;
 - equipment supplier;
 - cost;
 - plans for expansion to other islands;

- Uses of other R.E technologies for power generation
- Community ownership of RE projects – micro/mini hydro, wind, etc
- Biomass Gasification;
- Solar;
- distributed generation - RE projects;

The Solomon Is Government (Cabinet) approved the setting of a Task force to spearhead the Bio-fuel development Program in March this year (2009). A Task Force was appointed already which comprise stakeholders from relevant Government Ministries like the Ministry of Agriculture, Ministry of Commerce, Ministry of Environment and Conservation and Ministry of Planning and Aid Coordination; Statutory bodies (Commodity Export Marketing Authority); SIEA; private sector and the Central Bank of Solomon Islands.

This Task Force will convene its inception meeting in two weeks time, upon which another Cabinet Paper will be presented before the Cabinet on the full mandate of the Task Force, which will reflect upon the final budget allocation for the Bio-fuel Program.

TEC/Energy department are keen on further developing the biofuel technology in Tuvalu and have developed a funding proposal on this area. The Power Utility UNELCO has been successful in this technology and learning the experiences they went through and the logistics behind this is very important for the successful implementation of biofuel technology in Tuvalu. Not only the use of biofuel for power generation but also in the transport sector.

Learning all the experiences of wind, solar PV and biofuel would enable us to have the knowledge to maintain our CDM projects and also enable us to identify the most potential resources for RE projects in Tuvalu.

DRAFT PROGRAMME

MONDAY 3rd AUGUST		
0900 – 0905	Welcome by PIGGAREP	Solomone Fifita
0905 – 0910	Prayer	Benjamin Jesse
0910 – 0915	Opening Address	Acting Director General, Min of Land and Energy
0915 – 0945	<i>Group Photo & Morning Tea</i>	
0945 -1015	An introduction to CDM	Solomone Fifita
1015 – 1100	The Fiji Electricity Authority’s CDM project	Uate Buitamaseva
1100 -1130	The IUCN EESLI	Anare Matakiviti
1130 - 1200	Fiji’s Biofuel Development	Ifereimi Dau
1200 - 1230	SOPAC’s Nadave Biofuel Project	Arieta Gonelevu
1230 – 1330	<i>Lunch</i>	
1330 – 1700	Visit the TAGABE oil mill and power station at Port Vila. Will involve a lecture at the UNELCO conference / training room to be followed by a tour of the biodiesel production facilities, the generator and the control room. Tour will end at the conference / training room again for a debriefing.	UNELCO (Francois PY & John DAVIS)

END OF DAY 1**TUESDAY 4th AUGUST**

0700 - 1000	Team leave for Santo, Check into Apex Garden Motel	Benjamin Jesse Participants
1000 – 1230	Visit the Port Orly 100% biofuel project. Will involve a lecture and to be followed by a tour of the facilities, the generator and the control room and visit to homes and discussions with locals. Tour will end with a group debriefing.	UNELCO
1230 - 1330	Lunch	
1330 – 1700	Continue at Port Orly and visit some of the coconut plantations.	
END OF DAY 2		

WEDNESDAY 5th AUGUST

0830 – 0900	UNELCO's Copra oil strategy	UNELCO (Willie KARIE)
0900 - 1230	Visit the Sarakata Hydro power plant.	UNELCO (Willie KARIE and Patrice DELAVEAU)
1230 - 1330	Lunch	
1330 – 1700	Visit the Vanuatu Coconut oil products (copra oil mill), the copra drying and transportation facilities.	VCPL
END OF DAY 3		

THURSDAY 6th AUGUST

	Rehabilitation of the Mango and Moúngaóne solar PV projects in Tonga	Ófa Sefana
	Experiences Fiji DoE's biogas development programme	Ifireimi Dau
0900 - 1100	Team Depart for the Santo Airport	
1125 - 1230	Team leave for Port Vila, Check into hotel, etc	
1230 - 1330	Lunch	
1330 – 1700	Tour of the biogas, solar home systems, gasifier and wind monitoring sites.	Benjamin Jesse
END OF DAY 4		

FRIDAY 7th AUGUST

0830 – 1100	Visit the Devil's Point wind power project. Will involve a lecture at UNELCO and to be followed by a tour of the project site and wind power installations facilities. Tour will end with a group debriefing.	UNELCO
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1100 - 1130	Debriefing and presentations on UNELCO's renewable projects and policy.	UNELCO (John Chaniel)
1130 -1200	Experiences from FEA's Wind Farm project at Butoni, Singatoka	FEA (Uate Buitamaseva)
<i>1200 - 1330</i>	<i>Lunch</i>	
1330 – 1400	Experiences from the Tuvalu grid-connected PV project	TEC (Mafalu Lotolua)
1400 – 1430	Current management of SIEA and its RE development plans	SIEA (Dadily Posala)
1430-1500	EPC's RE developments	EPC (Wairarapa Young)
1500 - 1530	PUB's RE developments	PUB (Kiriati Birita)
1530 – 1600	PIGGAREP developments and where to from here	Solomone Fifita
END OF DAY 5		

SATURDAY 8th & SUNDAY 9th AUGUST: PARTICIPANTS DEPART PORT VILA
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Since the Tuvalu participant will be in Suva on Friday July 30 and Mon Aug 10 on the way to and from Vila, separate arrangements have been made to visit relevant project sites in Suva (with Ifireimi's / DoE's and Arieta's / SOPAC's assistance).

Since the Kiribati participant will be in Nadi on Friday July 30 and Mon Aug 10 on the way to and from Vila, separate arrangements have been made to visit relevant project sites in the West (with Uate's / FEA's assistance).

Since the Solomon Is participants will still be in Port Vila until Tuesday August 11, separate arrangements are being made to visit UNELCO, Oil Mill, etc on Monday 10 August (with Jesse's and UNELCO's assistance).