

UNLOCKING MINI-GRIDS FOR SUSTAINABLE DEVELOPMENT: A REGIONAL HANDS-ON TRAINING FOR THE PACIFIC ISLANDS Heilala Conference Room, SPC Narere Campus: Suva, Fiji: 26 – 30 June 2023

Draft Agenda Items

Training Agenda Overview: Hybrid Renewable Energy Mini-Grids

DAY 1

THEME : How to establish an enabling framework for the promotion of mini-grids

	TOPIC	PRESENTER	STATUS
OPENING			
0830 - 0900	Registration		
0900 - 0910	Welcome – Paea Tau’aika , PCREEE		
	Statement by UNIDO (Virtual)		
	Opening Remarks by Rhonda Robinson, Director, Geoscience Energy and Maritime Division, SPC		
	Group Photo		
Session 0	Introduction		
0930 - 0945	Course Introduction	Roger Sallent (TTA)	
0945 – 1015	Mini-grid introduction	Roger Sallent (TTA)	
1015 – 1045	MORNING TEA		
Session 1	Electrification Planning		
1045 - 1145	1.1 Electrification planning. Description of the process and state of the art geospatial tools.	Roger Sallent (TTA)	
1145 – 1230	1.2 SPC Geoinformatics programme - WB/PCRAFI 2	Thompson Auri, SPC	
1230 – 1330	LUNCH		
Session 2	Regulatory Framework		
1330 – 1415	2.1 Regulation of mini grids. Presentation of different approaches, elements to be covered, and key references.	Roger Sallent (TTA)	

Commented [SF1]: Akuila is one leave, Acting on leave too. Solomon on stand-by.

Commented [SF2]: Depends on the contents but SPC has a Geoinformatics programme and we can ask them for a presentation on a relevant subject.

Commented [TT43R2]: @solomone: it would be an excellent idea!

Commented [SG4]: Good suggestion Solomonone.
@Roger: Pls. suggest from your side. It could be a mixture overview between Homer Pro, Retscreen Expert and PV Syst, etc.:
The challenge is that all these tools are based on paid subscription.

Session 3		Mini-grid economics	
1415 - 1500	3.1 Tariff definition. Tariff definition, types of tariffs, tariff structures, ability to pay and willingness to pay analysis.		
1500 - 1530	AFTERNOON TEA		
1530 – 1615	3.2 Subsidies. Introduction of the different types of subsidies typically used in mini-grid projects.		
	AIFFP off-grid energy grants program	Nicholas Murphy	
Group discussion			
1615 – 1700	• Group Discussion	Roger Sallent (TTA)	
END OF DAY 1			

DAY 2

THEME: Key technical aspects for mini-grid design

	TOPIC	PRESENTER	STATUS
Session 4	Mini-grid Preliminary Assessments		
0900 - 0945	4.1. Demand assessment. How to characterize the demand in unelectrified communities.	Alberto Jerónimo (TTA)	
0945 - 1030	4.2. Resource assessment. Presentation of tools and resources to characterize the energy resource.	Alberto Jerónimo (TTA)	
1030 - 1100	MORNING TEA		
1100 - 1230	4.3. Feasibility analysis. Key aspects for the preparation of technical and financial feasibility assessments for mini-grids.	Alberto Jerónimo (TTA)	
1230 - 1330	LUNCH		
Session 5	Mini-Grid Design		
1330 - 1500	5.1. Engineering design. Recommendations for the design of mini-grids.	Alberto Jerónimo (TTA)	
1500 - 1530	AFTERNOON TEA		
1530 - 1615	5.2. HOMER. Basics on the use of HOMER Pro for the system sizing.	Alberto Jerónimo (TTA)	
	Group discussion		
1615 - 1700	• Group Discussion	Alberto Jerónimo (TTA)	
END OF DAY 2			

DAY 3:

THEME: Mini-grid project implementation and operation

	TOPIC	PRESENTER	STATUS
Session 6	Mini-grid Business Models		
0900 – 1000	6.1. Business Models. Discussion on the role of the public and the private sectors, and potential Public-Private Partnerships (PPP).	Roger Sallent (TTA)	
1000 – 1030	MORNING TEA		
1030 – 1130	6.2. Procurement. Basics on procurement policies, templates, and procedures	Roger Sallent (TTA)	
	Group discussion		
1130 – 1230	Group Discussion	Roger Sallent (TTA)	
1230 – 1330	LUNCH		
Session 7	Minigrid Installation and O&M		
1330 – 1500	7.1. Installation. Best practices and field recommendations for the installation of mini-grids.	Alberto Jerónimo (TTA)	
1500 - 1530	AFTERNOON TEA		
1530 – 1615	7.2. Operation & Maintenance. Metering, control, maintenance routines.	Alberto Jerónimo (TTA)	
	Group discussion		
1615 – 1700	• Group Discussion	Alberto Jerónimo (TTA)	
END OF DAY 3			

DAY 4:

THEME: PICs Case Studies and Site Visits

	TOPIC	PRESENTER	STATUS
Session 8	Mini-grid Business Models		
0900 – 1000	Fiji	Jonacani N.Veiqati	
	FSM	Albert Francis	
	Kiribati	Teweiariki Tebuka	
1000 – 1030	MORNING TEA		
1030 – 1130	PNG	Samuel Petau	
	Solomon Is	Jerry Willie Zutu	
	Tonga	‘Ofa Sefana	
	Group discussion		
1130 – 1230	Tuvalu	Mafalu Lotolua	
	Vanuatu	Julius Mala	
1230 – 1330	LUNCH		
Session 9	Site Visit		
1330 – 1700	<ul style="list-style-type: none"> • Coca Cola solar PV grid-connected system • Kundan Singh EV charging, E-taxi, etc • USP PV system • More sites to be confirmed 		
END OF DAY 4			

DAY 5:

THEME: Energy Projects Briefing & Wrap Up

	TOPIC	PRESENTER	STATUS
Session 8	Mini-grid Business Models		
0900 – 1000	- Clean Energy Access for	- Solomone Fifita	

	<p>Remote Pacific Island Countries – CLEARPICs</p> <ul style="list-style-type: none">- The SPC Flagship Integrated Programme on Climate Change	<ul style="list-style-type: none">- CCES Division	
1000 – 1030	MORNING TEA		
1030 – 1130	<ul style="list-style-type: none">- PACWES- Australian Infrastructure Financing Facility for the Pacific (AIFFP)- Energy and Gender	<ul style="list-style-type: none">- Nixon Kua- Nicholas Murphy- Mereseini Rakuira [to be confirmed]	
Group discussion & Wrap Up			
1130 – 1230	Where to from here?	Paea Tau’aika	
1230 – 1330	LUNCH		
END OF DAY 5 & END OF TRAINING			

Commented [SF5]: May move to Day 2 since he is leaving early.