

## **Agenda**

### **Accelerated Renewable Energy Deployment on Islands with Emphasis on the Pacific Islands**

**26-28 October 2011**

FINAL

#### *Background*

Accelerating renewable energy deployment can enhance energy access and mitigate global warming in Small Island Developing States (SIDS). Pacific island countries face major challenges in energy security, energy access, and CO<sub>2</sub> mitigation. Fossil fuel prices are high, supply routes difficult, energy markets relatively small resulting in high cost and limited interest of suppliers. Some rural areas still witness low energy access.

Large potential in renewable energy resources such as solar, wind, and ocean have driven some islands to engage actively in renewable energy deployment as a viable solution to the specific conditions in the energy sector. Despite some efforts, the prospects to meet growing energy demand and generate changes in the energy mix are limited. A number of challenges remain such as estimating resource potential data, selecting suitable technology solutions, introducing enabling policy, setting up an appropriate institutional framework and building capacity.

IRENA has a strong mandate to take the lead at the global, regional, and national level for accelerating renewable energy uptake as a solution to national and regional energy strategies. One of its missions is to support and assist countries promoting renewable energy by providing them the means for an accelerated renewable energy technology uptake tailored to their specific needs, considering national conditions in resources endowment as well as social and economic factors. IRENA can also support the implementation of existing initiatives by playing a coordinating role to ensure an integrated approach at the regional level and providing a platform for harmonized implementation strategies of the renewable energy technologies in the region. IRENA is engaged in the development and execution of the Tonga Energy Road Map (TERM) and will continue to assist in the area of technology assessments.

#### *Objective*

The goal of the workshop is to discuss and identify the specific needs and challenges in deploying renewable energy technology on the Pacific islands, assessing the technology needs and gaps. Key players in the field will be invited from around the world to present state of the art knowledge on renewable energy technology deployment on islands, with focus on the Pacific islands. Possible areas of contribution where IRENA can support and assist in the region will also be discussed. The outcome of the workshop will provide inputs for the upcoming IRENA Renewable Energy Readiness Assessment and policy advisory and capacity building strategies in the region.

### Output

Output: Workshop conclusions including the main discussion points regarding the needs and gaps of the current energy situation, the role of IRENA, practical recommendations, and next steps.

### Partners

Australian Government, World Bank

### Venues

**Date:** Wednesday 26 - Friday 28 October, 2011

**Location:** Sydney

## Agenda

Wednesday 26 October		
8:30 – 9:00	Registration/coffee	
9:00 – 9:10	<a href="#">Opening/welcome</a>	Dolf Gielen, Director, IRENA Innovation and Technology Centre (IITC)
9:10 – 9:20	Welcome speech by the Australian Government	Martin Hoffman, Deputy Secretary, Department of Resources Energy and Tourism, Australian Government
9:20 – 9:30	Welcome speech by the World Bank	Charles Feinstein, SD Leader for Timor-Leste, Papua New Guinea and the Pacific Islands Sustainable Development Department East Asia and the Pacific Region (EASNS), WB
9:30 – 9:40	Renewable energy strategies for Pacific islands: the IRENA approach	Dolf Gielen, IITC
9:40 – 9:55	Coffee break	
<b>Session 1: Renewable energy deployment experiences on global islands</b>		<b>Moderator: Dolf Gielen, IITC</b>
9:55 – 10:20	<a href="#">Case Study – Caribbean Islands</a>	Philip Weech, Director, Best Commission, Ministry of the Environment, Bahamas
10:20 – 10:45	<a href="#">Case Study - Cape Verde Islands</a>	David Vilar Ferrenbach, ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)

10:45 – 11:10	<a href="#">Case Study - Maldives</a>	Ibrahim Nashid, Chief Engineer, Renewable Energy Maldives Pty. Ltd.
11:10 – 11:35	<a href="#">Case Study – Philippines</a>	Laurie Navarro, Chief of Party Alliance for Mindanao and Multi-Regional/Rural Energy Development (AMORE 3) Program
11:35 – 12:15	Questions and Discussion	All
<b>12:15 – 13:15</b>	<b>LUNCH</b>	
<b>Session 2: Renewable energy deployment in Pacific islands</b>		<b>Moderator: Peter Johnston, Managing Director, Environmental &amp; Energy Consultants, Ltd.</b>
13:15 – 13:45	<a href="#">Overview of energy systems and electrical utilities in the Pacific Region</a>	Andrew Daka, Executive Director, PPA
13:45 – 14:15	<a href="#">Accelerating renewable energy deployment in the Pacific SIDS</a>	Solomone Fifita, Deputy Director for energy, SPC
14:15 – 14:45	<a href="#">Lessons learned and recommendations based on UNDP supported Pacific national and regional energy projects</a>	Thomas Jensen, UNDP
14:45 – 15:00	Questions and Discussion	All
<b>15:00 – 15:15</b>	<b>Coffee break</b>	
15:15 – 15:45	<a href="#">Renewable energy project implementation</a>	Sili'a Kilepoa Ualesi, PIGGAREP Project Manager, SPREP
15:45 – 16:15	<a href="#">Lessons learned and the way forward – WB</a>	Wendy Hughes, Senior Energy Specialist, WB
16:15 – 16:45	<a href="#">Lessons learned and the way forward – Australia</a>	Sara Clough, Deputy CEO, ACRE, DRET Julie Delforce, Department of Resources, Energy and Tourism (DRET)
16:45 – 17:15	<a href="#">Lessons learned and the way forward – New Zealand</a>	Joseph Mayhew, Development Manager – Energy, New Zealand Aid Programme, Ministry of Foreign Affairs and Trade
17:15 – 17:30	Questions and Discussion	All
17:30 – 18:00	Panel Discussion	Presenters for Session 2
18:00 – 18:15	Session Summary	

18:15	Closure of the day	
<b>18:50</b>	<b>Dinner hosted by the Government of Australia</b> (please see a separate information)	
<b>Thursday 27 October</b>		
<b>Session 3: Renewable energy technology solutions in Pacific Islands</b>		<b>Moderator: 'Akau'ola, Special Advisor to the Prime Minister of Tonga</b>
8:30 – 9:00	<a href="#">Renewable energy technology options in Pacific islands</a>	Herbert Wade, IRENA
9:00 - 9:30	<a href="#">Cost analysis of renewable energy technology in the region</a>	Katerina Syngellakis, IT Power
9:30 – 9:45	Questions and Discussions	All
<b>9:45 – 10:00</b>	<b>Coffee break</b>	
10:00 - 10:30	<a href="#">Renewable energy technologies solutions – institutional issues for renewable energy deployment (solar home systems)</a>	Terubentau Akura, Managing Director, DS Power
10:30 – 11:00	<a href="#">Renewable energy technologies solutions – Micro grid</a>	Bruce Clay, Managing Director, Clay Energy
11:00 – 11:30	<a href="#">Renewable energy technologies solutions – Grid connected systems</a>	Peter Konings, President, Sustainable Energy Industry Association of the Pacific Islands (SEIAPI)/ APEG
11:30 – 12:00	<a href="#">Renewable energy technologies solutions – Storage</a>	Peter Lilienthal, CEO, Homer Energy
12:00 – 12:15	Questions and Discussions	All
<b>12:15 – 13:15</b>	<b>LUNCH</b>	
<b>Session 4: Facing challenges and the way forward</b>		<b>Moderator: Solomone Fifita, Deputy Director for Energy, SPC</b>
13:15 – 13:45	<a href="#">Finance issues for renewable energy deployment</a>	David Iro Fulaga, Managing Director, Willie's Electrical and Solar Power
13:45 – 14:15	<a href="#">Institutional issues for renewable energy technology deployment on islands</a>	Peter Johnston, Environmental & Energy Consultants, Ltd.
14:15 – 14:45	<a href="#">Installing and maintaining renewable energy technologies</a>	Atul Raturi, Head, School of Engineering and Physics, USP
14:45 – 15:00	Questions and Discussions	All
<b>15:00 – 15:15</b>	<b>Coffee break</b>	

15:15 – 15:30	<a href="#">Supporting Regional Policy on Energy and Renewable Energy</a>	Scott Hook, Economic Infrastructure Adviser, Pacific Islands Forum Secretariat (PIFS)
15:30 – 16:00	Designing strategies for renewable energy implementation on the Pacific Islands	Dolf Gielen, IITC
16:00 – 16:45	Identifying the needs and gaps for renewable energy technology uptake on the Pacific Islands	Group discussion
<b>Session 5: Wrap up and General Discussion for the Day 1 and 2</b>		
16:45 – 17:15	Wrap up of the Day 1 and 2 of the workshop and general discussion on the topics	Dolf Gielen, IITC
17:15 – 17:30	Next steps for IRENA strategy support	
17:30	Closure of the day	
<b>19:00</b>	<b>Dinner hosted by IRENA</b> (please see a separate information)	
<b>Friday 28 October</b>		
<b>Session 6: Renewable Energy Readiness Assessments</b>		<b>Moderator: Rupeni Mario, North REP Team Leader, SPC</b>
08:30-09:00	<a href="#">Introduction to IRENA Renewable Energy Readiness Assessment for Pacific region</a>	Hugo Lucas, Director, Policy Advisory Services and Capacity Building, IRENA
09:00-09.30	Discussion – pilot studies for readiness – main players	All
<b>09:30-10:00</b>	<b>Coffee break</b>	
10:00-10:30	<a href="#">Renewable energy potentials for spatial planning and policy development – conceptual framework</a>	Nicolas Fichaux, Programme Officer - Resource Assessment, KMTC, IRENA
10:30-11:00	<a href="#">Confronting reality – wind monitoring in Pacific islands – example</a>	Vincent Bouet, Chief Engineer, Yap State Public Service Corporation
11:00-11:30	Discussion – on-going programmes and strategic focus for potential mapping	All
11:30-12:00	<a href="#">Session summary and way forward</a>	Rupeni Mario, SPC
12.00-12:30	Presentation of a Draft Statement of the Outcome of the Workshop to the IRENA Council	'Akau'ola, Special Advisor to the Prime Minister of Tonga
<b>12:30-13:30</b>	<b>LUNCH</b>	

<b>Session 7: Policy Advice and Capacity Building for Pacific region</b>		<b>Moderator: Emanuele Taibi, Energy Specialist, SPC</b>
13:30-14:00	<a href="#">Promoting renewable energy policies in Tokelau – lessons learned</a>	Hon. Foua Toloa, Ulu-o-Tokelau
14:00-14:30	<a href="#">Promoting renewable energy policies in Fiji</a>	Peceli Nakavulevu, Fiji Department of Energy
14:30-15:00	<a href="#">Promoting renewable energy policies in the Cook Islands</a>	Tangitamaiti Tereapii, RE Development Division, Cook Islands
15:00-15:30	<a href="#">Interactive Discussion – on-going programmes and strategic focus for policy development</a>	All
15:30-15:45	<a href="#">Policy Assessment/Advice for the Pacific Region – IRENA initiatives</a>	Hugo Lucas, IRENA
15:45-16:00	<a href="#">Summary of renewable energy policies in the Pacific islands countries and way forward</a>	Emanuele Taibi, Energy Specialist, SPC
<b>16:00-16:15</b>	<b>Coffee break</b>	
16:15-16:30	<a href="#">Capacity Building for the Pacific region – IRENA initiatives</a>	Hugo Lucas, IRENA
16:30-16:50	<a href="#">Capacity Building in Pacific Island countries – concrete examples and opportunities</a>	Eva Oberender, Regional Director - South East Asia and Pacific, REEEP
16:50-17:10	<a href="#">Capacity Building in the Pacific Island Countries – concrete examples and opportunities</a>	Nick Wardrop, National Energy Adviser, RMI
17:10-17:45	<a href="#">Interactive Discussion – on-going programmes and strategic focus for capacity building</a>	All
17:45-18:00	Summary and way forward	Emanuele Taibi, Energy Specialist, SPC
18:00	Closing	IRENA

## **List of Participants**

### Regional organizations/Governments

SPC (Secretariat of the Pacific Community): Solomon Fifita, Emanuele Taibi, Rupeni Mario

PPA (Pacific Power Association): Andrew Daka

USP (University of South Pacific): Atul Raturi

SPREP (South Pacific Regional Environment Programme): Sili'a Kilepoa Ualesi

PIFS: Scott Hook

PRIF (Pacific Region Infrastructure Facility): Cori Alejandrino, John Austin

Australian Government: Martin Hoffman, Julie Delforce, Sara Clough, Veronica Westacott,

Dianne Bravo, Garrick Magers, Jennifer Gregory, Simon Barns, Tim Farrell

New Zealand Government (New Zealand Aid Programme): Joseph Mayhew

### Representatives from Pacific Island Countries/Territories

Tokelau: Hon. Foua Toloa, Thomas Tafia, Jovilisi Suveinakama

Tonga: 'Akau'ola

Fiji: Peceli Nakavulevu

Yap: Vincent Bouet

Kiribati: Tiaon Aukitino

Palau: Greg Decherog

Samoa: Heremoni Suapaia

Papua New Guinea: Vore Veve

Cook Islands: Tangitamaiti Tereapii

Marshall Islands: Nick Wardrop

Tuvalu: Mafalu Lotolua

### Private Sectors

DS Power, Kiribati: Terubentau Akura

Clay Energy, Fiji: Bruce Clay

Environmental & Energy Consultants, Ltd. Fiji: Peter Johnston

IT Power, Fiji: Katerina Syngellakis

Solar Energy Industry Association of the Pacific Islands (SEIAPI)/APEG: Peter Konings

HOMEREnergy: Peter Lilienthal

Wilie's Electrical and Solar Power, Solomon Islands: David Iro Fulaga

SMA Australia Pty. Ltd: Wilhelm van Butselaar

KUTh Energy Ltd.: David McDonald

Projectioneering: Ron Steenbergen

WPCS International Incorporated: Jeffrey Voacolo, Craig Mallory

### Other Countries and Institutions

Bahamas: Philip Weech

Cape Verde Islands: David Vilar Ferrenbach, ECREEE

Maldives: Ibrahim Nashid, Renewable Energy Maldives

Philippines: Laurie Navarro, AMORE Project

International organizations

WB: Charles Feinstein, Wendy Hughes

UNDP: Thomas Jensen

REEEP: Eva Oberender

ADB: Milovan Lucich

IRENA: Dolf Gielen, Hugo Lucas, Julia Wichmann, Nicolas Fichaux, Herbert Wade, Mirei Isaka