

Knowledge Exchange Forum

Sustainable Energy for SIDS

HOFBURG PALACE | VIENNA, AUSTRIA

JUNE 17, 2015



HOSTED BY THE FEDERAL MINISTRY OF FINANCE AND
THE AUSTRIAN DEVELOPMENT AGENCY



Image: Courtesy of Magnus Gehringer

ESMAP MISSION

The Energy Sector Management Assistance Program (ESMAP) is a global knowledge and technical assistance program administered by the World Bank. It provides analytical and advisory services to low- and middle-income countries to increase their know-how and institutional capacity to achieve environmentally sustainable energy solutions for poverty reduction and economic growth. ESMAP is funded by Australia, Austria, Denmark, Finland, France, Germany, Iceland, Lithuania, the Netherlands, Norway, Sweden, and the United Kingdom, as well as the World Bank.

ESMAP Knowledge Exchange Forum:

Sustainable Energy for SIDS

JUNE 17, 2015 | HOFBURG PALACE | MICHAELERKUPPEL, 1010 | VIENNA, AUSTRIA

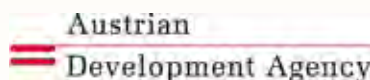
We would like to welcome you to Vienna and to the [ESMAP Knowledge Exchange Forum on Sustainable Energy for SIDS](#).

This event aims to help Small Island Developing States (SIDS) and partners share lessons learned from the clean energy efforts in SIDS and deliberate on the challenges and potential solutions to inform scale-up strategies.

The event will bring together key country stakeholders, partner agencies, financial institutions and subject experts, and will highlight project activities across different SIDS regions. Areas of discussion will include lessons learned from energy sector reforms in small islands states, how to overcome the regulatory and institutional barriers to scale-up renewable energy, how incentives for renewables can be more effective while minimizing societal cost, and the role of energy efficiency in SIDS.

Each session will be opened by one to three keynote presentations that will be followed by a moderated discussion with all participants. Depending on their fields of expertise, participants will be requested to actively contribute to the sessions with their views and experiences at the request of the moderators. A field visit to the Austrian Institute of Technology is planned for June 16, 14:00–17:00, please see agenda inside.

The event is organized by ESMAP in partnership with SIDS DOCK, the Federal Ministry of Finance, the Austrian Development Agency (ADA), and the United Nations Industrial Development Organization (UNIDO).



WEDNESDAY, JUNE 17, 2015

8:00 **Light breakfast and registration**

9:00 **Welcome and Opening Remarks**

- **Mr. Anton Mair**, Deputy Director General, Austrian Development Cooperation
- **Ms. Anita Marangoly George**, Sr. Director, Energy & Extractives Global Practice, The World Bank Group
- **His Excellency, Dr. Vince Henderson**, Ambassador and Permanent Representative of Dominica to United Nations, Chairman of the SIDS DOCK Steering Committee

SESSION 1 | Regional Approaches To Clean Energy Promotion

9:30 **Facilitator: Dr. Venkata (Venkat) Ramana Putti, Program Manager, Climate and Carbon Finance, The World Bank Group**

Pacific Islands Greenhouse Gas Abatement Through Renewable Energy Project (PIGGAREP)

- **Mr. Marcel Alers**, Head of the Energy, Infrastructure, Transport and Technology, UNDP

Network of Regional Sustainable Energy Centers for SIDS – Following up on the SAMOA Pathway

- **Dr. Pradeep Monga**, Director and Special Representative of the Director General on Energy, UNIDO

The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) as the SIDS DOCK Focal Point for African SIDS

- **Mr. Mahama Kappiah**, Executive Director of ECREEE

Update on the Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE)

- **Mr. Solomone Fifita**, Deputy Director (Energy), Secretariat of the Pacific Community (SPC)

Update on the Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE)

- **Dr. Devon Gardner**, Energy Unit, Caribbean Community (CARICOM)

The SIDS Lighthouse Project

- **Mr. Emanuele Taibi**, Islands Roadmap Analyst, IRENA

11:00 **Coffee Break**

SESSION 2 | Future Prospects For Geothermal Development In SIDS

11:15 **Facilitator: Dr. Pierre Audinet, Clean Energy Program Team Leader, ESMAP, The World Bank Group**

11:20 **Introduction to Geothermal Development in SIDS**

- **Mr. Migara Jayawardena**, Senior Energy Specialist, The World Bank Group

11:40 **Moderated Discussion:**

- What are the main barriers for geothermal development in SIDS?
- How can the commercial viability of geothermal projects be strengthened?

(Insights from SIDS-DOCK projects under implementation: Development of geothermal potential in Dominica, Saint Lucia and Grenada, Model Licensing Agreement and/or Power Purchase Agreements for geothermal energy for the Eastern Caribbean)

12:20 **Lunch**

SESSION 3 | Energy Sector Reform in SIDS: Challenges and Lessons Learned

13:20 **Facilitator: Mr. Marcel Alers, Head of Energy, Infrastructure, Transfer and Technology, UNDP**

13:25 **Lessons Learned from Barbados Key Energy Sector Reforms**

- **Ms. Elizabeth Thompson**, Senior Adviser, SE4All, and former Minister of Energy, Barbados.

13:45 **Using Power Sector Reform to Respond to Oil Price Volatility and Climate Change in SIDS.**

- **Dr. Bob Lloyd**, Department of Physics, Energy Studies, University of Otago, New Zealand.

14:05 **Moderated Discussion:**

- How do governments establish a vision for and consensus around reforms?
- What has worked or not worked in the past, especially in terms of timing and sequencing?
- How lessons learned from other islands can be more effectively incorporated in the design of new projects?
- How to plan for the optimum technology mix in SIDS? How to respond to unsolicited proposals from the private sector?

(Insights from SIDS-DOCK projects under implementation: Tuvalu energy sector reform, Eastern Caribbean Energy Regulatory Authority (ECERA) Project, Energy Sector Development Project in Vanuatu etc.)

SESSION 4 | Bringing Renewable Energy Technologies Up To Scale

14:40 **Facilitator: Mr. Emanuele Taibi, Islands Roadmap Analyst, IRENA**

14:45 **The King Island Renewable Energy Integration Project, Tasmania**

- **Mr. Simon Gamble**, Manager for Hybrid Off-Grid Solutions, Hydro Tasmania

15:05 **Renewable Energy Integration in Small and Isolated Power Systems in Spain. Case Study of the Hydro – Wind Power Station on El Hierr**

- **Dr. Gabriella Németh**, Energy Directorate, Electric Energy Department, National Commission for Markets and Competition, Spain

15:25 **Moderated Discussion:**

- What are the main barriers for scaling-up renewable technologies in SIDS?
- In the case of wind and solar technologies, are grid integration issues becoming the most important barrier? What are the pre-conditions for integrating high shares of variable renewables while increasing reliability and affordability of electricity supply? How can smart-grid and storage technologies help?
- Implementation of renewable grid connected projects and minigrids; ownership models and sustainability.
- Are SIDS receiving the adequate and appropriate support to scale-up renewables?

(Insights from SIDS-DOCK projects under implementation: Hydro power rehabilitation and grid upgrades in Sao Tome, Cabo Verde Solar PV for Healthcare project, Expanded Private Participation in Renewable Energy Supply to the Grid and Renewable energy integration in Seychelles, Grid integration and Smart-grid in Mauritius, Caribbean OECS Regional Solar PV Scale-up Project, Off-grid Electrification Project in Palau and Kiribati, Scaling-up wind power IPPs and PV community lighting on various islands in Cape Verde, Planning, installation and operation of the 312 kw PV mini-grid hybrid project in Guinea Bissau)

16:15 **Coffee Break**

AGENDA CONTINUES ON THE NEXT PAGE

SESSION 5 | Traditional and innovative approaches for improving energy efficiency in SIDS

- 16:30 **Facilitator: Ms. Zoritsa Urosevic, UNWTO Representative to the United Nations in Geneva, United Nations World Tourism Organization**
- 16:35 **Introductory Remarks on the Role of the Tourism Sector in Improving Energy Efficiency in SIDS (HES and neZEH initiatives)**
- **Ms. Zoritsa Urosevic**, UNWTO Representative to the United Nations in Geneva, United Nations World Tourism Organization
- 16:45 **Appliance labeling and Standards. The Experience in the Pacific Islands**
- **Mr. Tim Farrell**, Senior Advisor at the Copenhagen Centre on Energy Efficiency (C2E2)-Energy Efficiency Hub for the Sustainable Energy for All (SE4ALL)
- 17:05 **Potential Role of Deep Seawater for Cooling and Air Conditioning in Small Island Nations**
- **Mr. Masanori Kobayashi**, Director, New Energy and Industrial Technology Development Organization (NEDO), Japan
- 17:25 **Moderated Discussion:**
- How important is the role of energy efficiency in islands?
 - Are there innovations that allow fuel savings considered in sector planning (demand forecast etc.)?
 - What are the most effective interventions?
 - Are demand side management energy efficiency measures cost-effective for SIDS?
- (Insights from projects under implementation: Removal of barriers to EE in Buildings in Mauritius, Caribbean Regional EE Lighting Project, Sea Water Air Conditioning program in Mauritius, and energy efficiency in the tourism sector)*
- 17:50 **Closing Remarks by Dr.Kandeh K. Yumkella, Special Representative of the Secretary-General and CEO, Sustainable Energy for All (SE4All)**

Field Visit
ESMAP Knowledge Exchange Forum and
Vienna Energy Forum 2015

ESMAP Knowledge Exchange Forum



TECHbase Vienna, Giefinggasse 2, 1210 Vienna, 3rd floor, Room W301

- 1:00pm** **Meeting location for departure: Intercontinental Hotel**
- 14.00** Welcome and Introduction
AIT and Energy Department
Wolfgang Hribernik (Deputy Head of Energy Department)
- 14.10** **Electric Energy Systems**
How Smart Grid Technologies can contribute to improve renewable energy integration in Small Island Developing States
Werner Friedl (Senior Engineer)
- 14.30** **Photovoltaic Systems**
Current and emerging PV technologies and components (including showcase of modules samples)
PV standards, certification and lab certification
Christoph Mayr (Head of Business Unit Photovoltaic Systems)
- 14.50** **Sustainable Buildings and Cities**
Key components and challenges in a long-term sustainable city strategy
Reinhard Schütz (Business Developer)
- 15.10** Break
- 15.30** Lab Tour
- Photovoltaics
- SmartEST
- EnergyBase
- 16.30** Discussion and next steps

SPEAKERS AND MODERATORS' BIOS

OPENING AND CLOSING REMARKS



Ms. Anita Marangoly George,
Senior Director, Energy and Extractives Practice Group, The World Bank Group

Anita is the Senior Director of the World Bank Group's Energy and Extractive Industries Global Practice. In this position, she provides leadership and strategic direction to the Global Practice that fosters partnerships with key clients through lending, advisory and knowledge services. The sustainable development of energy and extractive industries is key to delivering on the World Bank's twin goals of reducing extreme poverty and improving shared prosperity. Before assuming this position on July 1, 2014, Ms. George was the Asia Pacific Regional Director for Infrastructure and Natural Resources at the International Finance Corporation (IFC), the private sector arm of the World Bank Group. She has played several roles in the World Bank Group, working in Asia, Africa, Middle East and Latin America. Besides her work with the Bank Group, she has headed Siemens Financial Services in India covering the telecommunications, power and transportation sectors, and has also served in management positions with the Steel Authority of India.

Ms. George holds a dual Masters' degree in Business Administration and Economic Policy from Boston University. She is married and the mother of two children.



His Excellency, Dr. Vince Henderson,
Ambassador and Permanent Representative of the Commonwealth of Dominica to the United Nations, Chairman of the SIDS DOCK Steering Committee

His Excellency, Dr. Vince Henderson is the Permanent Representative and Ambassador of the Commonwealth of Dominica to the United Nations in New York since March 2010. He is the chairman of SIDS Dock, a sustainable energy initiative for Small Island Developing States (SIDS), since 2011. SIDS DOCK has a membership of 31 Small Island Developing States (SIDS). Dr. Henderson is also the chairman of the Government of Dominica Geothermal Energy Development and Negotiations Team.

Dr. Henderson was elected to the Parliament of the Commonwealth of Dominica for two consecutive terms in 2000 and 2005. During that time he also served as Minister of Housing and Physical Planning; Agriculture and the Environment; Education, Human Resource Development, Sports and Youth Affairs; and Foreign Affairs, Immigration and Labour. Dr. Henderson holds a Doctor of Law and Policy degree from Northeastern University in Boston, Massachusetts, USA. He also holds a LLM (master of laws) degree, an LLB (Hons) (Bachelor of Laws), a Bachelor of Science degree in Computer Science and a Diploma of Education.



Mr. Anton Mair,
Deputy Director General, Austrian Development Cooperation

Mr. Anton Mair has been the Deputy Director General of Austrian Development Cooperation since 2004. He is also Director of Policy, Strategy and Evaluation in the Department of Development Cooperation in the Ministry of Europe, Integration and International Affairs (the Austrian Foreign Ministry).

Anton's professional career has included a range of posts in the Austrian Federal Chancellery and in the Foreign Ministry in Vienna, together with postings abroad managing Austrian development programs, including spells in Papua New Guinea and Uganda. Since 2000, Anton has been a lecturer on International Development Studies at Vienna University.

SPEAKERS AND FACILITATORS

SESSION 1 | Regional Approaches to Clean Energy Promotion



Facilitator: Dr. Venkata (Venkat) Ramana Putti
Program Manager, Climate and Carbon Finance, The World Bank Group

Dr. Putti is the Program Manager of the Climate and Carbon Finance unit at the World Bank. During 2011–15, he led the Energy Access portfolio of the Energy Sector Management Assistance Program (ESMAP) and acted as the coordinator of the SIDS DOCK Support Program.

Before joining the World Bank, Venkat held senior executive positions at UNDP/GEF, Winrock International and TERI, managing national clean energy and environment program portfolios. Venkat has authored and edited over 80 publications including books, peer-reviewed articles, and technical reports, and presented at over 30 global and regional conferences. Venkat holds degrees in civil engineering and business management and a Ph.D. in energy studies.



Speaker: Mr. Marcel Alers,
Head of Energy, Infrastructure, Transport and Technology, UNDP

Marcel is UNDP's global Head of the Energy, Infrastructure, Transport and Technology team. Marcel is an experienced development professional with 30 years of experience in environmental and energy management. Upon joining UNDP in 1999, he focused on the development of the project Global Environment Facility and developed a significant portfolio of clean energy projects, including a large number of energy efficiency projects in particular in the buildings sector. Since 2005 he has been overseeing UNDP's global clean energy portfolio and is leading UNDP's programming in the area of sustainable energy.

Prior to joining UNDP, Marcel worked as a senior environmental specialist at the African Development Bank with a special focus on energy and infrastructure. Before that he managed several sustainable forest and protected area management projects in Cote d'Ivoire and in several Central African countries. He has working field experience in more than 40 countries worldwide.



Speaker: Dr. Pradeep Monga,
Director and Special Representative of the Director General on Energy, UNIDO

Dr. Monga is Director, Energy Branch, United Nations Industrial Development Organization (UNIDO). An energy expert with over 30 years of working experience in the field of energy policy, strategic planning and clean energy technologies, Dr. Pradeep Monga is presently working as Director of Energy Branch at United Nations Industrial Development Organization (UNIDO), Vienna. Prior to joining UNIDO in 2001, Dr. Monga worked with UNDP for over five years overseeing their energy and environment portfolio in India. Before starting his UN career, Pradeep has held senior positions in the Government of India, and undertook several international assignments with the World Bank, FAO and other multi/bi-lateral organizations. A Fulbright Scholar, he has been a visiting Fellow at TERI, New Delhi, and World Resources Institute, Washington DC, and completed leadership and change management programme at the Harvard Business School. He is closely involved in strengthening of global partnerships and networks on energy such as UN Energy, Global Bioenergy Partnership, REEEP, REN 21, and has been closely associated with the global initiative on Sustainable Energy for All (SE4ALL) launched by UN Secretary General at Rio + 20 in June 2012.

Dr. Monga has presented technical papers in over 45 international seminars and workshops in the field of energy, environment and sustainable development focusing on energy policies, technology transfer and capacity building issues in developing countries and economies in transition. He has several technical papers to his credit, and has organized several global forum activities. He has co-authored three books and is working on his fourth on Renewable Energy for Industrial Applications: A Case Study of India.



Speaker: Mr. Mahama Kappiah,
Executive Director of ECREEE

Mahama, Executive Director, ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) has been instrumental in the establishment of the Centre which aims to ensure increased access to reliable, affordable and clean energy in the West African region. Under his leadership, ECREEE has attained international recognition as a unique regional renewable energy and energy efficiency promotion agency in sub-Saharan Africa, with other regional economic Communities such as the EAC and SADC seeking to emulate. Prior to the establishment of ECREEE in 2010, Mahama was Head of the ECOWAS Energy Division. Some of his achievements include the creation of the West African Power Pool (WAPP) and the ECOWAS Regional Electricity Regulation Authority (ERERA). Before joining the ECOWAS Commission, he worked in the Planning and Development Department of the Volta River Authority (VRA) of Ghana, where he served in various capacities. Mahama is a member of the REN21 Board. He has over 20 years of experience working on issues related to energy, environment, climate change and sustainable development in West Africa and beyond.



**Speaker: Mr. Solomone Fifita,
Deputy Director (Energy), Secretariat of the Pacific Community (SPC)**

Solomone is currently the Head of the Pacific's Regional Energy Programme, housed at the Economic Development Division of the Secretariat of the Pacific Community in Suva, Fiji.

He has served as Project Manager for regional energy and climate change projects for the Pacific Islands and prior to that he was the Energy Planner for the Kingdom of Tonga. Solomone was a lead author in the IPCC Special Report on Renewable Energy, the IPCC 5th Assessment Report and was recently a Lead Reviewer of National Communications for the UNFCCC. Solomone has more than 25 years in the energy sector of the Pacific Islands and holds a Master of Science in Energy Planning and Policy.



**Speaker: Dr. Devon Gardner,
Programme Manager for Energy and Head of the Energy Unit at the Caribbean Community (CARICOM) Secretariat**

In this role, Dr. Gardner has oversight of the CARICOM Energy Programme (CEP), which is tasked with increasing regional energy security and advancing the transformation of the Region's energy sector towards a more sustainable energy path (through the implementation of a regional energy policy and a regional sustainable energy strategy).

Previous to his appointment at the Secretariat, Devon was a Technical Adviser to the GEF UNEP Energy for Sustainable Development (ESD) Project and the SIDS DOCK Island Energy Initiative, which are both within the Caribbean Community Climate Change Centre (CCCCC). He also served as Professor of Physical Chemistry and Dean of the School of Sciences and Technology at the University of the Southern Caribbean in Trinidad and Tobago; Adjunct Professor in Sustainable Energy Management at the Arthur Lok Jack Graduate School of Business of the University of the West Indies, also in Trinidad and Tobago; Associate Professor of Physical Chemistry at the College of The Bahamas; and Associate Professor of Physical Chemistry at the Northern Caribbean University in Jamaica; as well as Visiting Professor in Chemical Physics at the University of Iceland and Senior Research Fellow at the University of Leiden in The Netherlands respectively. He has published over fifty (50) peer reviewed articles, numerous reports and studies. Devon received his Doctor of Philosophy (Ph.D.) degree in Physical Chemistry with specialization in numerical analysis from the University of the West Indies (Mona Campus, Jamaica) in 2001.



**Speaker: Mr. Emanuele Taibi,
Islands Roadmap Analyst, IRENA**

Emanuele joined IRENA in September 2013 as Island Roadmaps Analyst. He is based with the IRENA Innovation and Technology Center in Bonn, Germany. His role is to assist islands in the transition to renewable energy, focusing on energy planning and tourism applications.

Prior to joining IRENA, he was an Energy Specialist with the Secretariat of the Pacific Community (SPC) in the Federated States of Micronesia. He has over 10 years of experience in the energy sector, with a focus on renewable energy, and has been working for the United Nations (UNIDO), for large private energy companies and for public and private research institutions. He has a M.Sc. in Management Engineering (laude) and is a chartered industrial engineer from Italy.

SESSION 2 | Future Prospects for Geothermal Development in SIDS



**Moderated Discussion by: Dr. Pierre Audinet,
ESMAP Clean Energy Program Team Leader, The World Bank**

Dr. Audinet is the Program Team Leader for the ESMAP Clean Energy Program. Pierre has advised governments operating in high, middle and low income countries—including fragile states. During his tenure with the World Bank, he has identified, prepared and supervised World Bank investment lending operations and analytical activities in MENA, LAC, EAP and ECA from 2004–Present.

Prior to joining the World Bank, Pierre was with the International Energy Agency (IEA). Educational Background: PhD in Economics, MPhil and a MSc in Economics.



Migara Jayawardena
Senior Energy Specialist, Energy and Extractives Global Practice, The World Bank Group

Migara Jayawardena is a Senior Energy Specialist at the World Bank. He has worked throughout the world on issues related to infrastructure reform and development finance. Migara's work in the energy sector has focused mostly on power sector and utility reform, renewable energy, and rural electrification. In his current position, he works mainly on business development, policy advice, and investment lending challenges in the Latin America and Caribbean region. He also coordinates the World Bank's energy sector work in Central America and the Caribbean. Previously, he worked in the East Asia region of the World Bank where he led work on climate change and support to a globally unprecedented geothermal renewable energy development program; institutional reform of utilities; power transmission and distributional system strengthening; hydropower development; rural energy access; and oil and gas sector issues. Mr. Jayawardena has also worked in Europe and Central Asia and Africa regions of the World Bank, in addition to holding the position of Special Assistant to the Vice President of Human Resources. Prior to joining the World Bank, Migara was the Assistant Program Director and a Faculty Member for the Program on Investment Appraisal and Management, at Harvard University's Institute for International Development (HIID). He also helped establish Cambridge Resources International (CRI), an investment and risk advisory consultancy. Migara received his B.Sc. in Economics from Towson State University and his Masters in Public Policy from Harvard University.

SESSION 3 | Energy Sector Reform in SIDS: Challenges and Lessons Learned



Facilitator: Mr. Marcel Alers,
Head of the Energy, Infrastructure, Transport and Technology UNDP

See Session 1 above, page 7.



Speaker: Ms. Elizabeth Thompson,
Senior Adviser, SE4All, and former Minister of Energy, Barbados

Liz is a Senior Advisor to the Sustainable Energy for All (SE4ALL). In 2010 she was appointed as one of two United Nations Assistant Secretaries General with specific responsibility as Executive Coordinators of the political process and Outcome Document for the Rio+20 Conference on Sustainable Development. Prior to that she was a Member of Parliament and Minister of Government of Barbados for 14 years, during which time she held various portfolios including Energy and Environment.

As a Minister she led many important policy initiatives including, the development of Barbados' National Green Economy Policy, the first in the Americas, as well as the development of Barbados' Sustainable Development policy, the country's first national sustainable energy policy and its national petroleum policy. In 2008 she was recognised with the Champion of the Earth Award.

Liz is an attorney at law and qualified arbitrator. She holds an LLB from the University of the West Indies, an LEC from the Hugh Wooding Law School, an MBA with Distinction from the University of Liverpool and an LLM in energy and environmental law and policy from the Robert Gordon University. Speaker: Mr. Delio Malheiros, Vice Mayor, Belo Horizonte, Brazil



Speaker: Dr. Bob Lloyd,
Department of Physics, Energy Studies, University of Otago, New Zealand

Dr. Lloyd is from Australia, he came to New Zealand in 2002 after having worked for the Australian Co-operative Research Centre for Renewable Energy (ACRE), based at Murdoch University in Perth. There he worked on renewable energy systems for remote areas and managed various research projects including wind power, fuel cells, advanced battery systems and PV diesel hybrid systems. At ACRE he coordinated and edited a major review of standards in place for renewable energy systems in Australia which also included a section on training opportunities available in Australia in the renewable energy sector. Bob was also involved in managing the research program for the Centre for Appropriate Technology (Alice Springs) where he undertook an extensive survey of remote off grid PV systems located in Aboriginal communities. Bob has extensive experience in the Pacific having worked at the University of the South Pacific in Fiji for nearly 20 years with 10 years as Director of the Institute of Applied Science.

He was the Director of Energy Studies at Otago University (Physics Department) until early 2015 with research interests in energy conservation in residential housing and energy management, including world energy resources and the implications of fossil fuel use on climate change. His PhD from Flinders University in South Australia was completed in the field of experimental atomic physics.

SESSION 4 | Bringing Energy Technologies Up to Scale



**Facilitator: Mr. Emanuele Taibi,
Islands Roadmap Analyst, IRENA**

See Session 1 above, page 8.



**Speaker: Mr. Simon Gamble,
Manager for Hybrid Off-Grid Solutions, Hydro Tasmania**

Simon Gamble is Manager for Hybrid Off-Grid Solutions at Hydro Tasmania where he is responsible for the business unit undertaking project development and the provision of advisory and implementation services to national and international clientele. As the 2010 Tasmanian Professional Fulbright Scholar Simon investigated renewable energy integration technologies at several leading research institutions in the United States.

Simon led the recently completed King Island Renewable Energy Integration Project which involved the development of a world leading renewable hybrid island power system capable of 100% renewable operation at megawatt scale, successfully incorporating flywheels, energy storage and demand side response with wind and solar generation. Simon holds a B.E. (first class honors) and M.Eng.Sci degrees from Adelaide University and an MBA from the Australian National Business School.



**Speaker: Dr. Gabriella Nemeth,
Energy Directorate, Electric Energy Department, National Commission for Markets and Competition, Spain**

Dr. Nemeth is an expert on isolated power systems and renewable integration in conventional power systems and storage. Since 2008 she has been working for the Spanish energy regulator, today integrated in the National Commission of Markets and Competition (CNMC), where she supervises and controls the power generation in the isolated power systems of Spain (Balearic Island, Canary Islands, Ceuta and Melilla). Gabriella was also a post-doctoral scientific fellow at the IPTS (Institute for Prospective Technological Studies – Seville, DG JRC, European Commission), where she was involved in energy modeling linked to a general equilibrium framework. She holds a PhD degree in economics by the University of Complutense of Madrid and wrote her thesis on productive efficiency of the Hungarian Power sector in the period of 1990–2002.

SESSION 5 | Traditional and Innovative Approaches for Improving Energy Efficiency in SIDS



**Facilitator: Ms. Zoritsa Urosevic,
UNWTO Representative to the United Nations in Geneva, United Nations
World Tourism Organization**

Zoritsa is the United Nations World Tourism Organization representative to the United Nations in Geneva. She has more than twenty years of experience with tourism sector development.

In 1993 she moved to Seychelles to work for the Government as an Economist at the Ministry of Industry. She later joined the Ministry of Tourism and Transport as Director of International Cooperation, where she was responsible for liaising with UNWTO. In 2000 she played an instrumental role in the creation of a National Tourism Organization for Seychelles. In 2006, Zoritsa joined the UNWTO Headquarters in Madrid, first as the Executive Secretary for the UNWTO Business Council and later as the head of the UNWTO Institutional Relations and Resources Mobilization Programme which aims at building strategic alliances and partnerships with International Institutions, UN agencies and Programmes, and the private sector- positioning tourism in the global agenda.

Since March 2015, Zoritsa has been based in Geneva as the United Nations World Tourism Organization representative to the United Nations. Ms. Urosevic holds a degree in Psychology and a Masters in Marketing and Management in Strasbourg.



**Speaker: Mr. Tim Farrell,
Senior Advisor at the Copenhagen Centre on Energy Efficiency (C2E2)-Energy Efficiency
Hub for the Sustainable Energy for All (SE4ALL)**

Tim is a Senior Advisor at the Copenhagen Centre on Energy Efficiency (C2E2), which also serves as the Energy Efficiency Hub for the Sustainable Energy for All (SE4ALL) initiative. Tim is contributing to the SE4ALL's ambitious objective of doubling energy efficiency improvement by 2030 by providing strategic and analytical support to the Global Energy Efficiency Accelerator Platform and other collaborative actions at the global, regional and national levels. Tim is currently the Chair of the Group of Experts on Energy Efficiency for the United Nations Economic Commission for Europe's (UNECE), which includes 56 member States. Prior to joining the Copenhagen Centre, Tim had spent seven years developing energy efficiency policies and programs in Australia, Southeast Asia and the Pacific. Tim initiated the Pacific Appliance Labelling and Standards (PALS) Program that is delivering energy efficiency, energy security, financial savings and other multiple benefits to the Pacific Region.



**Speaker: Mr. Masanori Kobayashi
Director, New Energy and Industrial Technology Development Organization (NEDO), Japan**

Masanori is the Director of Kyoto Mechanisms Promotion Department/International Projects Department of NEDO (New Energy and Industrial Technology Development Organization, Japan). He has been coordinating and promoting energy and environment demonstration projects with related studies in the area of energy efficiency and conservation, renewable energy, clean coal technology, and 3Rs in the recent decade including his 4-year-carrier as a Chief Representative in Indonesia. He is now the focal point of JCM (Joint Crediting Mechanism) promotion in NEDO, to enhance bilateral collaboration between Japan and developing countries in order to deploy low carbon technologies and tackle with climate change.



**Closing Remarks | By Dr. Kandeh K. Yumkella,
Special Representative of the Secretary-General and CEO,
Sustainable Energy for All (SE4LL)**

Dr. Yumkella is the Special Representative of the UN Secretary-General and Chief Executive, Sustainable Energy for All initiative. He leads the overall coordination of the initiative and oversees the work of the Global Facilitation Team (GFT), as well as operations at various locations, including the Thematic and Regional hubs.

Prior to his appointment, Kandeh served two terms as Director General of the United Nations Industrial Development Organization (UNIDO), first in December 2005 and then upon re-election in 2009.

Dr. Yumkella has also chaired UN-Energy since 2008, convening UN organizations working on energy issues. As its Chairman, he brought a renewed focus to global energy issues and helped to coordinate the UN response to such issues.

Prior to working for UNIDO, he was the Minister for Trade, Industry and State Enterprises of the Republic of Sierra Leone from 1994-1995. Between 1987 and 1996, while furthering his studies, he held various academic positions at Michigan State University and the University of Illinois. Kandeh is a Member of World Economic Forum, Global Agenda Council on Climate Change, and China International Council on Cooperation for Environment and Development (CICCED). He holds PhD in Agricultural Economics from the University of Illinois, and M.Sc. in Agricultural Economics from Cornell University. He obtained his B.Sc. Division One (Cum Laude) in General Agriculture from Njala University College in Sierra Leone.

LIST OF PARTICIPANTS

The final list of participants will be made available after the event has concluded.

**Please visit our webpage at:
http://www.esmap.org/Clean_Energy_Events**

NOTES

ESMAP SIDS DOCK SUPPORT PROGRAM

Most Small Island Developing States (SIDS) are highly dependent on imported petroleum products to meet their energy needs, including electricity. This has a number of impacts: high and often rising costs for electricity, vulnerability to oil price shocks, and supply interruptions. Many SIDS are now looking to transition to more sustainable energy systems, where improved energy efficiency and renewable energy play an increasingly important role.

Despite their significant renewable energy resource potential—solar, wind, ocean, geothermal, and biomass—many SIDS are limited by the existing structure of their energy sectors and inadequate institutional and private sector capacity for the development of such resources.

To help meet this transition challenge, the SIDS DOCK Support Program was launched by the World Bank's Energy Sector Management Assistance Program (ESMAP) with funding from the Government of Denmark and Japan. The program is implemented in partnership with UNDP.

The SIDS DOCK Support Program is designed to help achieve the transformation of the energy sectors in SIDS by focusing on two principal outcomes:

- Creation of an enabling operational, legal, and institutional environment to implement renewable energy and energy efficiency policy reforms based on international best practices, and
- Implementation of renewable energy and energy efficiency initiatives for potential scale-up through climate finance and other sources of funding.

For more information about the ESMAP SIDS DOCK Support Program for Small Island Developing States, visit us at:

http://www.esmap.org/SIDS_DOCK



- 8:00 Registration | Light breakfast
- 9:00 Welcome: Government of Austria
Opening Remarks:
- Mr. Anton Mair, Deputy Director General, Austrian Development Cooperation
 - Ms. Anita Marangoly George, Sr. Director, Energy & Extractives Global Practice, The World Bank Group
 - His Excellency, Dr. Vince Henderson, Ambassador and Permanent Representative of Dominica to United Nations, Chairman of the SIDS DOCK Steering Committee

SESSION 1 | Regional Approaches to Clean Energy Promotion

- 9:30 Facilitated by: Dr. Venkata (Venkat) Ramana Putti, Program Manager, Climate and Carbon Finance, The World Bank Group
- Pacific Islands Greenhouse Gas Abatement through Renewable Energy Project (PIGGAREP)
 - Network of Regional Sustainable Energy Centers for SIDS — Following up on the SAMOA Pathway
 - The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) as the SIDS DOC focal point for African SIDS
 - Update on the Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE)
 - Update on the Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE)
 - The SIDS Lighthouse Project
- 11:00 Coffee Break

SESSION 2 | Future Prospects for Geothermal Development in SIDS

- 11:15 Facilitated by: Dr. Pierre Audinet, Clean Energy Program Team Leader, ESMAP, The World Bank Group
- 11:20 Experiences with Geothermal Development in SIDS
- 11:40 Moderated Discussion
- 12:20 Lunch

SESSION 3 | Energy Sector Reform in SIDS: Challenges and Lessons Learned

- 13:20 Facilitated by: Mr. Marcel Alers, Head of Energy, Infrastructure, Transfer and Technology, UNDP
- 13:25 Lessons Learned from Barbados | Key Energy Sector Reforms
- 13:45 Using Power Sector Reform to Respond to Oil Price Volatility and Climate Change in SIDS.
- 14:05 Moderated Discussion

SESSION 4 | Bringing Renewable Energy Technologies Up to Scale

- 14:40 Facilitated by: Mr. Emanuele Taibi, Islands Roadmap Analyst, IRENA
- 14:45 The King Island Renewable Energy Integration Project, Tasmania
- 15:05 Renewable Energy Integration in Small and Isolated Power Systems in Spain | Case Study of the Hydro-Wind Power Station on El Hierro
- 15:25 Moderated Discussion
- 16:15 Coffee Break

SESSION 5 | Traditional and Innovative Approaches for Improving Energy Efficiency in SIDS

- 16:30 Facilitated by: Ms. Zoritsa Urosevic, UNWTO Representative to the United Nations in Geneva, United Nations World Tourism Organization
- Introductory Remarks | Role of the Tourism Sector in Improving Energy Efficiency in SIDS (HES and neZEH Initiatives)
- 16:45 Appliance Labeling and Standards | The Experience in the Pacific Islands
- 17:05 Potential Role of Deep Seawater for Cooling and Air Conditioning in Small Island Nations
- 17:25 Moderated Discussion
- 17:50 Closing Remarks by Dr. Kandeh K. Yumkella, Special Representative of the Secretary-General and CEO, Sustainable Energy for All (SE4LL)

JUNE 16 | Site Visit Hosted by the Austrian Institute of Technology