



INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY IN AFRICA

MAKING RENEWABLE ENERGY MARKETS WORK FOR AFRICA

POLICIES, INDUSTRIES AND FINANCE FOR SCALING UP

16-18 April 2008, Dakar, Senegal, Le Meridien President Hotel.

Time	14 April	15 April	16 April	17 April					18 April
0900 – 1030hrs	<ul style="list-style-type: none"> ▪ Conference Preparatory Meeting. 	<ul style="list-style-type: none"> ▪ Conference Preparatory Meeting. ▪ UN/Energy Africa Meeting. ▪ COMPETE WP5 meeting. ▪ EUEI / PDF Meeting. 	Opening Ceremony and Exhibition ¹ .	Technologies Transfer and Development.					Plan of Action – Way Forward.
1030 – 1230hrs			Keynote Speeches	Capacity Building and R&D.					
1400 – 1530hrs			Policy and Regulatory Frameworks	Investments and Financing.	Biomass and biofuels technologies.	Solar energy and Wind	Hydro power and Geothermal	Energy Efficiency	BMZ/REN21/AFREPREN Side event
1600 – 1830hrs			Registration & Accreditation of Delegates						Presentations from parallel Sessions
									Closing Session

	Side Events
	Plenary Session
	Parallel sessions
	Ministerial Segment

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¹ Exhibition will be open on 13-16 April 2008.

Introduction and Overview

Background

As Africa continues to register consistent and positive economic growth rates, there are serious concerns that energy supply and access challenges are already encumbering the continent's overall growth prospects. It should, however, be noted that Africa has vast renewable and non-renewable energy resources that largely go unexploited. As an example, it is estimated that only 7% of hydroelectricity and less than 1% of geothermal potential on the continent have been exploited.

It is agreed that the exploitation of the readily available renewable energy resources in Africa is part of the solution to the continent's energy challenges and, to date, there have been various initiatives aimed at developing renewable energy markets in Africa. Experiences so far suggest that renewable energies in Africa have been developed with principally two main orientations. Large-scale renewable energy like geothermal and cogeneration projects have been developed with a view to increase security of supply through diversification and reducing exposure to external shocks (e.g. from high oil prices and droughts). On the other hand, small and medium scale renewables seem to have been developed to expand access to modern energy services, especially in remote/rural areas.

Despite of experiences gained and lessons learnt in developing renewable energy in Africa and other regions so far and the potential contribution of the exploitation renewable energy resources to addressing Africa's energy challenges, renewable energy markets in Africa have remained largely underdeveloped. Therefore, it is important to identify the bottlenecks to renewable energy markets and develop interventions that will transform and operationalise renewable energy markets so as to support the scaling up of the exploitation of renewable energy resources in Africa.

Objectives

Making use of lessons learnt and experiences gained with renewable energy projects in Africa and elsewhere, the conference will examine how bottlenecks to renewable energy markets related to policies, technologies, financing, capacity etc can be addressed so as to support the scaling up the use of renewable energy resources. The conference will bring together high-level decision makers to provide visible leadership and commitment to a common strategy for market-based scaling up of renewable energies that is informed by lessons learnt from concrete case studies and the energy situation that obtains in Africa. Specifically, the conference has the following key objectives:

- Assess the significance of the role renewable energy to Africa's energy challenges;
- Identify most promising policy and regulatory options and new policy actions required to stimulate broader and accelerated market-based dissemination of renewable energy;
- Assess renewable energy technologies related challenges and discuss how they can be addressed;
- Identify capacity needs for renewable energy markets enablers/facilitators and players; and
- Engage stakeholders in issue-oriented discussions to share experiences and develop a common plan of action for market-based scaling up renewable energy.

Overview

The conference consists of plenary sessions and parallel workshops carefully structured to facilitate sharing of experiences and stimulate issue-oriented discussions. The first two days are dedicated to technical discussions and the development of recommendations on concrete proposals to be included in the plan of action. The third day is dedicated to high-level discussion of the conference declaration and plan of action and then ministerial dialogue on the way forward.

Day 1: Opening, Keynote speeches, Policy and regulatory frameworks and Investment and Financing Issues.

Day 2: Technology transfer and development; Capacity building and research and development and Technologies specific issues.

Day 3: Plan of action, Declaration, Ministerial dialogue, and Closure.

Day 1-3 : Exhibition

16 April – Technical Programme

09:00 – 10:00	<u>Opening session</u>
	Welcome Statement: Minister of Energy Senegal – Mr. Samuel Amete SARR Charge d'Affaires and Head of the Department of Economic Affairs and Cooperation, German Embassy- Dr. Bernhard Kotsch Commissioner for Infrastructure, African Union Commission – Dr. B. Zoba. Director-General, UNIDO – Dr. Kande K. YUMKELLA. Official Opening – President of the Republic of Senegal, H. E. Me Abdoulaye WADE.

10:00 – 10:30 - TEA/COFFEE BREAK & VISIT THE EXHIBITION.

10:30 – 12:30	Plenary 1: Keynote Speeches
	Conference objectives and expected outcomes – Dr. Mike Enskat –GTZ Energy in Africa and the role of Renewable energy, the need for scaling up : Dr. Youba Sokona, Sahara and Sahel Observatory, OSS. Making renewable energy markets work in Africa. – Experiences in Africa and emerging issues – Prof. O. Davidson, University of Sierra Leone. Overview of global renewable energy developments and implications for Africa – Mr. P. Suding PAUL, REN21. AfDB activities in the energy sector: options for scaling up renewable energy financing - Dr. Amadou Thierno, Diallo, African Development Bank Senegal’s “best practice” case of policies in support of renewable energies. – Hon. Prof. Christian Diatta, Minister of Biofuels, RE and Scientific Research Senegal Conference modalities - Mr. L. SECK. & Dr. H.Leuenberger-UNIDO

12:30 – 14:00 - LUNCH BREAK (Salon Brun)

14:00 – 15:30	Parallel session 1: Policy and regulatory frameworks for scaling up.
	<u>Workshop 1.1: Policies and regulatory issues for grid connected renewable energy (Room BC012)</u>
Presentations 14:00 – 15:00	Chair – Minister / Moderator- Mr. Minoru Takada, UNDP. Policy and regulatory issues for grid connected wind energy in Egypt, implications for scaling up – Prof. Galal Osman, Vice President, WWEA. Role of Parliamentarians in Promoting Renewables – Experiences from Ghana - Honourable Dr. Kwame Ampofo, MP, Ghana Investment promotion through regulatory institutional and environmental strengthening – Mr. Mufor Atanga, Executive Secretary, African Forum for Utilities Regulators What are policies and regulatory matters that need to be addressed to attract private sector involvement in grid connected renewable energy projects in Africa – Mr. KM Nassiep, South Africa National Energy Research Institute, SANERI.
15:00 – 15:30	Panel Discussion.

<p>14:00 – 15:30</p> <p>Presentations 14:00 – 15:00</p> <p>15:00 – 15:30</p>	<p>Parallel session 1: Policy and regulatory frameworks for scaling up. Workshop 1.2: Policies and Regulatory issues for stand alone renewable energy systems (esp. rural electrification) (Room B05/06) <i>Chair – Minister / Moderator – Prof Vijay Modi – UN MDG Programme</i></p>
	<p>Senegal Case study – Mr. Modibo DIOP, Senegal Rural Electrification Authority. Policy and regulatory issue for scaling up jatropha based rural electrification options in the Sahel region – lessons from Mali – Dr. I Togola, Malifolkecenter. Policies for Slum electrification Case studies from India, South Africa and Brazil – Dr. Vincent Kitio, UNHABITAT. Regional Integration and implications for RE markets – ECOWAS Regional Centre for Energy Access – Mr. M. Kappiah, ECOWAS. SADC Energy Policy Framework and opportunities for decentralized/renewable energy systems. – Mr. Odala Matupa, SADC.</p>
	<p>Panel Discussion. (Panelists to include: Mr. Alassane Agalassou, Mr. L. SECK – Ministry of Energy – Senegal)</p>

<p>14:00 – 15:30</p> <p>Presentations 14:00 – 15:00</p> <p>15:00 – 15:30</p>	<p>Parallel session 1: Policy and regulatory frameworks for scaling up. Workshop 1.3 Bioenergy in Africa (Room C05/06) <i>Chair – Minister / Moderator – Mr. Miyake, Executive Director, The Rural Hub</i></p>
	<p>Bioenergy policies, technologies, priorities and scope for scaling up in Africa (Keynote presentation) – Mr. S. Karekezi, AFREPREN/FWD. Lessons from Sustainable and Participatory Energy Management Project in Senegal and Implications for scaling up – Mr. Col. Youssou LO, Senegal. Sub-regional interventions – Lessons from PRBE project and emerging issues fro scaling up. – Mr. M. Dianka, UEMOA. Emerging lessons from the regional biofuels programme – The NEPAD Cassava Initiative. Dr. zola Mahungu IITA. Policy and technology lessons from the COMPETE Africa Biomass Project and options for scaling up – Mr. Dominik Rutz, WIP. Bioenergy, Agriculture and Rural Development in UEMOA Countries – Dr. Gueye Kamal, ICTSD.</p>
	<p>Panel Discussion.</p>

15:30 – 16:00 TEA/COFFEE BREAK

<p>16:00 – 18:30</p> <p>Presentations 16:00 – 18:00</p> <p>18:00 – 18:30</p>	<p>Parallel session 2: Investment and financing for scaling up renewable energy in Africa Workshop 2.1: Mobilizing International Finance (Room BC012) <i>Chair – Minister / Moderator – Mr. M.H'Midouche, AfDB Regional Office in Senegal</i></p>
	<p>Clean Energy and Climate Adaptation Facility for Africa (CECAFA – Mr. Sebastian Veit, African Development Bank. Challenges and opportunities in mobilizing international private sector investments in RE in Africa – Mr. John F. Moran, Senior Manager, OPIC. Experiences in mobilizing finance for renewable energy projects in Africa- Mr Bruno Wenn, Senior Vice President for Africa, KfW. Experiences in financing renewable energy projects – Mr. J.M. Gravellini - AfD. The Africa-EU Energy Partnership and its financing instruments – Mr. Rainer Hakala, European Commission, DG Development</p>
	<p>Panel Discussion. (Panelist to include : Local Banks, Private Sector, Project Developers etc)</p>

<p>16:00 – 18:30</p> <p>Presentations 16:00 – 18:00</p> <p>18:00 – 18:30</p>	<p>Parallel session 2: Investment and financing for scaling up renewable energy in Africa Workshop 2.2: Financing of Small and Medium Scale RE Energy Services/Rural Electrification (Room B05/06) <i>Chair- Minister / Moderator – Dr. J.Moulot, UNECA</i></p>
	<p>Renewable energy financing issues in Africa – Ms. Martina OTTO, UNEP Accessing biofuels and renewable energy fund – Mr Thierno TALL, Director - Ecowas Bank for Investment and Development (EBID). New and innovative financing for climate change/renewable energy projects – Mr. Peter Storey, PFAN. Lessons learnt from the AREED approach in West Africa and implication for scaling up – Mr. Secou SARR, ENDA. Carbon Finance for Small Scale Projects – Mr. Till Danckwardt Regional Manager Africa and Middle East Factor 3C Carbon Asset Development Critical success factors in financing decentralized RE projects in Africa and implications for scaling up – Mr. Paul van Aalst, Director, E+Co.</p> <p>Panel Discussion</p>

<p>16:00 – 18:30</p> <p>Presentations 16:00 – 18:00</p> <p>18:00 – 18:30</p>	<p>Parallel session 2: Investment and financing for scaling up renewable energy in Africa Workshop 2.3: Making Carbon Finance work for Africa (Room C05/06) <i>Chair - Minister / Moderator – Mr. Tom Owino, Pioneer Carbon.</i></p>
	<p>Challenges in making CDM work for Africa and Africa’s strategy in the post 2012 period? – Prof. Francis Yamba, CEEZZ Zambia Making Carbon Finance work for Africa –Nairobi Framework – Mr. Benoit Lebot, UNDP. Lessons learnt from institutional Stoves Programme in Lesotho and CDM – Mr. David Hancock, GTZ. Financial Support for CDM projects in Africa: new chances through programmatic CDM – Mr. R. Suennen, KfW Community CDM projects – issues and possibilities – Mr. Robert Van Buskirk, Lawrence Berkeley National Laboratory CDM in Africa – Mr. Daneile Violetti , UNFCCC</p> <p>Panel Discussions</p>

EVENING GALA SPONSORED BY THE MINISTER OF ENERGY SENEGAL.

END OF DAY 1

17 April – Technical Programme	
09:00 – 10:30	Plenary 2: Renewable Energy Technology Transfer and Development. <i>Chair – Minister / Moderator – Ms. Ouedraogo, Executive Secretary, ENDA</i>
09:00 – 10: 00	Presentation of Expert Paper – Prof. Abeeku Brew-Hammond, KNUST. South-South Cooperation for Solar Technology Transfer – Prof Xi Wenhua, UNIDO International Solar Energy Centre – China. Biogas technology development and adaptation – Dr. Chudi Ukpabi, Biogas for Africa Project. Renewable Energy Technologies for Industrial Applications – Dr. P. Monga, UNIDO Lessons in technology development and innovation and implications for scaling up RE technologies in Africa – Prof. Arnulf Grubler's, IIASA.
10:00 – 10:30	Panel Discussions

10:30 – 11:00 - TEA/COFFEE BREAK

11:00 – 12:30	Plenary 3: Capacity Building and Research and Development for renewable energy markets in Africa. <i>Chair – Minister / Moderator – Dr. Youba Sokona, OSS.</i>
11:00 – 12: 00	Presentation of Expert Paper – Prof. Abeeku Brew- Hammond, KNUST. AFREC's capacity building programmes – Dr. Elhag, Africa Energy Commission, AFREC UNIDO/REEP Capacity building manual – Mr. John French, REEEP. AREED Senegal Case study – training of renewable energy technologies enterprises. – Mr. Secou Sarr, ENDA. Investing in capacity development for up-scaling: On what, when, how much and by whom?– Mr. Minoru Takada, UNDP. Prospects of renewable energy e-learning/capacity building in Africa – Ms. Anna Moreno
12: 00 – 12:30	Panel Discussions

12:30 – 14:00 - LUNCH BREAK (Salon Brun)

14:00 – 15:30	Parallel session 3: Technologies Workshop 3.1: Biomass and biofuels technologies in Africa. (Room BC012) <i>Chair – Minister / Moderator – Mr. R. Moshebelele, NEPAD</i>
Presentations 14:00 – 15:00	Introductory Survey of bioenergy technologies – Mr. S. Miertus, UNIDO- ICS. Status of biofuels technologies in Africa – Mr. S. Karekezi, AFREPREN/FWD. The UNIDO Addis Ababa Declaration and outcomes of the ICS/UNIDO Meeting on biotechnology in Ghana and its implications for biofuels markets in Africa – Mr. A. Mhlanga , UNIDO & Dr. Ben Hagan, CSIR – Ghana. SADC ProBEC Project – Ms. Anna Lerner, GTZ Financing sustainable biofuels projects in Africa – Dr. Arrigo della Gherardesca, One BioWorld
15:00 – 15: 30	Panel Discussions (Panelist to include : Prof Sinkala; Dr. Miyake)

<p>14:00 – 15:30</p> <p>Presentations 14:00 – 15:00</p> <p>15:00 – 15:30</p>	<p style="text-align: center;">Parallel session 3: Technologies Workshop 3.2: Solar Energy and Wind. (Room B05/05) <i>Chair – Minister / Moderator – Prof Wenhua – China</i></p> <p>Morocco Case Study / Concentrating Solar Power – Mr. M.Berdai, Morocco. Potential of Solar Technologies in Africa -Ms. Magda Moner, European Commission-JRC. Challenges for private sector involvement of Solar industry in Africa – An entrepreneurs perspective –Mr. Anthony Ighodaro, Solar Solve – Nigeria. Lessons from Tunisia’s Solar water heating programme and implications for scaling up – Mr. Gazi Ben Salem, Tunisia. Large Wind Farms –Project in Egypt - Prof Galal Osman – Egypt.</p> <p>Panel Discussion.</p>
<p>14:00 – 15:30</p> <p>Presentations 14:00 – 15:00</p> <p>15:00 – 15:30</p>	<p style="text-align: center;">Parallel session 3: Technologies Workshop 3.3: Hydro Power Development and Geothermal (Room C05/06) <i>Chair – Minister / Moderator – Dr. Salem Ould Merzoug, High Commissioner, OMVS</i></p> <p>Iceland’s experiences with developing renewable energy resources and implications for scaling up efforts in Africa – Mr. Burgess, Special Advisor to the Minister of Industry, Energy and Tourism on Global Affairs, Iceland. Experiences with developing small hydro projects in Africa and prospects for scaling up – Mr. T. Nhete, Practical Action. Regional project on scaling in Micro Hydro – Mr. Benoit Lebot, United Nations Development Programme. Institutional and Legal aspects in developing major hydro power projects in Africa - Mr. P. Niyongabo, African Union Commission. Sustainability issues in developing large hydropower projects - Mr. Michael Fink, International Hydropower Association UNIDO’s experiences with small and medium hydro technologies in Africa and scope for scaling up – Prof. Tong, UNIDO, ISHP.</p> <p>Panel Discussion.</p>
<p>14:00 – 15:30</p> <p>Presentations 14:00 – 15:00</p> <p>15:00 – 15:30</p>	<p style="text-align: center;">Parallel session 3: Technologies Workshop 3.4 Strategies for scaling up energy efficiency in Industry (including SMEs) in Africa. (Room – Salon Chef De Delegation)</p> <p>Chair Minister of Industry and Mines and SMES Senegal / Moderator – Mr. Sid, Boubekeur, Infrastructure Sector Coordinator CDE Issues for industrial energy efficiency in Africa – Dr. N’guessan M’gbra, Econoler International. Methodology and action plan for implementing energy efficiency in SMES – Dr. Demba Diop Impacts of energy efficiency on productivity (case study Dakar Port and SOTIBA) – Mr. Magaye Ndiaye Energy Management – Mr. Riyaz Papar Lessons learnt in promoting energy efficiency in Ghana and implication for efforts to scale up EE in industry: Prof. Ahenkora, Energy Commission, Ghana. Cleaner Production Centers as a tool for promoting EE in industry . Dr. H. Leuenberger, UNIDO.</p> <p>Round table discussion: (Mr. Maurice Niaty Mouamba; Mr Robert Van Buskirk CNP; CNES; CCIAD, MDES)</p>

15:30 – 16:00 - TEA/COFFEE BREAK

16:00 – 18:30	Plenary 4: Conclusion of Technical Sessions <ul style="list-style-type: none"> • Summary Presentations from Parallel Session and open discussion.
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19:00Hrs - COCKTAIL HOSTED BY THE DIRECTOR GENERAL OF UNIDO (LE MERIDIEN PRESIDENT HOTEL)

18 April – Technical Programme	
09:00 – 12:30	Plenary 5, Plan of Action – Way forward <ol style="list-style-type: none"> 1. Plan of Action 2. Common Conference Declaration. <ul style="list-style-type: none"> • Discussion of Outcomes (by Conference Facilitator)

12:30 – 14:00 - LUNCH BREAK(*Salon Brun*) / BMZ/REN21/AFREPREN Side Event

14:00 – 15:30	Ministerial Dialogue (Ministerial Segment) <i>Chair : Minister of Energy, Senegal Mr. Samuel Amete SARR / Moderator – Minister of Biofuels, Renewable Energy and Scientific Research, Senegal</i> Presentation of Declaration and Action Plan (jointly by representatives of AU, BMZ/GTZ and UNIDO). Ministerial and Partners Dialogue on the Way forward. Mr. Amadou Thierno Diallo - AfDB; Mr. John Moran- OPIC; World Bank, IFC, EU, Dr. Konukiewitz -BMZ, J.M. Gravellini - AfD, Dr. Kande K. Yumkella - UNIDO, Martina Otto - UNEP, FAO, UNDP. Conclusions and Way Forward (by Conference Facilitator)
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15:30 – 16:00 - TEA/COFFEE BREAK

16:00 – 17:30	Closing session Summary remarks by: <ul style="list-style-type: none"> • Minister of Energy Senegal - Mr. Samuel Amete SARR • German Ministry for Economic Cooperation and Development BMZ - Dr. Manfred Konukiewitz, Deputy Director General "Global and Sectoral Policies" and Commissioner for Climate Policy, BMZ. • Commissioner for Infrastructure, Africa Union – Dr. Benard ZOBA <ul style="list-style-type: none"> • Director-General, UNIDO – Dr. Kande K. Yumkella. • Prime Minister of the Republic of Senegal – His Excellency, Mr. Cheikh Hadjibou SOUMARE
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