



***International Conference  
Sustainable Bioenergy Projects in Africa –  
Barriers and Opportunities for Financing***

***29 September to 1 October 2009***

***Dakar, Senegal***

*Organised in close cooperation with the  
United Nations Environment Programme (UNEP)*

***Conference programme***

***Conference Venue:***

Novotel Hotel, Avenue Abdoulaye Fadiga, Dakar, Senegal

***Conference coordinators/contact points:***

Ms. Touria Dafrallah, ENDA-TM, Senegal ([enda.energy@orange.sn](mailto:enda.energy@orange.sn))

Dr. Rainer Janssen, WIP, Germany ([rainer.janssen@wip-munich.de](mailto:rainer.janssen@wip-munich.de))

Ms. Martina Otto, UNEP ([martina.otto@unep.org](mailto:martina.otto@unep.org))

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COMPETE is co-funded by the European Commission in the 6<sup>th</sup> Framework Programme – Specific Measures in Support of International Cooperation (INCO-CT-2006-032448).

## ***Conference Organisation***

This international conference is organised by ENDA-TM, Senegal, E+Co, The Netherlands, and WIP Renewable Energies, Germany, in the framework of the project COMPETE (Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems – Africa), funded by the European Commission, DG Research.

This conference is organised in close cooperation with the United Nations Environment Programme (UNEP).

## ***Conference Objectives***

The conference aims to identify ways to overcome potential barriers and risks to financing of bioenergy projects in Africa, as well as highlight avenues for financing including bilateral and multilateral financing, carbon finance, trade, and policy avenues. Emphasis will be placed on projects and initiatives that ensure social, economic and environmental sustainability and contributing to sustainable rural development.

The conference will bring together speakers and representatives from the investor, financing and donor community, project developers, entrepreneurs, NGOs, international organisations as well as national and international energy experts to share experiences and examples of initiatives and projects that illustrate best practices.

## ***COMPETE conference coordinators/contact points***

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## **Conference Programme**

**TUESDAY 29<sup>th</sup> September 2009**

08:00 – 09:00 Conference Registration

### **Opening Session**

09:00 – 09:20 Welcome Address by the representative of the Government of Senegal  
Prof Sana Faty, Director of Biofuels and Biomass, Ministry of Energy, Senegal

09:20 – 09:30 Welcome Address by Union Economique et Monétaire Ouest Africaine  
Mamadou Dianka, UEMOA, Burkina Faso

09:30 – 09:40 Welcome Address by the Host Organisation  
Dr. Jean-Philippe Thomas, ENDA-TM, Senegal

09:40 – 09:50 Welcome address by United Nations Environment Programme  
Martina Otto, UNEP, France

09:50 – 10:00 Welcome Address by the COMPETE Project Co-ordinator  
Dr. Rainer Janssen, WIP Renewable Energies, Germany

10:00 – 10:30 Coffee Break

### **Session 1: Setting the stage: Barriers, Risks and the Potential for Solutions**

This session will look at the current risks and barriers to financing bioenergy in an African context, including a showcase of best practices to address them.

Timing 10:30 – 12:30 (30 minutes/speaker: 20 mins presentation, 10 mins questions)

Chair Dr. Rainer Janssen, WIP Renewable Energies, Germany

10:30 – 11:00 Financing Bioenergy in an African context  
Thierno Bocar Tall, African Biofuels Renewable Energy Fund (ABREF), Togo

11:00 – 11:30 Barriers, Risks and Potential Solutions for Financing Bioenergy projects  
Paul van Aalst, E+Co Europe, Netherlands

11:30 – 12:00 Barriers to project financing in Africa: potential solutions to be implemented  
Sabera Kahn, Lloyds Financial Ltd., Zambia

12:00 – 12:30 Bioenergy and the GEF and in the context of the Green Economy Initiative  
Dr. Moustapha Kamal Gueye and Martina Otto, UNEP

12:30 – 14:00 Lunch Break

## Roundtable 1: Perspectives on Overcoming Barriers

This Roundtable will bring representatives from various sectors to identify barriers and risks specific to Africa for bioenergy financing including perspectives from the fields of bilateral/ multi-lateral financing and biomass/ bioenergy trade.

Timing	14:00 – 16:00
Chair	Dr. Rocio A. Diaz-Chavez, Imperial College Science, Technology and Medecine, United Kingdom
Rapporteur	Punjanit Leagnavar, United Nations Environment Programme, France
Panellists	Mamadou Dianka, UEMOA, Burkina Faso Frank O. Atta Owusu, KITE, Ghana Touria Dafrallah, ENDA-TM, Senegal Serigne Amar, African Association for Biofuel Promotion, Senegal Mamadou Kane, Wallonie-Brussels Delegation in Dakar, Senegal Mouhamadou Gueye, Technical Advisor to the Presidency, Senegal
16:00 – 16:30	Coffee Break

## Session 2: Bioenergy and Carbon Finance

This session will present challenges and opportunities offered by carbon credits and green certificates for the financing of bioenergy projects in Africa.

Timing	16:30 – 18:00 (20 minutes/speaker: 15 mins presentation, 5 mins questions)
Chair	Thierno Bocar Tall, African Biofuels Renewable Energy Fund (ABREF), Togo
16:30 – 16:50	Carbon Financing of Bioenergy projects in Africa Sebastian von Wolff, OneCarbon International, South Africa
16:50 – 17:10	Clean Development Mechanism: Challenges and opportunities for bioenergy projects Veronica Colerio, UNFCCC Secretariat, Senegal
17:10 – 17:30	The US Voluntary Carbon Market and Sustainable Biofuels Standards : how these are evolving and relate to financing bio-energy projects David Walden, Winrock International, United States of America
17:30 – 17:50	Bioenergy projects and CDM: opportunities El Hadji Mbaye Diagne, COMNAC (National Committee for Climate Change), Senegal

## WEDNESDAY 30<sup>th</sup> September 2009

### Session 3: Successful Bioenergy Projects and Initiatives in Africa

African project developers will present recent successful bioenergy projects and initiatives in East, Southern, and West Africa.

Timing	09:00 – 10:30 (20 minutes/speaker: 15 mins speak, 5 mins questions)
Chair	Prof. Francis Yamba, Center for Energy, Environment and Engineering Zambia (CEEEZ), Zambia
09:00 – 09:20	Financing Sustainable Bioenergy Projects in Africa, Jatropha Outgrower Scheme in Zambia Kamal Desai, Marli Invest, Zambia
09:20 – 09:40	Garalo Bagani Yelen Jatropha-Fuelled Rural Electrification Project in Mali Dr. Ibrahim Togola, Mali-Folkecenter, Mali
09:40 – 10:00	Gold Standard stove project Erik Wurster, E+Co Carbon finance Manager, United States of America
10:00 – 10:20	Sustainable and Participatory Energy Management Project (PROGEDE) Alassane Ngom, Coordinator PROGEDE, Senegal
10:20 – 11:00	Coffee Break

### Round Table 2: The Practical Side of Overcoming Barriers: Financing and Implementation of Sustainable Bioenergy Projects in Africa

This Round Table will involve stakeholders from European and African countries to discuss successful concepts for the financing and implementation of bioenergy projects in Africa with a clear focus on sustainable rural development.

Timing	11:00 – 13:00
Chair	Paul van Aalst, E+Co Europe, The Netherlands
Rapporteur	Secou Sarr, ENDA-TM, Senegal
Panellists	Mireille Afoudji, PERACOD (GTZ), Senegal Michael Hofmann, Camco, United Kingdom Jensen Shuma, TaTEDO, Tanzania Marie-Vincente Padeloup, UN Foundation, France Abdoulaye Diouf, Sugar Company of Senegal, Senegal
13:00 – 14:00	Lunch Break

### Round Table 3: Partnerships for Sustainable Bioenergy Development

This roundtable will involve strategy analysts and representatives from funding agencies and programmes to discuss the different public or private partnership concepts that can be applied to develop sustainable bioenergy projects.

Timing	14:00 – 16:00
Chair	Martina Otto, United Nations Environment Programme, France
Rapporteur	Alexandre Thébaud, WIP Renewable Energies, Germany
Panellists	Secou Sarr, ENDA-TM, Senegal Cliff Spencer, UN Foundation, United States of America Estherine Fotabong, New Partnership for Africa's Development, South Africa Marie Adelaïde Dione, Regional Bank for Solidarity, Senegal Massaër Nguer, Agriculture Research Institute of Senegal, Senegal
16:00 – 16:30	Coffee Break

### Conference Summary and Conclusion

This session will serve to summarise the results of this conference with respect to: recommendations for successful financing and implementation of bioenergy projects in Africa with a clear focus on sustainable rural development.

Timing	16:30 – 18:00
16:30 – 17:30	Summary of Roundtables Rapporteurs of Roundtables 1 to 3
17:30 – 18:00	Conclusion and Outlook of the Conference Touria Dafrallah, ENDA-TM, Senegal Martina Otto, UNEP, France Dr. Rainer Janssen, WIP, Germany

**THURSDAY 1<sup>st</sup> October 2009**

### COMPETE Technical Tour

8:00 – 16:00	Visit of Jatropha plantation in the village Pout and presentation of a jatropha press for the production of jatropha oil.
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## The COMPETE Project



### *COMPETE Objectives*

The Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems – Africa (COMPETE) will establish a **platform for policy dialogue and capacity building** and identify **pathways for the sustainable provision of bioenergy**

- to improve the quality of life and create alternative means of income for the rural population in Africa
- to aid the preservation of intact ecosystems in arid and semi-arid regions in Africa
- to enhance the equitable exchange of knowledge between EU and developing countries

### *COMPETE Activities*

COMPETE will deliver a matrix of multi-disciplinary and cross-sectoral work-packages

- to evaluate current and future potential for the **sustainable provision of bioenergy** in Africa in comparison to existing land use patterns and technologies
- to facilitate **South-South technology and information exchange** capitalising the world-leading RD&D in bioenergy in the key countries Brazil, Mexico, India, China and Thailand
- to develop **innovative tools for the provision of financing** for national bioenergy programmes and local bioenergy projects, including: carbon credits, bilateral and multi-lateral funding instruments, and the role of international trade
- to develop **practical, targeted and efficient policy mechanisms** for the development of bioenergy systems that enhance local value-added, assist local communities and address gender inequalities
- to establish the **Competence Platform** to ensure effective dissemination and knowledge exchange inside and outside the network

### *COMPETE Partnership*

The COMPETE partnership comprises 20 European and 23 non-European partners - 11 partners from 7 African countries, 3 regional African policy and financing bodies (African Development Bank; Food, Agriculture and Natural Resources Policy Analysis Network of Southern Africa; UEMOA - Biomass Energy Regional Program), 9 partners from Latin America and Asia - and the Food and Agriculture Organisation of the United Nations (FAO).

For further information, please refer to: <http://compete-bioafrica.net>

## United Nations Environment Programme (UNEP)



The Mission of the United Nations Environment Programme is to provide leadership and encourage partnership in caring for the environment by inspiring, informing and enabling nations and peoples to improve their quality of life without compromising that of future generations.

### **Bioenergy**

Working in partnership with a variety of stakeholders, UNEP's bioenergy program addresses critical issues surrounding the development of sustainable bioenergy by supporting four priority areas:

- **Sustainable development impacts and synergies:**
  - assessing how social and environmental risks can be mitigated and reduced, and how sustainability can be assured along the entire bioenergy value chain;
- **Resource assessment:**
  - developing tools and resources for decision makers with regard to defining resource baselines, resource efficiency, life-cycle assessments;
- **Market creation and policy interventions:**
  - ensuring that policies and standards that involve bioenergy market creation and advancement are adopted with sustainability guidelines that promote the benefits of bioenergy while reducing pressure on land, the environment and biodiversity;
- **Business development and finance:**
  - supporting opportunities for business development and creative finance for small farmers and small scale producers in an effort to increase benefit sharing for rural and social development.

For more information, please refer to: <http://www.unep.fr/energy/bioenergy/>

### **African Rural Energy Enterprise Development (AREED)**

A program that exemplifies the ideas around creative finance is AREED. UNEP's African Rural Energy Enterprise Development (AREED) project was launched in 2001, with the goal of promoting energy efficient and renewable energy technologies through small and medium-sized enterprises (SMEs). To-date, the AREED has succeeded in developing an ingenious plan of loan provision, building capacity in bankable business plan development, analysing market conditions and identifying efficient energy systems for SMEs. By mid 2007, AREED had approved business investment for 39 enterprises with a market potential of about 330,000 people in various areas including wind pumps in Senegal, LPG distribution in Mali, and biomass energy in Tanzania.

For further information, please refer to: [www.ared.org](http://www.ared.org)



## **Environmental Development Action in the Third World (ENDA TM)**



ENDA TM is an international non-governmental organisation, based in Dakar, Senegal. The organisation consists of several teams and programmes that work in synergy through decentralised entities that are present in Senegal and fifteen other countries of the South.

### ***Main Objective***

The overall mission of ENDA TM is to find ways and means to fight against poverty as well as social and environmental deterioration, and to facilitate social and economic changes.

### ***Energy, Environment and Development programme***

The activities of the “Energy, Environment and Development” programme of ENDA TM aim at analysing the links between energy, environment and development under multilateral agreements on the environment, and more particularly on climate change and desertification, in order to help African professionals/actors to better use methods and tools that help find solutions to the crucial challenges of the African continent, and to strengthen North-South cooperation and dialog.

The results are shared within international networks, which enable civil societies of the South, in particular those of Africa, to contribute to the international debate.

For further information, please refer to: [www.enda.sn](http://www.enda.sn)

News of ENDA Energy Programme on: <http://www.endaenergy.org>

## ***Programme Overview – COMPETE Conference and Meeting***

### **29 September 2009 (Tuesday)**

COMPETE Conference 'Sustainable Bioenergy Projects in Africa - Barriers and Opportunities for Financing'

### **30 September 2009 (Wednesday)**

COMPETE Conference 'Sustainable Bioenergy Projects in Africa - Barriers and Opportunities for Financing'

### **1 October 2009 (Thursday)**

COMPETE technical tour

### **2 October 2009 (Friday)**

Internal COMPETE Meeting

## ***Accommodation (Same as conference and meeting venue)***

### **Venue**

Novotel Hotel, Avenue Abdoulaye Fadiga, Dakar, Senegal

### **Hotel contact**

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Assistante Commerciale Interne

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A limited number of rooms have been reserved for the conference attendees at the Novotel hotel. Attendees are invited to book rooms at Novotel through the conference organisers. Since the number of rooms is limited, we recommend to contact the conference organisers as soon as possible and to provide arrival and departure dates for the room reservation.