



***International Workshop***  
***‘Bioenergy Policies  
for Sustainable Development in Africa’***

***25-27 November 2008***

***Bamako, Mali***

***Workshop Programme***

***Workshop Venue:***

Hotel Olympe International  
2462 Sis Badala Extension, Located on top of Badala Hill, on the Express Road to the  
International Senou Airport, Bamako, Mali

***Workshop coordinators/contact points:***

Dr. Ibrahim Togola, Mali-Folkecenter (ibrahim.togola@malifolkecenter.org)

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

Ms. Khamarunga Banda, FANRPAN, South Africa (khamarunga@hotmail.com)

This workshop is implemented in close cooperation with the United Nations Environment Programme (UNEP), and the Roundtable on Sustainable Biofuels (RSB), an initiative of the EPFL Energy Centre. The workshop programme will include a RSB Regional Consultation for West Africa on 26 November.



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).

## 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).

COMPETE Website: [www.compete-bioafrica.net](http://www.compete-bioafrica.net)

### **Workshop Organisation**

This international workshop is organised by Mali-Folkecenter and WIP Renewable Energies, Germany, in cooperation with the Food Agriculture and Natural Resources Policy Analysis Network (FANRPAN), South Africa, in the framework of the project COMPETE, funded by the European Commission, DG Research.

Furthermore, this workshop is implemented in close cooperation with the United Nations Environment Programme (UNEP), and the Roundtable on Sustainable Biofuels (RSB), an initiative of the EPFL Energy Centre.

### **Workshop Objectives**

The main objective of this workshop is to contribute to the development of sound and successful bioenergy policies in Africa.

For this, it is necessary to share the findings of on-going policy initiatives in Africa and to discuss future developments with high-level decision-makers from Africa with the aim to promote the development of bioenergy policies in Africa.

Today, it is widely accepted that coherent bioenergy policies in Africa are urgently needed on national, regional and international level to:

- **Exploit the benefits of innovative bioenergy solutions** with respect to sustainable rural development and improved livelihoods, increased energy access and income generation, alternative markets for agricultural products, security of energy supply, and diversification of energy sources
- **Avoid the dangers of negative social and environmental implications**, with regards to land competition, land ownership, insufficient value creation for local farmers, and the 'fuel versus food' debate.

In order to contribute to the workshop objectives the workshop programme will include a RSB Regional Consultation for West Africa on 26 November.

### **COMPETE workshop coordinators/contact points:**

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Participants of this COMPETE workshop will include decision makers from several African countries, representatives from the Private Sector, NGOs, the donor community, FAO, UNEP, international initiatives as well as national and international energy experts and stakeholders.

## ***Workshop Programme***

### **TUESDAY 25<sup>th</sup> NOVEMBER 2008**

08:00 – 09:00      Workshop Registration

#### **Opening Session**

09:00 – 09:10      Welcome Address by the Host Organisation  
Dr. Ibrahim Togola, Mali-Folkecenter

09:10 – 09:20      Welcome Address by the Round Table on Sustainable Biofuels  
Annie Sugrue, Round Table on Sustainable Biofuels (RSB)

09:20 – 09:30      The EC Project COMPETE – Activities and Results  
Dr. Rainer Janssen, COMPETE Project Co-ordinator, WIP, Germany

09:30 – 10:00      Official Opening Addresses  
Representative from Mali Government, Ministry of Energy,  
Representative from Mali Government, Ministry of Agriculture

10:00 – 10:30      Coffee Break

#### **Session 1: Bioenergy Policies and Strategies in Africa**

Chairs: National Director of Energy and Stanford Mwakasonda, University of Cape Town - ERC

10:30 – 10:50      Bioenergy Policies in Mali – Issues of Energy Supply and Energy Security  
Mr. Sinalou Diwara, Direction of Energy

10:50 – 11:10      Bioenergy Policies in Mali – Agriculture and Land Use Issues  
Mr. Dalla Diarisso, Direction of Agriculture

11:10 – 11:30      Bioenergy Policies in Mali – Environmental Issues  
Mr. Kouloutan Coulibaly, Direction of Nature Conservation

11:30 – 11:50      COMESA Strategies in the field of Biomass and Bioenergy  
Dr. Angel Daka, COMESA Coordinator CAADP Pillar 3, Zambia

11:50 – 12:10      Bioenergy Policies in Tanzania  
Estomih Sawe, TaTEDO, Tanzania

12:10 – 12:45      Discussion

12:45 – 14:00      Lunch Break

## **Session 2: Bioenergy Initiatives for Sustainable Rural Development in Africa**

Chairs: National Director of Agriculture and Dr. Rocio Diaz, Imperial College, UK

- 14:00 – 14:20      Jatropha-fuelled Rural Electrification Project in the Village of Garalo – Case Study implemented within the Mali World Bank Programme  
Ismaïl Touré, Chairman of AMADER (Malian Agency for the Development of Domestic Energy & Rural Electrification), Mali
- 14:20 – 14:40      Jatropha Network Activities in Mali  
Mr. Ousmane Ouattara, Mali-Folkecenter
- 14:40 – 15:00      Experiences of the Union of Jatropha Cooperatives in Koulikoro  
Mr. Mamadou Sangare, Union of Jatropha Cooperatives, Mali
- 15:00 – 15:20      Discussion Round on 'Financing Sustainable Biofuel Projects in Africa'
- 15:20 – 15:50      Coffee Break

## **Session 3: The Trade-offs of Bioenergy in Africa – Ensuring Sustainability**

Chairs: General Director of Mali Biocarburants and Touria Dafrallah, ENDA, Senegal

- 15:50 – 16:10      Biofuels in Africa – The Land Use Issue  
Dr. Helen Watson, University of KwaZulu-Natal, South Africa
- 16:10 – 16:30      Ensuring the Environmental Sustainability of Jatropha Production and Use  
Dr. Guido Reinhardt, IFEU Institute, Germany
- 16:30 – 16:50      Lessons learnt from Bioenergy Projects in Africa (Mali, Honduras, Mozambique)  
Winfried Rijssenbeek, FACT Foundation, The Netherlands
- 16:50 – 17:10      Bioenergy and Development in Sub-Saharan Africa: Are the Policies Conducive?  
Dr. Charles Jumbe, FANRPAN, South Africa
- 17:10 – 17:30      FAO 'State of Food and Agriculture Report 2008': Biofuels – Prospects, Risks and Opportunities  
Astrid Agostini, UN Food and Agriculture Organisation (FAO)
- 17:30 – 18:00      Discussion Round on 'Ensuring Sustainability'

## **WEDNESDAY 26<sup>th</sup> NOVEMBER 2008**

### **Round Table 1 (08:30 – 10:00)**

#### **Bioenergy Policy Development for Africa – The COMPETE Declaration on Sustainable Bioenergy for Africa**

08:30 – 09:45      Round Table Discussion

Chair: Ismaïl Touré, Chairman of AMADER, Mali and Dr. Rainer Janssen, WIP, Germany

Rapporteur: Dr. Ibrahim Togola, Mali-Folkecenter

Panellists:

- Mr. Hamata Ag Hautafaye, Ministry of Energy, Mali
- Mr. Mamadou Sangare, Union of Jatropha Cooperatives, Mali
- Dr. Angel Daka, COMESA, Zambia
- Dr. Rocio Diaz, Imperial College, United Kingdom
- Dr. Veronika Dornburg, Utrecht University, The Netherlands

09:45 – 10:00      Conclusions Round Table 1

10:00 – 10:30      Coffee Break

**14:00 – 14:30      Address of the Minister of Agriculture, Mali**

## **Regional Consultation West Africa – Round Table on Sustainable Biofuels (10:30 – 18:00)**

**10:30 – 10:45**      **Welcome**

**10:45 – 11:30**      **The Need for an International Standard**

- Introduction to the Roundtable on Sustainable Biofuels and introduction of the principles and criteria as defined through the consultative process
- The Experience of multi-stakeholder standardization projects

**11:30 – 13:00**      **Break-out Session: Criteria for Environmental Performance**

In smaller groups, draft criteria related to environmental sustainability of biofuels will be discussed. Main topics include:

- Protection of High Conservation Value areas (biodiversity, ecosystem services...)
- Sustainable management of water and soil
- Greenhouse Gas balance
- Impacts of land use change (direct and indirect) on biodiversity and GHG balance
- Biotechnologies

13:00 – 14:00      Lunch Break

**14:30 – 15:30**      **Break-out Session: Criteria for Social Performance**

In smaller groups, draft criteria related to social impacts of biofuels will be discussed. Main topics include:

- Community consultation
- Labor and land rights
- Rural development
- Food security

**15:30 – 17:00**      **Break-out Session: Implementation**

In smaller groups, issues related to implementation will be discussed, e.g. barriers to implementing sustainability criteria, the roles of various actors in the supply chain, the way to implement sustainability on small scale production.

**17:00 – 17:30**      **Report back, discussion, summary**

**17:30 – 18:00**      **Perspectives and Outlook**

## **Closure of COMPETE Workshop and RSB Regional Consultation**

18:00 – 18:30      Dr. Ibrahim Togola, Mali Folkecenter  
Dr. Rainer Janssen, COMPETE Project Co-ordinator, WIP, Germany  
Sebastien Haye, Round Table on Sustainable Biofuels (EPFL)

## THURSDAY 27<sup>th</sup> NOVEMBER 2008

### OFFICIAL OPENING CEREMONY of the Garalo Bagani Yelen Jatropha-fuelled Rural Electrification Project for 10.000 People in the Municipality of Garalo

12:00 – 12:30      Address of the Minister of Energy, Mali

12:30 – 13:00      Address of the Minister of Agriculture, Mali



#### Garalo Bagani Yelen – A New Paradigm of Energy for Sustainable Development



In the context of climate change and ever more expensive and insecure fossil fuel supplies, MFC Nyetaa has been working for 7 years to develop pilot projects to demonstrate that pure Jatropha oil can fuel Mali's future development in a sustainable way, to the benefit of local people. These projects, focusing on pure Jatropha oil (*see photo, woman collecting Jatropha seeds*) as a diesel substitute for multi-functional platforms, transportation and rural electrification, are acting as a model for future electrification projects in Mali, West Africa, and internationally.

The Garalo Bagani Yelen Project represents a major part of these efforts. The objective is to reduce poverty of the village population and improve in greening the planet by concretely setting up and operating village electricity with Jatropha fuelled generator systems for 10 000 people in the Commune of Garalo, Mali. The project has been developed by MFC and has two main axes which are executed by different partner organisations:

#### **A. Rural electrification of the village of Garalo.**

ACCESS, an innovative Malian rural energy service company, is supported by MFC and FACT Foundation to install and run a 300kW power plant which can run on diesel or on pure Jatropha oil to provide energy services to the population, with a mixture of domestic and productive customers. The productive customers are all important to the wider local economic development of the village and the commune. This part of the project is funded by AMADER (the Malian Agency for the Development of Domestic Energy & Rural Electrification) and SHGW (Green Forest Foundation, the Netherlands).



### ***B. Sustainable production of pure Jatropha Oil for local use.***

MFC is executing this part of the project in partnership with the local population and is supported by FACT Foundation with funding from SHGW. The population of the commune of Garalo is setting up 1 000 ha of Jatropha plantations (of which around 600 hectares have already been achieved) to provide the oil needed for the power plant that will provide clean electricity. The total area is made up of many small plantations of between 0.5 and 5 hectares, belonging to and managed by local farmers who use intercropping and sustainable agriculture techniques. This production provides new diversified incomes for local people. MFC is organising the project activities and provides technical support.

This pilot project is ambitious wide reaching, and is based on the long-standing request of the population to have access to modern energy services. This innovative project will provide electricity and other modern energy services to more than 10 000 people of Garalo commune, transforming the local economy. It does so by providing power for productive use in small industries and businesses, generating employment, and by supplying power for social uses in schools, the maternity clinic and community buildings as well as for domestic use. It will achieve all this while still protecting the local environment and supporting local community integrity and the social fabric of the commune. Crucially the project works very closely with the local population and the municipality. As such this kind of project represents the new paradigm for sustainable development in Africa.



The three Garalo gensets in position (left). The power house at night producing power for the village (right).



#### ***Focus on livelihoods in Garalo.***

Masara Kané (on the right of this picture) runs a bustling restaurant on the main road through Garalo. With the arrival of electricity she says she can stay open longer and has increased revenues. She uses electricity for lighting and for charging mobile phones. She is now thinking about investing in a refrigerator, which would allow her to sell cold water and soft drinks.



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

### **25 November 2008 (Tuesday)**

COMPETE Workshop 'Bioenergy Policies for Sustainable Development in Africa'  
Day 1

### **26 November 2008 (Wednesday)**

COMPETE Workshop 'Bioenergy Policies for Sustainable Development in Africa'  
Day 2  
Regional Consultation West Africa – Round Table on Sustainable Biofuels

### **27 November 2008 (Thursday)**

Site visit to Jatropha-fuelled Rural Electrification Project in Garalo

### **28 November 2008 (Friday)**

Internal COMPETE Meeting

### **Accommodation (same as workshop and meeting venue)**

Hotel Olympe International

### ***Contact Hotel***

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2462 Sis Badala Extension, Located on top of Badala Hill, on the Express Road to the  
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