



Workshop COMPETE and RE Impact

'Bioenergy for Rural Development in Africa and Asia'

30 June 2009

Hamburg, Germany

Programme

Workshop Venue:

CCH-Congress Center, Hamburg, Germany

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Workshop Organisation

This workshop on "Bioenergy for Rural Development in Africa and Asia" is jointly organised by the EU co-funded projects "Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems- Africa (COMPETE)" and "Rural Energy Production from Bioenergy Projects: Providing regulatory and impact assessment frameworks, furthering sustainable biomass production policies and reducing associated risks (RE-Impact)".

Workshop Objectives

Bioenergy is a sector that offers significant opportunities for rural development in Africa and Asia. The use of biomass for energy generation can contribute to the provision of affordable and accessible electricity services, and in schemes for the production of biofuels for transport such as biodiesel. Rising fossil fuel prices, energy security, global warming and rural poverty are all key drivers behind the renewed interest in small and large scale biomass based electricity production schemes. These schemes span both age-old and modern energy conversion technologies, are the main energy source for about one-third of the world's population, and will be critical to the achievement of sustainable development across the developing world.

The aim of this workshop is to present local experiences and results from both projects. Dedicated presentations on specific issues such as rural development and improved livelihoods, land use and land use conflict, biodiversity, and appropriate small and large scale bioenergy technologies for waste management, electricity and fuel production, will be done by African and Asian partners of COMPETE and RE-Impact.

More information on the projects COMPETE and RE-Impact can be found at www.compete-bioafrica.net and www.ceg.ncl.ac.uk/reimpact/.

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Workshop Programme

TUESDAY 30th June 2009

10:00 – 10:40 Workshop Registration

Opening Session

10:40 – 10:45 Welcome Address by the Conference Organiser
Maurizio Cocchi, ETA-Florence, Renewable Energies, Italy

10:45 – 10:50 The EC Project COMPETE – Activities and Results
Dr. Rainer Janssen, COMPETE Project Co-ordinator, WIP, Germany

10:50 – 10:55 The EC Project RE Impact – Activities and Results
Dr. Jaime Amezaga, RE-Impact Coordinator, Newcastle University, UK

Session 1: Bioenergy for Rural Development in Asia

Chair: Dr. Neil Bird, Joanneum Research, Austria

10:55 – 11:15 Bioenergy Transition in Rural China
Dr. Timm Tennigkeit, Centre for Mountain Ecosystem Studies, China

11:15 – 11:35 A Few Centimeters Wider: Lessons on Stove Adaptation in China
Su Yufang, Yunnan Academy of Social Sciences/Centre for Mountain Ecosystem Studies, China

11:35 – 11:55 Lessons Learned on Decentralised Rural Energy Supply: Jatropha Power in Chhattisgarh
Arvind Reddy, Winrock International India

11:55 – 12:15 Social Impact Assessment of four rural bioenergy production models in Chhattisgarh
Jennifer Harrison, Newcastle University, UK

12:15 – 13:15 Lunch Break

Session 2: Bioenergy for Rural Development in Africa

Chair: Dr. Rocio Diaz-Chavez, Imperial College London, UK

13:15 – 13:35 Integrated waste management using biogas in a decentralised municipal framework
Greg Austin, AGAMA, South Africa

- 13:35 – 13:55 Modelling the economic sustainability of Jatropha using case studies
Graham von Maltitz, CSIR, South Africa
- 13:55 – 14:15 Land Use and Land Use Change in Africa
Dr. Helen Watson, University of KwaZulu-Natal, South Africa
- 14:15 – 14:35 Potential Impacts of Production and Use of Biofuels on Food Security in
Botswana
Prof. Donald Kgathi, University of Botswana
- 14:35 – 15:00 Coffee Break
- 15:00 – 15:20 Bioenergy in Africa - A Driver to Hunger?
Dr. Hamimu Hongo, FELISA, Tanzania

**Round Table: Opportunities and Challenges of Bioenergy for Rural Development
in Asia and Africa**

Chair: Dr. Rainer Janssen, WIP, Germany

- 15:20 – 16:30 Round Table Discussion

Panellists:

- Private sector
- Development partner
- Research representative
- Civil society representative

- 16:30 – 16:40 Workshop Summary and Conclusions
Dr. Jaime Amezaga and Jennifer Harrison, Newcastle University, UK
Dominik Rutz, WIP, Germany

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



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

The RE-Impact Project

RE-Impact Objectives

This initiative aims to develop and promote a sustainability framework to identify and assess appropriate areas for integrated bioenergy project land use systems, considering sustainable (renewable energy production), pro-poor, water allocation quality and biodiversity issues.



The project started in May 2007 and will run for 40 months, involving in-country stakeholder workshops and impact modelling. One of the main aims of the project is to produce an accessible and durable framework for assessing the possible impacts of biofuel plantations in the partner countries with a view to extrapolating results further afield.

RE-Impact Activities

A selection of case studies in carefully selected target countries; South Africa, Uganda, China and India, are being assessed to learn from, and to provide planning and implementation guidance for; policy makers, NGOs and the bioenergy business community at different levels.

Project Activities are covered through a number of interlinked work packages which include:

- A compilation of **trends and baseline estimates** in the Action Countries and relevant surroundings;
- Consideration of an overall **sustainability assessment framework** into which methodologies for assessment of **water, biodiversity** and **social** impacts feed;
- **Climate change policy** as a push factor for bioenergy, including CDM opportunities.

Project dissemination occurs at multiple levels from learning and capacity building in the Action Countries to policy support at National and Regional levels to ensure effective take up of the proposed strategies and methodologies at appropriate scales.

RE-Impact Partnership

The RE-Impact team is led by the Centre for Land Use and Water Resources Research (CLUWRR) at Newcastle University with partners in Asia: the Centre for Mountain Ecosystem Studies (CMES) in China, Winrock International India and the Indian Institute of Technology, Delhi; Africa: the Council for Scientific and Industrial Research, South Africa and UNIQUE Forestry Consultants, East Africa; and Europe: Joanneum Research, Austria.

RE-Impact website: www.ceg.ncl.ac.uk/reimpact



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