



LAMNET – A Global Network on Bioenergy

Strategies and Results

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3rd LAMNET Project Workshop
CNI – National Confederation of Industry, Brasilia, Brazil, 3 - 4 December 2002



Welcome to the 3rd LAMNET Workshop in Brazil

Organised by

- CENBIO –
The Brazilian National Reference Centre on Biomass
- EUBIA – The European Biomass Industry Association
- ETA – Florence
- WIP – Munich



Supported by

- CNI – Brazilian National Confederation of Industry
- BUN – Biomass Users Network



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Scientific Content of the 3rd LAMNET Workshop

Bioenergy Strategies and Policies

- Impact of the World Summit, Biomass/Bioenergy Trade
- Electricity production based on renewable resources

Biofuels and Sustainable Electricity Generation in Latin America

- Ethanol use in Costa Rica, Bio-oil production in Brazil
- Sugar cane based electricity generation in Cuba

Ethanol based Fuel Cell Technologies

- Production of hydrogen from ethanol
- Direct electro-chemical conversion of ethanol

Innovative Bioenergy Technologies

- Sugar cane bagasse cogeneration
- Biomass pelleting, Biofuel driven micro-turbines

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LAMNET - Latin America Thematic Network on Bioenergy

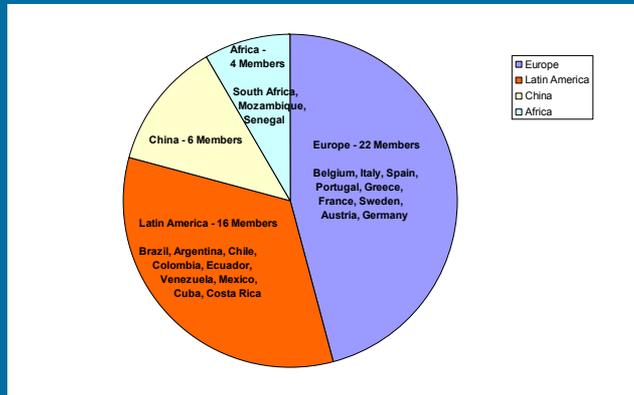
- Global network of 48 institutions from 24 countries
- Transnational forum for the promotion of sustainable use of biomass
- Funded by the European Commission within the programme 'Confirming the International Role of Community Research' Project duration (Jan 2002 – Dec 2004)
- Coordinated by WIP, Germany, in partnership with ETA, Italy and the European Biomass Industry Association, EUBIA
- Latin American organisations CENBIO, Brazil and UNAM, Mexico act as coordination support points

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LAMNET Membership



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LAMNET Thematic Priorities

- Analysis of the Energy Policy Framework
- Assessment of Energy Demand and Biomass Resources
- Assessment of available Technologies and Systems
- Development and Implementation of Technology and Policy Options for the Promotion of Bioenergy

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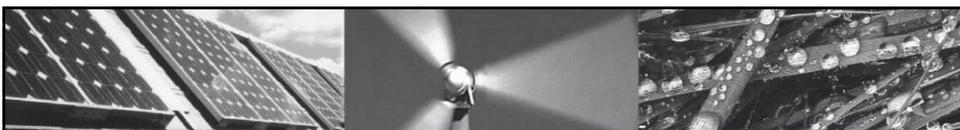


Focus of Network Activities - 1

- Co-generation of **Heat and Electricity** based on sugar cane bagasse and other suitable biomass resources
- Large-scale implementation of **bioethanol production** (sugar cane, sweet sorghum, agro-forestry residues)
- Creation of a **global bioethanol market**
- Promotion of **Integrated Bioenergy Complexes** (Bioenergy-Food-Feed Complexes)



Distillation Column, Copersucar, Brazil



Focus of Network Activities - 2

- Promotion of small- and medium-scale decentralised bioenergy systems
 - Advanced pelletising technologies
 - Micro-turbines for co-generation
 - Micro-distilleries for ethanol production,
 - Charcoal production from residues
 - Efficient biomass cooking stoves



Pelletiser machine, KEMYX, Italy



Events of the LAMNET Project 2002

1st LAMNET Workshop on the occasion of the
12th European Conference and Technology Exhibition
on Biomass for Energy, Industry and Climate Protection,
Amsterdam, 19 June 2002



Contributions

- Towards a European Research Area, D. Pottier, EC
- Promotion of Decentralised Bioenergy systems, G. Grassi, EUBIA
- Biofuel Programs for Sustainable Development, J. Moreira, CENBIO
- Cogeneration in the Cuban Sugar Cane Industry, P. Lopez, MINAZ
- CDM and JI Projects in Latin America, R. Geres, FutureCamp

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2nd LAMNET Workshop

Durban, South Africa, 19-21 August 2002
WIP, Illovo Sugar Ltd.

Joint event of three Thematic Networks

- **CARENESA**
Cane Resources Network for Southern Africa
- **SPARKNET**
Network on Sustainable Energy for Rural Households
- **LAMNET**
Latin America Thematic network on Bioenergy



Sezela Sugar Mill
Source: Illovo Sugar Ltd., South Africa

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2nd LAMNET Workshop in Durban - Contributions

Inauguration Addresses by

- **D. Macleod**, Managing Director of Illovo Sugar
- **Honourable N. Singh**, KwaZulu-Natal Minister of Agriculture and Environmental Affairs
- **Dr. Adi Paterson**, Deputy Director-General of the South African Department of Science and Technology



Green Energy Certificate System for South Africa, G. Morris, Agama Energy

New Renewable Fuels Program in Colombia, D. Cala-Hederich, Corpodib

Biomass Technology Development in China, Wang Mengjie, CAREI

Advanced Pelleting Technology, F. Cariello, ETA-Florence



2nd LAMNET Workshop in Durban - Results

- The **South African Sugar Industry** has a large potential to contribute to the global movement towards sustainable green energy. Thereby, the economic viability of green energy is dependant upon the **interventions of national governments** and requires **incentives through supportive policies**.
- The **pelleting technology** will be an important step in providing **energy from bagasse on a year-round basis** leading to the simplification of material handling as well as the economic storage and transportation of a standardised biomass fuel.
- **Bioenergy technologies** have the potential to significantly contribute to sustainable development. Thereby, a **balance is required between environmental/conservation, economic and social interests** adjusted appropriately to suit specific framework conditions.



LAMNET Project Workshops

Confirmed in 2003

- **LAMNET Workshop in China, early 2003**
- **LAMNET Workshop in Mexico, September 2003**
co-organised by UNAM
- **LAMNET Workshop in Cuba, Habana, 11-13 November 2003**
co-organised by the Cuban Ministry of Sugar

In 2003 or 2004

- Argentina or Chile
- Brazil, co-organised by CENBIO
- Europe, organised by WIP/ETA
- 3 LAMNET Workshops in China

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LAMNET Dissemination Activities

- **LAMNET Project Web site: www.bioenergy-lamnet.org**
- **LAMNET Project Database**
- **LAMNET Project Newsletter (2 issues per year)**
- **Brochure on the occasion of the World Summit on Sustainable Development, Johannesburg, South Africa**
- **Publications in Scientific Journals**
 - International Sugar Journal, Vol. 104, June 2002, No. 1242
 - Proceedings of the '12th European Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection'



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LAMNET
Latin America Thematic Network on Bioenergy

Project scope | Network Membership | Events | Publications | Links

The project Latin America Thematic Network on Bioenergy (LAMNET) is funded by the European Commission in the framework of the specific research and technological development programme 'Confirming the International Role of Community Research'.

The main objective of LAMNET is to establish a trans-national forum for the promotion of sustainable use of biomass in Latin America and other emerging countries.

This global network of 48 institutions (Knowledge Centres and SMEs) from 24 countries worldwide is set up to face urgent needs for improved and regionally adapted bioenergy applications.

The network is coordinated by WIP-Renewable Energies, Germany, in partnership with ETA, Energia Trasporti Agricoltura, Italy and the European Biomass Industry Association, EUBIA. The Latin American organisations CENBIO (Centro Nacional de Referencia en Biomassa), Brazil and UNAM (Universidad Nacional Autónoma de México), México act as coordination support points on the South- and Central American continent.

Second Project Workshop in Durban, South Africa
19/08/2002 - 21/08/2002
[click here for more details](#)

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LAMNET Database

Scope
Latin America, China and selected African Countries

Content

- Composition of the Energy Consumption (heat, electricity, transport)
- Energy-Mix (hydro-energy, wind-energy, bio-energy, solar-energy)
- Energy Import/Export
- Energy Prices
- Bioenergy Resources (crops, wood, manure, agricultural residues, etc.)
- Existing Energy Policy Framework (e.g. biofuel programs)
- Best Practice Bioenergy Plants and Planned Installations

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LAMNET - D@tabase
Latin America Thematic Network on Bioenergy

Welcome to the
LAMNET - D@TABASE

Please use the Navigation Window on the left...

In order to move up one level, please click on 'Home'

Please recognize, that this database is still under development

For comments please contact us at contact@bioenergy-lamnet.org

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LAMNET

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LAMNET-NEWS

1st Issue of the LAMNET Newsletter –
June 2002 – is available at
www.bioenergy-lamnet.org

2nd Issue of the LAMNET Newsletter
is available at this workshop

Contributions are requested for the
3rd Newsletter Issue

LAMNET'S NEWSLETTER (June 2002)

LATIN AMERICA THEMATIC NETWORK ON BIOENERGY

LAMNET

Bioenergy
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In order to promote the sustainable use of biomass in Latin America is the general objective of this Thematic Network to establish a transnational forum of Knowledge Centres (Universities, R&D Institutes and SMEs) from Latin America in collaboration with such organisations from European and non-European countries. The activities of the Thematic Network include: the analysis of existing energy policy frameworks, the assessment of energy demand and biomass resources, the analysis of available bioenergy technologies and systems as well as the development and implementation of policy options for the promotion and deployment of bioenergy.

The European Union is a sponsor of the Thematic Network. The Thematic Network is a project of the European Union.



LAMNET Associate Membership

The Associate Membership

- facilitates the involvement of other interested organisations

Associate Members

- will be regularly informed about events and activities of the LAMNET project
- are invited to make use of the dissemination platforms established in the framework of the LAMNET project

Within the LAMNET project no budget can be allocated to Associate Members.

The image shows a document titled "Latin America Thematic Network on Bioenergy - LAMNET ASSOCIATE MEMBER APPLICATION FORM". It includes a logo at the top left and a list of fields for personal and organizational information: Family Name, First Name, Firm/Organisation, Address, Postal Code and City, Country, Tel, Fax, eMail, and UPC. Below the form, there is a note stating that Associate Members will be regularly informed about events and activities, and another note stating that Associate Members are invited to make use of dissemination platforms. At the bottom, there are fields for Signature and Date, and a small logo for the European Commission.

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Administrative Issues of the LAMNET Project

First Scientific and Financial Report in January 2003

- Member Cost Statement – Annex D of Membership Agreement
- Original Tickets and Invoices

Involvement of Non-active LAMNET Members

- Agreement on Transfer of Funds

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