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## 1. Editorial

First of all, we wish all our readers a warm and sunny summer. We are pleased to welcome you to our May 2007 newsletter and are delighted to announce the 15<sup>th</sup> Biomass Conference and Exhibition which will take place very soon in May, 2007 in Berlin. As always we are very much looking forward to this, one of the largest biomass events in the world. In a period of significant fuel supply uncertainty, biomass is well placed to offer an important alternative to fossil fuels. The acknowledgement from the Commission that biofuels represent the only short-medium term alternative to petroleum and diesel just goes to show the importance of bioenergy for the future.

In the last couple of years there has been significant political movement which has helped the biomass sector. One such example is the Biomass Action Plan (BAP) which was released in December 2005. EUBIA positively welcomes this strategy document and we are encouraged by its ambitious target of 150 Mtoe of biomass production by 2010 up from 69 Mtoe in 2003. The Biofuels Directive (May, 2003) set the well known target of 5.75 % for biofuels to replace traditional transport fuels. Within the Energy Roadmap, the European Commission has now increased this to an overall EU-27 target of 10% of biofuels by 2020. Whereas the target for all renewables has been set at an overall EU-27 figure of 20 %. It is still undecided how the member states will collectively make up this 20% and it is a hot area of debate at the moment. The launching of the European Biofuels Technology Platform on the 8<sup>th</sup> of June 2006 by BIOFRAC is also another important development for biofuels.

## **2. What is EUBIA ?**

### **Background**

EUBIA, the European Biomass Industry Association, was established in 1996 as an international not for profit association in Brussels, Belgium. It groups together market forces, technology providers, and research centres, all of them active in the field of biomass. Our main objective is to support the European biomass industries at all levels, promote the use of biomass as an energy source, to develop innovative bioenergy concepts and fostering international co-operation within the bioenergy field.

### **Our mission: taking biomass forward**

EUBIA's vision is a strong and reliable biomass sector able to contribute significantly to a global, sustainable energy system, preserving ecosystem's equilibrium and ensuring economic development.

EUBIA intends to represent, protect and promote the interests of the European biomass industry in general, and the interests of its members in particular. Membership of EUBIA is open to all companies and organisations that have an interest in the area of biomass and bioenergy.

EUBIA has gained an extensive experience in the bio-energy field through the coordination and participation to a number of high-level, international projects and promotion activities.

EUBIA has started major international co-operation activities with third countries such as China, Brazil, the Russian Federation, Latin American, African and Caribbean countries.

### **Our daily activities**

As an industry association, EUBIA aims at helping small and medium enterprises (SMEs) to keep up with relevant technological and legal developments. We are well placed as an information multiplier, disseminating technologies and know-how to SMEs across the entire biomass industry. We also act as a medium to identify shared problems and ensuring that research focuses on real business needs.

EUBIA aims at influencing key European policies affecting the biomass industry; we intend to represent and promote the European biomass industry interests. In particular, we participate in the elaboration of some policy documents (e.g. drafts of European directives) that are submitted to the EU institutions as sectorial inputs.

EUBIA promotes bioenergy activities at small, medium and large scale in collaboration with local and national authorities, biomass providers, industries, research centres and local partners. In particular, EUBIA contributes to identify and promote modern concepts, commercial technologies and biomass resources able to penetrate energy industrial markets.

EUBIA is frequently a partner of international projects co-financed by the European Commission within the EIE and different FP frameworks. Within the field of biomass-based technical solutions, EUBIA has gained broad knowledge in terms of concept developing and has access to a large pool of expertise and a wide range of high-profile contacts.

EUBIA is committed to continue demonstrating that bioenergy is able to cover a large fraction of the global energy demand. In particular, we strongly believe that a promising pathway consists in developing and deploying integrated bioenergy systems, such as bio-refineries.

EUBIA is a founding member of EREC, the European Renewable Energy Council, which is an umbrella organisation of the leading European renewable energy industry and research associations active in the sectors of photovoltaic, wind, small hydropower, biomass and solar thermal. Thereby, we multiply the effect of our action in the policy shaping field. You can read our latest joint declaration, focusing on the need for an EU Directive for the promotion of RES Heating and Cooling, on EREC's website: [www.erec-renewables.org/](http://www.erec-renewables.org/)



EUBIA's headquarters are at Rue d'Arlon 63-65, in the heart of the European quarter of Brussels, located within a few minutes walk of the Commission, the Council and the Parliament offices. Our office is also only 10 minutes away from the city centre, and Brussels International Airport can be reached within 15 minutes by car or 30 minutes by train.

#### **A strategic office location**

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#### **4. International Involvement**

Our commitment in the field of biomass and bio-energy is widely recognised.



The pro-active role of EUBIA in the promotion of international cooperation has been widely acknowledged. In January 2004, EUBIA was awarded by the European Commission for the Best Renewable Energy Partnership with Developing Countries, within the framework of the Campaign for the Development of Renewable Energies Sources, foreseen by the European White Book (Campaign for Take-Off for Renewable Energies).

EUBIA is opening major co-operation and business opportunities in third countries, in particular in China, Brazil and the Russian Federation, all of which represent wide and promising bioenergy markets. The most recent achievement consists of a Framework Agreement :

- Agreement "between EUBIA and the Federal Agency of Science and Innovations of the Russian Federation"
- Agreement on Cooperation for the Research on Key Technologies of Production of Ethanol from Stem Juice of Sweet Sorghum
- Agreement with the Association for Advanced Technology (ASPECT) of Russia Federation Association for Business Cooperation.

Since May 2006 EUBIA is Member of the Steering Committee of the G-8 Global Bioenergy Partnership. GBEP's function is to provide a high level national and international dialogue on policy frameworks for investment and transfer of technology in the field of biomass. The "Terms of Reference for the Global Bioenergy Partnership" were signed, by Canada, France, Germany, Italy, Japan, Mexico, China, Russian Federation, United Kingdom, USA, FAO, IEA, UN Foundation and EUBIA.

EUBIA's Secretary General, Giuliano Grassi, has been awarded 2 prizes in 2006 :

- EuroSolar : in the category "special prize for extraordinary individual commitment", for his engagement for the use of Biomass. The prize was delivered by the president of EuroSolar, Hermann Scheer on the 7th of December 2006 in Berlin.
- EuroSolar Italia : in the category "special prize to personality who demonstrated an extraordinary professional commitment in the renewable energy sector", for his continuous pioneering action in research for the use of the biomass as a renewable energy source at large scale. The prize was delivered by Arch. Francesca Sartogo president of EuroSolar Italia, the 14th December 2006 in Rome.

## **5. EUBIA Activities of interest**

EUBIA is promoting some promising commercial activities :

- **New Generation of Agro-pellets Manufacturing system** : for stabilisation of humid biomass or mixtures and optimisation of large scale supply and trading of agro-pellets for all energy markets sectors;
- **Multi fuel small-Power Co-generation** : (50-1000 kWe) optimised for the use of agro-pellets and micro units based on a modern steam engines technology. CHP is economically more attractive but electricity alone is to be considered vital for rural areas;
- **Small Bioenergy Complexes** : for the co-production of bioethanol, electricity and animal feed from sweet sorghum plantation (1000-50000 ha). Several projects are now in the final stage of approval in many countries (3 continents);
- **Co-firing of coal/agro-pellets** : in particular the modernisation of one sugar-cane using modern Fluidised bed boilers (fuelled by agro-pellets from sugar cane residues (bagasse & trashes : ~ 300.000 t/year). The surplus of these Agro-pellets will be supplied to a coal power station for co-firing. EUBIA will provide, with its members support, optimisation of logistics, transport, storage, handling, feeding in the other important area;
- **Commercial Bio-H<sub>2</sub>** : (industrial grade 98,5%) production from Agro pellets : from several trials carried out during the past 4 years ~ 55kg of Bio-H<sub>2</sub> can be produced from 1 tonne of low quality agro-pellets. All the process technologies required are already commercially available and preliminary economic evaluation anticipates a production cost of ≤ 2000 Euros per tonne H<sub>2</sub> (without carbon credits), thus nearly competitive with the most popular process for H<sub>2</sub> production by steam reforming of natural gas;
- **CDM projects** : Carbon Credits (through CDM and JIP) are becoming increasingly important economically for industrial and developing countries. EUBIA at present are proposing one large scale CDM project between Europe and third countries (Brazil, ...) involving utilisation of sugar cane residues (trashes and bagasse for co-firing, etc.). Similar projects with Russia, India and China are under discussion.

## **6. Current Projects**

EUBIA has a wide experience in innovative bioenergy projects. Relying on a highly-qualified, committed staff EUBIA has gained an extensive experience in the bio-energy field through the coordination and participation to a number of international projects and promotion activities.

### **Selection of the International Projects in which EUBIA is a partner :**

**BIOPROS** : Collective research project aiming to improve the biomass production of Short-Rotation-Plantation through the safe application of wastewater and sludge. EUBIA is the general coordinator of BIOPROS from the administrative, legal and financial side and in charge to ensure the correct organization and cooperation between the partners and with the European Commission. The scientific management of BIOPROS is under the supervision of TTZ.

**COMPETE** Competence Platform on Energy Crop and Agro forestry Systems for Arid and Semi-arid Ecosystems – Africa, 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 semiarid regions in Africa;
- to enhance the equitable exchange of knowledge between EU and developing countries.

**PELLETS@LAS** : Development and promotion of a transparent European Pellets Market - Creation of a European real-time Pellets Atlas.

### **Commercial Production of Bio-H<sub>2</sub> from Agro-forestry Residues**

Competitive Hydrogen from agro-forestry residues : New four step process, dealing with the tar problem.

**AGROBIOGAS** : the objective is to harness the potential of agricultural waste for the production of biogas and fertilisers (Anaerobic Digestion) by accumulating financial, legal and technical requirements across Europe.

**NETBIOCOF** : The aim of the objective is to establish a European expert and coordination platform on Co-Firing (the combustion of biomass with coal) to achieve higher combustion and economic efficiencies.

**EMINENT** : Encourages early market introduction of new energy technologies in liaison with energy research groups and industry.

**T@W (Technology at Work)** : To facilitate the entry of European manufacturers of SET (Sustainable Energy Technology), current know-how and European research results into the emerging markets in Europe and Asia.

**RESTMAC** : Devoted to the promotion and valorisation of RES technologies specifically researching established technologies with the highest economic potential, through brochures and workshops.

## **7. Membership**

The European biomass sector is in vast and rapid expansion. In a context of liberalisation and growing competition, the industrial sector needs to be represented at the highest levels by one powerful key institution. EUBIA wants to serve that role, recognising the importance to highlighting cross-sectorial interests characterising the industry. EUBIA gathers organisations and companies from throughout the European Union. These companies range from long-known names in the worldwide energy sector to SMEs that are heavily involved in penetrating the energy market. Research centres are also well represented. EUBIA is ready to accept new members. Membership of EUBIA is open to all companies and organisations that have an interest in the area of biomass and bioenergy.

By joining EUBIA your organisation will benefit from relevant biomass-focused information as well as from dissemination, networking and business opportunities. Your interests will be promoted at the European and international levels and you will enhance your chances to obtain international financing for co-operation projects. Join EUBIA today, and help us to promote the biomass industry worldwide!

- **AVS SLOVAKIA s.r.o (Slovakia)**  
Technology providers
- **BAFF (Sweden)**  
BioAlcohol Fuel Foundation
- **CARMEN (Germany)**  
Coordinating Office for Renewable Raw Materials
- **CARTIF (Spain)**  
Automation, Robotics and Information and Manufacturing Centre
- **CMI (Belgium)**  
Equipment and subassemblies for energy, steel industry, and defence markets
- **E.On Sverige AB (Sweden)**  
International energy group
- **EDORA (Belgium)**  
Federation promoting green electricity production in Wallonia and Brussels
- **EGE BIOTEKNOLOJI Inc. (Turkey)**  
Specialists in recycling and re-using wastes such as sludge
- **Energidalen (Sweden)**  
R&D company & platform for bioenergy
- **ENI (Italy)**  
International Oil and Energy Company
- **ETA (Italy)**  
Renewable Energies Consulting company
- **ICI (Italy)**  
Research Institute for Industrial Crops
- **ISET (Germany)**  
Institut für Solare Energieversorgungstechnik e.V.
- **Leonardo Venablers (Spain)**  
Market and Financial Consultancy in Renewable Energy and Clean Technologies
- **Martezo (France)**  
French manufacturer of gas generators and kilns to carbonize
- **MONT-ELE (Italy)**  
Engineering, Construction and Renewable Energy Company
- **SIEMENS AG (Germany)**  
World class solutions in electrical engineering and electronics
- **University of Pisa (Italy)**  
Department of Energetics
- **University of Sassari (Italy)**  
Department of Chemistry
- **WIP (Germany)**  
Renewable Energies Consulting Company

Membership of EUBIA runs in a 12 month period from the date of joining. There is an entrance fee of € 1000 and an annual fee of € 2000. To become a member, please complete the application form and return it to us. EUBIA will send you the necessary information for becoming a member, our articles of association and a letter of conformity to be signed. After signing the letter confirming your decision to become a member of EUBIA and your adherence to the articles of association, your membership will be ratified by a resolution at the next General Assembly of EUBIA.

## 8. Selection of EUBIA Presentations in Conferences, 2006-2007

Authors	Title	Events	Organiser	Place	Country	Date	Role
Giuliano Grassi & Tord Fjalstrom		Global Bioenergy Partnership 1 <sup>st</sup>		New York, UN Building	US	12 May 06	Steering Committee
Giuliano Grassi	Recent Technology Innovation for Commercial Competitive Biofuels Production	Biomass to Liquid Conference	Regional Conference Director CMT Kuala Lumpur	Munich	Germany	16-17 Oct 06	Invited
Stephane Senechal	Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short Rotation Plantations BIOPROS Project	Sludgery Workshop		Izmir	TURKEY	24-25 Nov 06	
Giuliano Grassi	Recent Technology Innovation for Competitive Biofuels production	International Conference of Biofuels - ENERBIO 2006		Brasilia	Brazil	27-29 Nov 06	
Giuliano Grassi	Co-production of Bioethanol and Power"and panelist "Land for Food and Energy".	Bioenergy Europe 2007 - markets and finance for biofuels and biomass	Environmental Finance Conferences	London	UK	5-6 Feb.2007	Invited speaker and panelist
Giuliano Grassi	Biomass process technologies business technologies & International biofuels trading	BIOFUEL: A NEW MARKET NICHE	Vostockcapital	London	UK	14-15 Feb 2007	Invited speaker
Giuliano Grassi	World Bioethanol Perspectives	Comitato Nazionale Italiano del Consiglio Mondiale dell'Energia	Environment Ministry	Rome	Italy	22 Feb 2007	Invited speaker and panelist
Giuliano Grassi		Technical Working Group in preparation of the 3rd Steering Committee	Global Bioenergy Partnership	NY	USA	27-28 Feb 2007	
Tord Fjalstrom	BTL Commercialisation and Development	World Biofuels Markets,	Green Power Conferces	Brussels	Belgium	7-8 March 2007	Invited speaker and panelist
Giuliano Grassi	Biofuels Session	European Fuels Conference 8 <sup>th</sup> annual meeting	World Refining Association/ The Energy Exchange Ltd	Paris	France	15 March 2007	Chairman
Giuliano Grassi	Overview on modern use of biomass for clean energy and chemicals	4 <sup>th</sup> International Chemical Summit	Russian Chemist Union	Moscow	Russia	12-13 April	Invited speaker and panelist
Giuliano Grassi	Visit of a delegation on food, agriculture and Biotechnology led by the European Commission to India		European Commission	New Delhi, Bangalore, Hyderabad	INDIA	23-27 April 2007	Expert invited

## 9. Upcoming Events in 2007

EUBIA is currently supporting and participating to the following events :

### Fair and Congress of Alternative, Renewable, Clean and Co-generated Energy

November 27th to 29th, in São Paulo – Brazil

[www.itmexpo.com.br/](http://www.itmexpo.com.br/)

### BioEnergy Asia 2007

October 23th to 25th, in Beijing Exhibition Center, China

[www.bioenergy-asia.com](http://www.bioenergy-asia.com)

## **EUBIA Events during the 15th European Biomass Conference & Exhibition**

### **Tuesday 8th May :**

11.30-13.00 : Hall 3

“international cooperation forum – supporting the present effort & commitment to promote the sustainable deployment of modern bioenergy”.

### **Wednesday 9<sup>th</sup> May :**

15:00-18.00 : Salon 13/14 (Salon Langenbeck; II floor)

RESTMAC: Creating Markets for Renewable Energy Technologies

15:00-16:30 Cogeneration at Small-scale

16:30-18:00 Biomethanol Production and Use

### **Thursday 10<sup>th</sup> May :**

13.15-14.40 : Poster Area ; Visual Presentation (VP4.I)

V4.I.8 : “Commercial Production of Bio-H<sub>2</sub> from Agro-forestry Residues”

V4.I.9 : “New Efficient Technology For Stabilisation of Humid Biomass in view of Large-scale Supply”

V4.I.10 : “Integration of Coal-biomass Cofiring with sugar-cane Mill in Santo Domingo”

V4.I.11 : “Innovative Low-Energy Distillation Technology for Bio-ethanol”

15.00-16.25 : Oral presentation (OD9)

“International Cooperation for Biomass production and Utilization for Energy Production”. M. Grassi chairs the session.

16.45-18.10 : Oral presentation (OD12)

“Biomass for Sustainable Development”. M. Grassi chairs the session and makes a presentation of the “Techno-Economic Feasibility of Bioenergy Complex in Developing Countries”.

### **Friday 11th May :**

12.20-14.40 : Closing Session

EUBIA Award Ceremony

### **Stand :**

You can also join us on our stand to discuss projects, share ideas and feeling and perhaps to create new contacts for future collaboration. So don't hesitate you will find us at **stand N°7**.