

## Institutional Support



## Hamburg 2009, the main reference for the world's leading Biomass experts

Conference jointly realised by:



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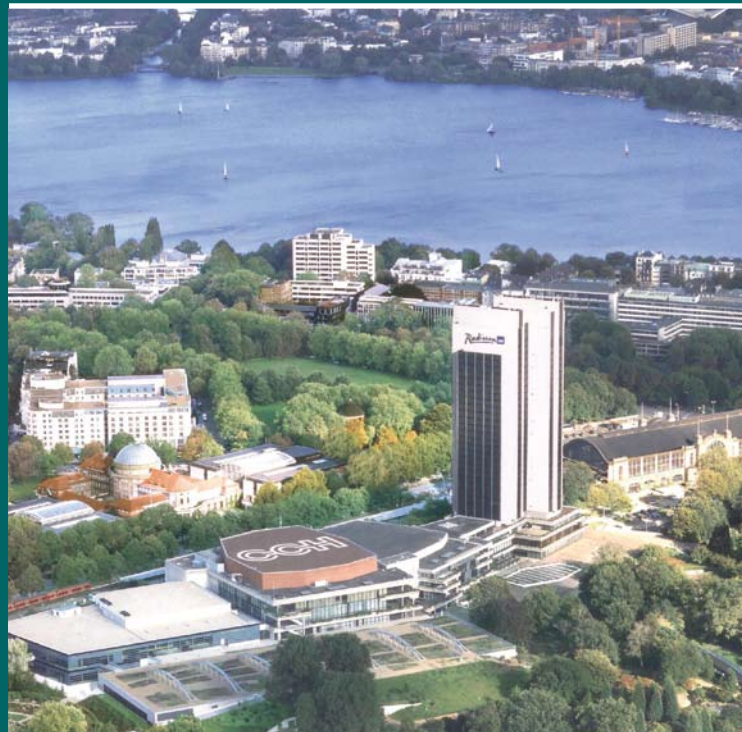
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# 17th European Biomass Conference & Exhibition

## From Research to Industry and Markets

**CCH - Congress Center  
Hamburg, Germany**

**Conference 29 June - 3 July 2009**  
**Exhibition 29 June - 2 July 2009**

### Institutional support

The European Commission

German Federal Ministry for the Environment,  
Nature Conservation and Nuclear Safety

WCRE World Council for Renewable Energies

EUBIA European Biomass Industry  
Association

and further organisations

**Coordination of the Technical Programme:**  
European Commission DG Joint Research Centre

Dear Friends, Colleagues and Members of the Global Biomass Community.

With the recent and ever increasing world-wide attention to energy, Renewable Energy and in particular bioenergy has evolved from the sidelines of the energy debate to the forefront. Biofuels for transport and biomass for heat and electricity are increasingly used for fossil fuel replacement. Biomass utilisation does not only involve a restricted group of specialists but is now present in the agenda of policy makers. New legislative actions, policy documents and strategic analyses are constantly being prepared and adopted. This is happening both in the European Union and in other parts of the world, with actions having national, regional, local and often global implications.

June 2009 will be a good time to review the developments at all levels, including policy, markets, industry, technology, research and education. We expect the results of this 17th European Biomass Conference & Exhibition to help us to support technically the definition of the European Union's specific targets for Renewable Energy for 2020 and the implementation of the corresponding actions. I am convinced the Conference Programme will provide new data and information on biomass resources, biomass conversion, markets development and bioenergy policies. I expect this meeting to be also an opportunity to discuss the status and challenges of National and Regional Biomass Action Plans, biofuels as well as the role of bioenergy in initiatives such as the European Strategic Energy Technologies Plan - SET Plan.

As Chairman of the 17th European Biomass Conference & Exhibition, I believe that this meeting will help us to understand better the key issues associated with the sustainable production and use of biomass and in particular its implications on the tropical world. As in previous occasions this Conference will provide an opportunity to have a policy debate and to review industrial progress and market trends.

In addition to the Conference there will be an attractive Technical Exhibition and I will contact you again to let you know how the event is progressing.

I look forward to seeing you in Hamburg, an exciting city where the promotion of biomass resources, their applications and the market deployment of derived products is pushed forward at German governmental and institutional levels along with other types of Renewables. I am convinced that on our departure from Hamburg we will all feel significantly enriched by listening to your contributions and will find new stimuli to address the energy and climate change challenges we are facing today and in the future.

Giovanni Federigo De Santi  
Director  
Institute for Energy (IE)  
JRC - European Commission

**Call for Papers Deadline: 8 December 2008**



**Conference Chairman:**  
Giovanni Federigo De Santi  
Director  
Institute for Energy (IE)  
JRC - European Commission



**Coordination of the Technical Programme:**  
Jean-François Dallemand  
Heinz Ossenbrink  
Joint Research Centre  
European Commission  
Institute for Energy



**Conference jointly realised by:**  
ETA-Florence Renewable Energies, Florence, Italy  
WIP-Renewable Energies, Munich, Germany

## PROGRAMME

The five-day programme for the Conference includes:

- ◆ **Plenary lectures** describing the state-of-the-art in biomass technologies
- ◆ **Oral and visual presentations** on research, development, demonstration and commercial projects
- ◆ **Exhibition** of biomass products, utilisation and conversion technologies (29 June - 2 July)
- ◆ **Workshops**
- ◆ **Scientific tours** and social programme

## TOPICS

### 1. BIOMASS RESOURCES

1.1 Availability and cost of resources (global, national & regional), technical, logistical, water and environmental limitations, effect on food and competitive use, environmental impact, etc.

1.2 Production, pretreatment, supply and logistics of feedstocks from crops, forestry, animal residues, processing industry and the biodegradable fraction of Municipal Solid Waste (MSW) streams, etc.

1.3 Research on energy crops: new cultivars and techniques, novel crops, algae; cultivation, pretreatment, supply and logistics.



### 2. BIOMASS CONVERSION TO HEAT, ELECTRICITY, PRODUCTS

2.1 Thermochemical conversion - gasification for power, CHP and poly-generation

2.2 Thermochemical conversion - gasification for clean synthesis gas production

2.3 Thermochemical conversion - pyrolysis for power, CHP, polygeneration and chemicals, etc.

2.4 Thermochemical conversion - combustion and co-combustion for large utility and industrial scale applications, etc.; NOx abatement in power plants.

2.5 Thermochemical conversion - combustion for small scale applications, steam engines, Stirling engines, Organic Rankine Cycle, household boilers & stoves, etc.

2.6 Biological conversion - fermentation, enzymatic processes, conversion processes for biogas or bio-hydrogen production.

2.7 Biorefineries, green chemistry: conversion processes to obtain industrial materials and chemicals (bio-polymers, pulp & paper, bio-fertilisers, etc.).

## 3. FUELS FROM BIOMASS

3.1 Production, supply and use of solid biofuels (chips, pellets, briquettes et al.) for particular market users (households, industry, etc.).

3.2 Production, supply and use of liquid biofuels from carbohydrate crops and oilseeds.

3.3 Production, supply and use of liquid biofuels from lignocellulosic sources.

3.4 Production, supply and use of gaseous biofuels: biogas, bio-hydrogen.

## 4. MARKET

4.1 Demonstration and market implementation of biomass fuels for heat and CHP (process heat, households, tertiary sector, district heating, etc.).

4.2 Demonstration and market implementation of biomass fuels in the electricity sector (utility scale, distributed generation, dedicated bio-power plants, etc.).

4.3 Demonstration and market implementation of biofuels in the transportation sector, distribution & logistics

4.4 Demonstration and market implementation of biorefineries: green chemistry conversion processes to obtain industrial chemicals and materials (biopolymers, food additives, pulp and papers), etc.

4.5 Economics and benefits deriving from biomass integration, process technologies and simultaneous production; identification of the most promising biomass/bioenergy complexes; bio-products complexes, etc.

4.6 Market forecasts; costs of biomass resources; unit cost of energy production; forecasts and technology learning curves, etc.

## 5. POLICIES AND SUSTAINABILITY

5.1 Security of supply; globalisation of biomass, international biofuels trade; strategy and climate protection issues; externalities assessment, etc.

5.2 Sustainability criteria and certification issues; agricultural and environmental management systems for biomass production; international standards; monitoring, etc.

5.3 Agro-environmental assessment of biomass production in temperate and tropical regions.

5.4 Assessment of marginal effects of biofuels/bioenergy: commodity markets, indirect land use change, agricultural intensification and associated emissions.

5.5 Financing of bioenergy projects (small & large), Clean Development Mechanisms (CDM) and Joint Implementation (JI) programmes; venture capital, socio-economic impact, etc.

5.6 International cooperation for accelerating the large scale worldwide deployment of biomass utilisation, bioenergy and biomass based products, etc.

5.7 International, national, regional and local policies, biomass action plans.

## HOW TO PREPARE AN ABSTRACT

Papers will be presented in plenary, oral and visual (poster) sessions. All presented papers will be published in the Proceedings. Authors wishing to submit a contribution are kindly asked to read the following instructions carefully and prepare an abstract by the deadline of the 8 December 2008 preferably using the on-line submission system [www.conference-biomass.com/conference\\_abstract\\_submission.asp](http://www.conference-biomass.com/conference_abstract_submission.asp)

The abstract, single spaced in English, should include:

- ◆ Applicable subject number (1 to 5 above) and sub-section (e.g. 1.2)
- ◆ Full title
- ◆ Full name, affiliation and address of one author for all correspondence
- ◆ Full name of each author and co-author, affiliation and address, phone/fax/e-mail
- ◆ Purpose of the work
- ◆ Approach
- ◆ Scientific innovation and relevance
- ◆ Results
- ◆ Conclusions

The abstract should not exceed one page (size A4, 210 x 297 mm) in pdf file. In addition, authors may add up to 3 explanatory pages (as pdf file), which will facilitate the reviewers' assessment.

**DEADLINE FOR RECEIPT OF ABSTRACTS:**  
**8 DECEMBER 2008**

Only contributions complying with the above specifications will be considered. Please submit preferably your abstract directly on-line at the Conference web-site at:

[www.conference-biomass.com](http://www.conference-biomass.com)

or send an email to [papers@etaflorence.it](mailto:papers@etaflorence.it).

For questions concerning the abstract submission, please contact:  
**Ms. Anna Andretta**  
**E-mail: [papers@etaflorence.it](mailto:papers@etaflorence.it)**

All authors will be notified of the decisions of the selection committee by February 2009. At the same time, authors of accepted abstracts will receive special instructions for the preparation of the final papers for the Proceedings.

