

Wednesday, 1st October 2003

9³⁰ **Registration**

10³⁰ **Welcome address and introduction**

Andreas Schütte, FNR, Gülzow/D
N.N., City of Leipzig, Leipzig/D
Martin Kaltschmitt, IE, Leipzig/D
Hermann Hofbauer, RENET Austria, Vienna/A

10⁵⁰ Biomass as an energy source for electricity generation and the provision of liquid fuels

Gerald Thalheim, Federal Ministry for Consumer Protection, Food and Agriculture (BMVEL), Berlin/D (inquired)

11¹⁰ The Austrian strategy for the development of the biomass gasification

Hermann Hofbauer, TU Vienna, Vienna/A

11³⁰ Biomass as an energy source – Occurrences, characteristics and quality aspects

Hans Hartmann, TFZ, Freising/D

12⁰⁰ Conversion of biomass into electricity and into liquid biofuels – Biomass gasification in comparison with other conversion technologies

Josef Spitzer, Joanneum Research, Graz/A

12³⁰ *Lunch*

Technical approaches & State of technology

14⁰⁰ Fixed bed gasification – State of technology

Markus Kleinhapfl, TU Graz, Graz/A

14³⁰ Fluidised bed gasification – State of technology

Steffen Krzack / Bernd Meyer, TU BA Freiberg, Freiberg/D

15⁰⁰ Gas cleaning – State of technology

Klaus Jörg / Markus Bolhar-Nordenkamp, TU Vienna, Vienna/A

15³⁰ Electricity generation from producer gas – State of technology

Jaan Hellat, Alstom (Swiss) AG, Baden/CH; Andreas Wimmer, TU Graz, Graz/A

16⁰⁰ Production of liquid fuels – State of technology

Berthold Breman, Sasol Technology Netherlands bv., Enschede/NL

16³⁰ *Coffee Break*

Fixed bed gasification for electricity generation – Projects

17⁰⁰ The project „Wiener Neustadt“

Josef Schmoll / Klaus Jörg / Wolfgang Baaske, RENET Austria, Vienna/A

17³⁰ The Haboore-Project

Bjorn Teislev, Babcock & Wilcox Volund, Esbjerg/Dk

18⁰⁰ The Viking-Gasifier

Benny Goebel, TU Denmark, Lyngby/Dk

18³⁰ Fixed bed gasification for electricity generation – Lessons learned

Alexander Vogel / Martin Kaltschmitt, IE, Leipzig/D

19⁰⁰ **Reception
with cold-hot buffet**

Thursday, 2nd October 2003

Fluidised bed gasification for electricity generation – Projects

8³⁰ The Värnamo Plant – Previous experiences and future perspectives

Krister Ståhl, KS Ducente AB, Limhamn/S

8⁵⁵ The Umsicht-Gasifier

Markus Ising, Fraunhofer UMSICHT, Oberhausen/D

9²⁰ The Arbore-Project

Erik Rensfeld / Lars Waldheim, TPS AB, Studsvik/S

9⁴⁵ *Coffee break*

Gasification for the provision of electricity and/or liquid fuels – Projects

10¹⁵ The Vermont-Project

Ralph Overend, NREL, Golden, Colorado/USA

10⁴⁰ The Güssing-Project

Christian Aichernig / Reinhard Koch / Reinhard Rauch, RENET Austria, Vienna/A

11⁰⁵ The Carbo-V Gasifier

Bodo Wolf, CHOREN Industries AG, Freiberg/D

11³⁰ The Blue Tower

Heinz-Jürgen Mühlen / Christoph Schmid, D. M. 2, Herten/D

11⁵⁵ Fluidised bed gasification for electricity generation – Lessons learned

Markus Bolhar-Nordenkamp, TU Vienna, Vienna/A
Alexander Vogel, IE, Leipzig/D

12³⁰ *Lunch*

Gasification for the provision of liquid fuels – Concepts

14⁰⁰ Basic considerations

Alexander Vogel / Martin Kaltschmitt, IE, Leipzig/D
Markus Bolhar-Nordenkamp / Hermann Hofbauer, TU Vienna, Vienna/A

14³⁰ The FZK-Concept

Edmund Henrich, FZK GmbH, Karlsruhe/D

15⁰⁰ The CUTEC-Concept

Michael Claußen, CUTEC GmbH, Clausthal-Zellerfeld/D

15³⁰ The ECN-Concept

Harold Boerrigter, ECN, Petten/NL

Challenges & Opportunities

16⁰⁰ Electricity generation via biomass gasification

Hermann Hofbauer / Markus Bolhar-Nordenkamp, TU Vienna, Vienna/A
Martin Kaltschmitt / Alexander Vogel, IE, Leipzig/D

16²⁵ Provision of liquid fuels via biomass gasification

Georg Schaub, Engler-Bunte-Institut of the University of Karlsruhe, Karlsruhe/D

16⁵⁰ Future prospects

Andreas Schütte, FNR, Gülzow/D

All presentations are simultaneously translated in German/English.

Background

The use of solid biofuels becomes more and more important due to environmental reasons. This is true – beside the still very important provision of heat – with an increasing relevance for the electricity generation (e. g. due to the requirements of the European Commission) as well as for the provision of liquid biofuels also due to demands given by the EC (European Biofuel Directive).

For these two options – the provision of electricity and of liquid fuels – the gasification of solid biofuels for the provision of a producer gas with defined characteristics is the most important key technology. For this reason the gasification technology has to be developed technically and commercially to allow biomass to achieve its political goals.

The technical developments in recent years made obvious that the gasification technology has the potential to achieve the ambitious political goals. For the provision of electrical energy in the last couple of years various experiences have been made. This allows the conclusion that this technology might become technically available and commercially affordable in the years to come. This is the prerequisite for the use of the gasification technology for the provision of liquid fuels respectively Sun- or Syn-Fuels to be produced via e. g. the Fischer-Tropsch synthesis.

Aim

On this background the aim of this conference is to present, discuss, review and assess the current state of technology for the gasification of solid biofuels for the provision of electricity as well as for the production of liquid fuels. To reach this goal first the general state of technology is presented. Secondly – as the main focus of the conference – the existing gasification projects for electricity generation are briefly outlined. Due to the broad variety of different technical solutions a distinction is made between systems based on fixed bed and fluidised bed gasifiers. Thirdly the processes and concepts for the provision of liquid biofuels are discussed. To make the different technological developments and compiled solutions easily understandable the respective project developer presents results from selected ongoing projects from Europe and from overseas. Additionally the cognisable and observable development tendencies and deficits – on the national as well as the international level – are identified, presented and analysed. At the end of the conference some conclusions about the given challenges and opportunities of a biomass gasification for the electricity generation and the provision of liquid biofuels are drawn and discussed with the audience.

Group of Participants

The conference is addressed to all persons and institutions dealing on a national as well as on an international level with all questions related to biomass gasification for the provision of electricity and liquid fuels. This is true for manufacturers, operators and planners of such plants and conversion systems. But also employees from the administration, from ministries, from associations and from research institutions as well as from utilities, project developers and investors are invited.

Place of Venue

The conference will take place at the "Neues Rathaus" (New Town Hall) of the City of Leipzig, Martin-Luther-Ring 4 – 6, D-04109 Leipzig. The "Neues Rathaus" is located in the centre of the city and can easily be reached by public transport. It is within walking distance from the main station. A location plan will be provided with the confirmation of registration or can be downloaded from the internet (www.ie-leipzig.de).

Registration & Conference Fee

The conference fee amounts for both days to 250 € (350 €) for registration before (after) 15th September 2003. The fee includes the participation at the presentations, the handouts, the proceedings (to be published after the conference and mailed to the participants), the catering as well as all beverages and the buffet at the end of the first conference day. The fee for the registration for one day only is 180 € (280 €) before (after) the 15th September 2003. The registration is transferable.

Please transfer the conference fee to

Deutsche Bank AG
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Please note necessarily the following code word on the remittance slip **"Conference Biomass Gasification"**

For any further questions please contact:

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Hotel Reservation

For the booking of your hotel room we recommend
Leipzig Tourist Service e. V., Richard-Wagner-Straße 1, Leipzig
Tel. / Fax: ++49 341 710 42 – 60 / 76; e-mail: lipsia@aol.com



International Conference

Biomass-Gasification – The silver bullet for an efficient provision of electricity and liquid fuels?

1st and 2nd October 2003
Neues Rathaus, Leipzig / Germany



Stadt Leipzig

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