



Central European Biomass
Conference CEBC2023
18th to 20th of January 2023, Graz

Programme

7th Central European Biomass Conference CEBC2023



An event by:



Exclusive partners of the conference:



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In cooperation with:



Bioenergy – Solutions for the energy and climate crisis



The Austrian Biomass Association, the Styrian Chamber of Agriculture and BEST - Bioenergy and Sustainable Technologies GmbH are hosting the **7th Central European Biomass Conference CEBC2023** in cooperation with Messe Congress Graz from 18th to 20th of January, 2023. The world is facing a radical change. Since the last conference three years ago, a pandemic broke out, Russia has started a war of aggression against Ukraine, and the consequences of climate change are being felt all over Europe.

The time to act is now!

We are in a very challenging situation, but we will have to deal with it. With bioenergy, we have created an innovative instrument for the future over the past few decades. Together with the other renewable energies wind, water, sun and corresponding energy saving measures, bioenergy contributes to getting out of the fossil energy dependency. The prerequisite for the regrowing biomass is the sustainable management of our forests, fields and meadows. With active forest management, Austria is one of the pioneers here. We take less wood from the forest than grows back. Apart from that, the most (climate) efficient use of resources must always be the basis of our actions.

Leading event of the bioenergy sector

Connecting more than 1,400 participants from all around the world, the triannually held conference belongs to the largest bioenergy industry

events worldwide. The simultaneously held "Häuslbauer-trade fair", with its emphasis on the provision of energy in the building sector, reaching out to approximately 40,000 visitors, offers an excellent addition to the conference. Special highlights are the **Winter meeting** in cooperation with Ökosoziales Forum, the **First European Pellet Forum**, numerous workshops of the **IEA bioenergy** and the presentation of the **Highlights of Bioenergy Research**.

Additional topics include the following areas:

- Sustainability at regional and national level and political framework
- climate-smart forestry and timber management
- Technologies for biorefineries
- Negative Emissions through biochar and Bio-CCS
- Bioeconomy: Heat, Power and Fuels
- Fuel characterization and quality assurance and many more.

Numerous excursions to bioenergy destinations and the presentation of the leading companies in the sector link the theoretical approach of the conference to practical applications. The traditional conference dinner, held in the **Old University of Graz** and the daily open **Bioenergy-"Heurigen"** serve as excellent networking opportunities.

We are looking forward to welcoming you at the **7th Central European Biomass Conference CEBC2023!**



ÖKR Franz Titschenbacher
President of the Austrian
Biomass Association & LK STMK



Mag. Norbert Totschnig, MSc
Federal Minister Ministry for
Agriculture, Forestry, Regions &
Water Management



Univ.-Prof. DI Dr. Hermann
Hofbauer, TU Wien, Chairman of
the Scientific Committee

■ Networking-Opportunities

All conference participants and their companions are cordially invited to participate in one of the many matchmaking-sessions of the conference:

■ **Get-together:** Wednesday, 18th of January, 2023, 18:00

At the end of the first conference day, we will invite you to a traditional Austrian get-together with **goulash & beer**.

■ **Conference Dinner:** Thursday, 19th of January, 2023, 19:30

The conference dinner takes place in the auditorium of the **Old University** (Hofgasse 14, 8010 Graz) and represents the highlight of the social programme of the conference. Please take the limited number of seats into account. Therefore, we ask you for a prompt registration.

■ **Bioenergy-„Heurigen“:** open daily 10:00 - 19:00

A „Heuriger“ is a traditional Austrian tavern selling wine, beer and cold snacks, and thus, a treasure of Austrian culture. We would like to invite you to our continuously open **Bioenergy-„Heurigen“**. A little snack inbetween guarantees a boost of energy for the widespread conference programme and moreover, serves as an excellent meeting place for networking opportunities.



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■ „Häuslbauer“- trade fair from 19th to 22nd of January, 2023



The „Häuslbauer“-trade fair (19th-22nd of January, 2023 in Graz, Styria) is the leading trade fair in the field of house construction and energy. One core theme of the event is the presentation of bioenergy technologies.

Biomass producers, suppliers and distributors, manufacturers of biomass combustion technologies (e.g. wood-pellet, wood-chip and log-wood boilers, wood-pellet and log-wood stoves), and manufacturers of biomass CHP technologies will be represented as exhibitors in large numbers at the trade fair. Moreover, R&D organizations as well as technical and financial consultancy firms enrich the trade fair's programme. The trade fair is designed for house owners with intentions of installing a new heating system as well as key decision-makers from politics, economy and industry.

INFO: The ticket of the 7th **Central European Biomass Conference CEBC2023** enables you to visit all areas of the „Häuslbauer“-trade fair for free!



Review of 2020



Leading event of the bioenergy sector

270 Scientific Presentations

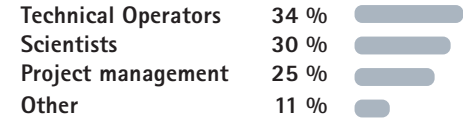
1.400 Participants

40.000 Visitors at the simultaneously held „Häuslbauer“-trade fair

6 Excursions

18 Workshops

Visitor's profile



Participants from over 56 countries

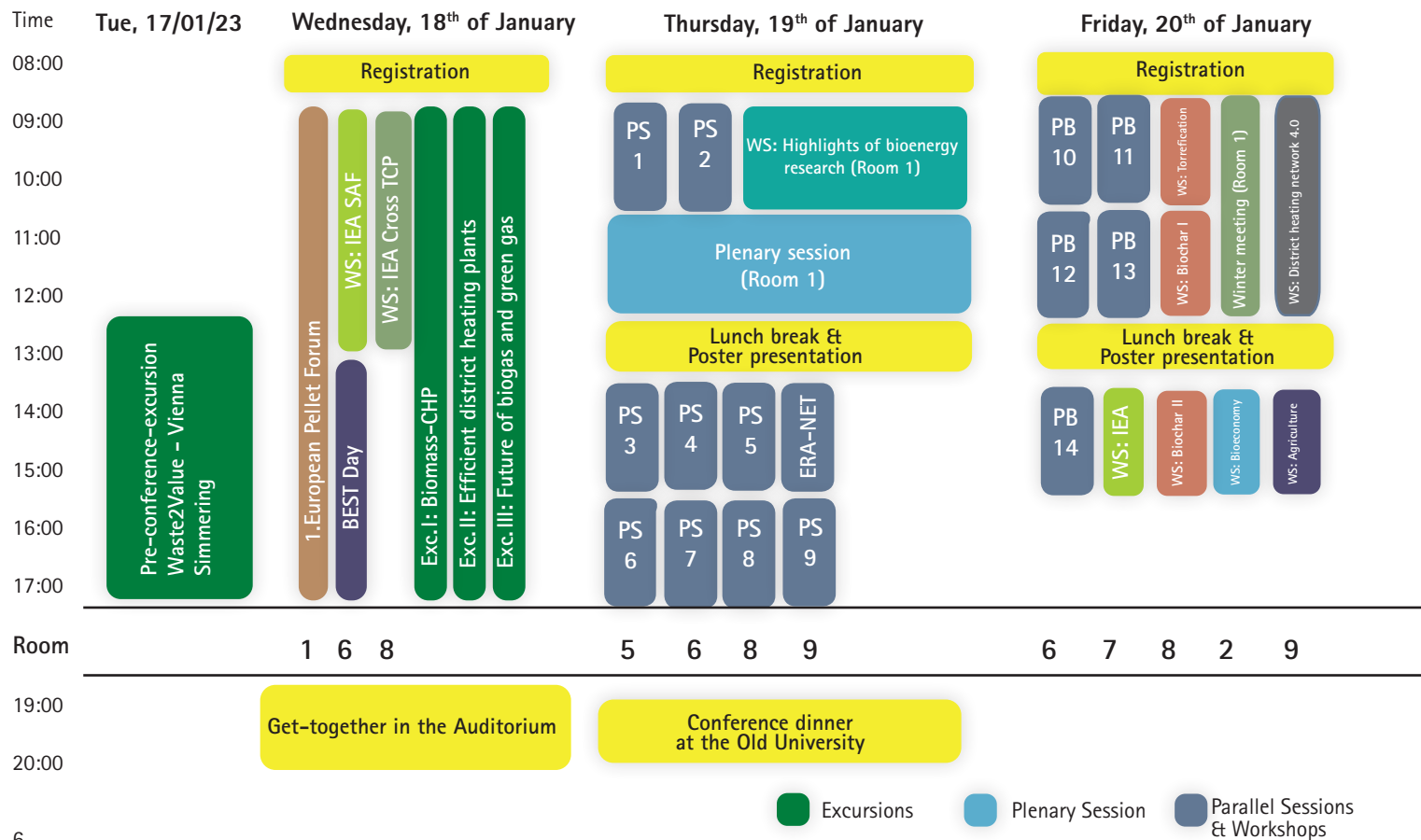


Participants-Feedback 2020

96 % highly recommend the conference

87 % very satisfied participants

Programme of the 7th Central European Biomass Conference CEBC2023



Programme Overview



Tuesday, 17th of January, 2023

13:00–17:30 Pre-conference-excursion – Waste2Value – Wien Simmering, p. 14

Wednesday, 18th of January, 2023

from 08:00 on: Registration

08:30–18:30 Excursions I–III, p. 14 & 15

09:00–17:00 1st European Pellet Forum, Room 1, p. 17

09:00–12:30 IEA AMF TCP Task 63. SAF Sustainable Aviation Fuels, Room 6, p. 19

09:00–12:30 WS: IEA Cross TCP: Flexible cross-sectoral energy supply, Room 8, p. 21

12:30–13:30 Lunch break

13:30–17:00 BEST Day: Sustainable biorefineries and Digitalization, Room 6, p. 23

from 18:00 on: Get-together

Thursday, 19th of January, 2023

from 08:00 on: Registration

09:00–12:30 Highlights of Bioenergy Research, Room 1, p. 27

09:00 – 10:30 PS 1: Sustainability of biomass to energy solutions, Room 5, p. 26

09:00 – 10:30 PS 2: Biochemical Biorefineries, Room 6, p. 26

10:30–11:00 Coffee break & Poster Presentation

11:00 – 12:30 Plenary Session – Scientific & Political Opening, Room 1, p. 31

12:30–13:30 Lunch break & Poster Presentation

13:30 – 15:00 PS 3: Bioenergy – an essential part of the transition of our energy system. Potentials and needs, Room 5, p. 32

13:30 – 15:00 PS 4: BtL Biorefining Processes, Room 6, p. 32

13:30 – 15:00 PS 5: Bioenergy in Practice, Room 8, p. 33

13:30 – 16:00 ERA-NET-Session Room 9, p. 35

15:00–15:30 Coffee break & Poster Presentation

15:30–17:00 PS 6: Clean and efficient combustion and fixed bed gasification, Room 5, p. 36

15:30–17:00 PS 7: Politics and Markets, Room 6, p. 36

15:30–17:00 PS 8: Green gas biorefining processes, Room 8, p. 37

15:30–17:00 PS 9: Biomass-based negative emission technologies, Room 9, p. 37

19:30 Conference Dinner

Friday, 20th of January, 2023

from 08:00 on: Registration

09:00 – 13:00 Winter meeting of the Ökosoziales Forum, Room 1, S. 41

09:00 – 10:30 WS Torrefication, Room 8, S. 43

09:00–12:30 WS: District heating network 4.0, Room 9, p. 47

09:00–10:30 PS 10: COST ACTION – Special session of WIRE – CA20127 – Waste biorefinery technologies for accelerating sustainable energy processes, Room 6, p. 42

09:00 – 10:30 PS 11: Digital methods and tools, Room 7, p. 42

10:30–11:00 Coffee break & Poster Presentation

11:00–15:00 WS: Biochar, Room 8, p. 45

11:00 – 12:30 PS 12: Biomass fuel and ash characterization, Room 6, p. 46

11:00 – 12:30 PS 13: Flexible bioenergy and biomass-based hybrid energy systems, Room 7, p. 46

12:30–13:30 Lunch & Poster Presentation

13:30–15:00 WS: Digital technologies in forestry and agriculture, Room 9, S. 49


13:30–15:00 WS Biochar Part II: Production, upgrading and use of green carbon and biomass ashes, Room 8, S. 50


13:30–15:00 WS: Bioeconomy: Potentials and limits of „green“ growth in the Austrian forest-based bioeconomy, Room 2, S. 50



13:30–15:00 WS: IEA TCP Special: Digitalization in district heating supply, Room 7, S. 51

16:00 Conference Closing

Language marked in the detailed programme:

Language English 

Language German 

Simultaneous translation  

What awaits you at the 7th Central European Biomass Conference CEBC2023



„The CEBC is one of the most important conferences in the bio-energy industry worldwide. In addition to established processes, such as thermo-chemical recycling, plenty of new technologies have been developed in recent years and are about to be launched - the CEBC offers a comprehensive overview on all of them.“

Univ.-Prof. DI Dr. Hermann Hofbauer, TU Wien, AUT



„The time window that we still have left to effectively counteract climate change is closing rapidly. Bioenergy can help us reduce greenhouse gas emissions while, simultaneously, generating income.“

**DI Dina Bacovsky,
BEST, AUT**



„The current situation clearly demonstrates the urgent need of a phasing out of fossil fuels. The CEBC gives an up-to-date insight into the diverse technical solutions that are available along the entire bioenergy value chain and offers the opportunity for discussions with top experts from all over the world.“

DI Dr. Christian Rakos, proPellets & WBA, AUT



„Sustainable forest management is an essential contribution to climate protection and the energy transition. With the adaptation of the forests, biogenic carbon stores are protected, environmental services and regional added value are preserved and, at the same time, renewable raw materials are made available. The CEBC puts a spotlight on these developments.“

Prof. Dr. Hubert Röder, HSWT/TUM Campus Straubing, GER



„Flexible bioenergy is the key to a climate-neutral energy supply. The CEBC 2023 offers an interesting forum for the diverse concepts of flexible bioenergy use in the different energy sectors.“

**Prof. Dr. Ing. Daniela Thrän,
DBFZ, GER**



„The combination of bioenergy use with CO2 capture or biochar production can achieve negative CO2 emissions, which are necessary in order to achieve the climate targets. At the CEBC, the latest work on such key technologies will be discussed and in exchange, innovations will be developed.“

Univ.-Prof. DI Dr. Tobias Pröll, BOKU, AUT



„Nowadays it is fundamental to consider the valorization of biomass as a priority. The CEBC represents a unique hub, where industries and research institutes build solutions and can discuss fundamental principles.“

**Ass. Prof. Stefano Grigolato,
University of Padua, ITA**



„Biomass is an essential part of the energy transition to 100% renewable energies. The CEBC2023 is an excellent opportunity to exchange views with representatives of science and industry.“

**Hofrat DI Dr. Josef Rathbauer,
HBLFA Francisco Josephinum, BLT Wieselburg, AUT**

Scientific Committee

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A collage of three images: on the left, a stack of cut logs; in the center, a pile of wood chips with some falling; on the right, a large array of solar panels on a building.

New Directions for Climate Protection and Energy Efficiency – Zero Emission Austria

Messe Congress Graz: Floor Map



The rooms for the 7th Central European Biomass Conference CEBC2023 are located on the 1st floor of the Messe Congress Graz. You can reach the registration and the conference rooms with an escalator.



Tuesday
17.
January

Pre-conference-excursion

Waste2Value – Wien Simmering with transfer to Graz

13:00 Meeting point: **11. Haidequerstraße 6, 1110 Vienna**

■ For a limited number of attendees (typically for those travelling via Vienna) BEST – Bioenergy and Sustainable Technologies GmbH offers a tour of its **Syngas Platform Vienna**. The core element of the platform is a 1 MW second generation Dual Fluidized Bed Steam Gasifier. This plant is specifically designed to also handle challenging feedstock, such as low quality biomass, sewage sludge or sorted fractions of MSW.

The tour will also include a visit of BEST's downstream synthesis plants (eg. the barrel per day Fischer-Tropsch plant), which are directly connected to the gasifier.

The tour will start on the **17th of January, 2023 at 13:00 at 11. Haidequerstraße 6, 1110 Wien-Simmering** (entrance to the industrial waste incineration plant of Wien Energie). The site is about 15 minutes from Vienna Airport and 30 minutes from the city centre. Attendees will be transferred to Graz (Messe) after the tour.

17:30 **Arrival Graz**

Cost EUR 100,-

Registration: <https://best-research.eu/content/preconferenceexcursion>

Further enquiries: office-wien@best-research.eu

Excursions

Wednesday
18.
January

Excursion I Biomass-CHP

09:00 Departure Messe Congress Graz

10:30 – 12:00 **FKF Forst- und Gutsverwaltung**

- 200 kWel Syncraft®-Wood gas CHP-plant - Heat for shrimp farming
- Biochar as barbecue charcoal

12:00 **Departure**

12:15 – 13:15 **Lunch**

13:30 – 15:00 **Cycle Energy**

- Steam-CHP 4,3 MWel 12 MWth
- Pelleting
- Generation of process steam for industry

15:00 – 16:30 **Münzer Bioindustry GmbH**

- Biodiesel from steam heat from Cycle Energy

18:00 Arrival Messe Congress Graz



Excursions

Wednesday
18.
January

Excursion II Efficient district heating plants

09:00 Departure Messe Congress Graz

10:00 – 12:00 **Nahwärme Strass**

- 3 MW Biomass boiler plus absorption heat pump from Steps Ahead

12:00 **Departure**

12:45 – 13:45 **Lunch**

14:00 – 16:00 **Stadtwerke Gleisdorf – Nahwärme**

- 800 kW with heat pump from waste water at sewage treatment plant
- utilization of digester gas

16:15 – 17:45 **Nahwärme St. Ruprecht a.d. Raab**

- 1.800 kW Biomass boiler
- 1.590 m² thermic solar plant and 138.000 Liter buffer tank

18:30 Arrival Messe Congress Graz



Excursion III Future of Biogas and Green Gas

10:00 Departure Messe Congress Graz

10:30 – 11:30 **Energie Graz**

- Solar storage project Helios Graz

12:15 – 13:30 **Lunch**

14:00 – 15:15 **Biogas Uidl**

- Future-proof biogas plants – where are we heading?

15:30 – 17:30 **Renewable Gas Field**

- Production of green hydrogen and green gas from biogas and excess PV power

18:00 Arrival Messe Congress Graz

Organisation: The meeting point for Excursion I and II is at 08:30, for Excursion III at 09:30 at the conference registration. Departure starts after a successful registration (meeting point 1st floor, Messe Congress Graz).

Language: German-speaking guides with English-speaking support



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biomass district heating • electricity generation from wood and biogas • photovoltaics • solar thermal power • waste heat recovery • energy storage • building technology



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1st European Pellet Forum, Room 1, 09:00 – 17:00

Use of Pellets in the Heating Market – Current Developments & Prospects



Wednesday
18.
January



„The European pellet markets are currently characterized by rapid growth and enormous volatility. The European Pellet Forum offers an ideal opportunity to get an idea of the current developments in these turbulent times and to exchange ideas with industry representatives from all over Europe.“

Chair: Christian Rakos,
CEO proPellets Austria, AUT

09:00 – 10:00 – International Market Development

Big picture – Recent developments in international pellet markets

Gilles Gauthier, *Hawkins Wright Ltd., GBR*

Pellet market situation in Southeastern Europe

Branko Glavonjic, *University of Belgrade, SRB*

Coping with tight pellet markets – the Austrian experience

Christian Rakos, *proPellets Austria, AUT*

10:00 – 11:00 Panel debate with European Pellet Associations: Current developments and future perspectives

Pablo Rodero, *Avebiom, SPA*

Eric Vial, *Propellet France, FRA*

Martin Bentele, *Deutscher Energieholz- und Pellet-Verband e.V., GER*

Matteo Favero, *AIEL, ITA*

Adam Sarnaszek, *Biocontrol, POL*

11:00 – 11:30 – Coffee Break

11:30 – 12:15 – Policy situation and communication

Status of RED III negotiations and other important policy files in

Brussels, Irene di Padua, *Bioenergy Europe, BEL*

Managing communication challenges of the pellet sector, Yana Kravtsova, *Enviva, USA*

12:15 – 12:45 **Speed dating of participants to facilitate networking**

12:45 – 14:00 **Lunch break**

14:00 – 15:30 **Market Situation from Industry**

Market development of pellet mills, Lars Bloch, *Andritz, DNK*

Pellet boiler market outlook, Stefan Ortner, *ÖkoFEN, AUT*

Pellet stove outlook, Marco Palazzetti, *Palazzetti, ITA*

Perspectives of a pellet producer, Helmut Schellinger, *Schellinger KG, GER*

The pellet trading landscape, Michael Christensen, *CM Biomass, DNK*

Converting the energy supply of industries to pellets,

Staffan Lundegårdh, *BK Tech, SWE*

15:30 – 16:00 **Coffee Break**

16:00 – 17:00 Underpinning the case for wood pellets – Voices of Science

Biomass and climate mitigation


Michael Obersteiner, *University of Oxford, AUT*

Ecobalance / CO₂ balance of different Forest use scenarios

Hubert Röder, *Fachhochschule Weihenstephan-Triesdorf, GER*

17:00 **NETWORKING & FLYING DINNER**

Detailed information can be found at: www.pellet-forum.eu

Simultaneous translation 



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SCAN ME

WS: IEA AMF TCP Task 63: Sustainable Aviation Fuels

Language English 

National strategies and challenges for the market uptake of Sustainable Aviation Fuels,

Room 6, 09:00 – 12:30

Wednesday
18.
January



„Internationally coordinated policies are essential in bringing Sustainable Aviation Fuels to market.“

Chair: Dina Bacovsky, BEST, AUT



„SAF hold great potential for reducing emissions from aviation.“

Co-Chair: Doris Matschegg, BEST, AUT

09:00 Opening

The IEA AMF TCP Task 63 is organizing an international workshop on sustainable aviation fuels. The workshop includes status quo, challenges for market introduction and national strategies to overcome those challenges.

Sustainable aviation fuels have the potential to reduce greenhouse gas emissions from the aviation sector. However, this potential remains largely untapped as such fuels currently represent only 0.05% of total jet fuel consumption. The aim of Task 63 is to lay the foundation for collaborative RD&D work on sustainable aviation fuels within AMF TCP. Thus, the Task is focusing on identifying stakeholders and experts, assessing the national situation of the participants, and facilitating information exchange on the main challenges in launching sustainable aviation fuels.
https://iea-amf.org/content/events/web_seminars/workshop_task63_cebc

09:00 Opening

Dina Bacovsky, *BEST*

National Strengths and Strategies – Europe

Doris Matschegg, *BEST*

National Strengths and Strategies – Brazil

Juliana Rangel & Paula Barbosa, *EPE*

National Strengths and Strategies – USA

Michael Wang, *ANL*

10:30 Coffee Break

Block: Market introduction of Sustainable Aviation Fuels – Best practice Examples and Challenges

Caphenia's PbtL – „Power & Biogas to Liquid“ Process – an unique technology route to syn gas

Kay Kratky, *Caphenia*

Market introduction of Sustainable Aviation Fuels (tbc.)

Barbara Achleitner, *DHL Air Austria*

Panel Discussion

Holger Friehmann, *FH Joanneum*


Anna Pachinger / Walter Reimann (tbc.), *Austrian Airlines*

Kay Kratky, *Caphenia*

Barbara Achleitner, *DHL Air Austria*

12:30 End



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WS: IEA-Cross-TCP: Towards a flexible, cross-sectoral energy supply

With a special focus on the flexibility provision via the heating sector

Room 8, 09:00 – 12:30

Wednesday
18.
January



„A sustainable energy and resource system requires intelligent, cross-sectoral interaction of different sustainable technologies. To achieve this, the flexibility of controllable technologies must be significantly improved so that they can compensate for the volatility of non-controllable technologies.“

Chair: Markus Gölles, *BEST, AUT*

A sustainable energy supply can only be achieved by a flexible, cross-sectoral energy system utilizing the specific advantages of the various renewable technologies. In this workshop possible roles of different technologies will be discussed based on a previous discussion of the users' needs among the different sectors. A special focus will be given on the flexibility provision via the heating sector. By bringing together different users, representing municipal and industrial energy supply, and technological experts from different IEA Technology Collaboration Programmes (TCP) the workshop will encourage a holistic discussion.

09:00 **Opening**

Markus Gölles, *BEST, AUT*

Block A – Future needs of users and the specific role of biomass

Wien Energie's vision of a sustainable energy and resource supply of Vienna

Teresa Schubert, *Wien Energie, AUT*

Digitalization of energy management systems- optimization of internal energy use as an industrial company

Maria Lechner, *INNIO Jenbacher, AUT*

Flexible Bioenergy and System Integration

Elina Mäki, *VTT Technical Research Centre of Finland, FIN*

Use Case: Syngas platform Vienna for utilization of biogenic residues

Matthias Kuba, *BEST, AUT*

10:30 **Coffee Break**

11:00 **Block B – Flexibility provision via the heating sector**

Transformation of District Heating and Cooling Systems towards high share of renewables

Ingo Leusbrock, *AEE INTEC & IEA DHC Annex TS5, AUT*

Opportunities offered by long-term heat storages and large-scale solar thermal systems

Viktor Unterberger, *BEST & IEA SHC Task 68, AUT*

Possibilities through digitalization on the example of District Heating and Cooling

Dietrich Schmidt, *Fraunhofer IEE & IEA DHC Annex TS4, DEU*

12:00 **Interactive discussion of audience and presenters**

12:30 **Lunch break**



Language **English**

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BEST-Day: Sustainable biorefineries and digitalization, Room 6, 13:30 – 17:00

Language English 

Wednesday
18.
January



„BEST has continuously developed from mostly technology related research towards a strong focus on full process chains and system integration. Today, digital methods and tools are our valuable companions for supporting industrial implementation of sustainable biorefineries and renewable energy technologies.“

Chair: Walter Haslinger, BEST, AUT

The BEST day provides highlights of industry relevant research activities of BEST and focusses on sustainable biorefineries and digitalization as enabler for successful technology development and technology implementation.

13:30 Session 1: Biorefineries

Learnings from biomass combustion towards future bioenergy applications

Manuel Schwabl, *Fixed Bed Conversion Systems*

Green Carbon perspectives for regional sourcing and decarbonization

Elisabeth Wopienka, *Fixed Bed Conversion Systems*

Bioconversion processes for renewable energy and/or biological carbon capture and utilisation

Bernhard Drosig, *Bioconversion Systems*

Second generation biomass gasification: The Syngas Platform Vienna – current status and outlook

Matthias Kuba, *Fluidized Bed Conversion Systems*

Utilization of syngas for the production of fuel and chemicals – recent developments and outlook
Gerald Weber, *Fluidized Bed Conversion Systems*

15:00 Coffee break

11:00 Session 2: Digital methods, tools and sustainability

Evaluation of different numerical models for the prediction of NOx emissions of small-scale biomass boilers

Michael Essl, *Modelling & Simulation*

Digitalization as the basis for the efficient and flexible operation of renewable energy technologies

Markus Gölles, *Automation & Control*

Smart Control for Coupled District Heating Networks

Valentin Kaisermayer, *Automation & Control*

Integrated energy solutions for a decentral energy future – challenges and solutions


Michael Zellinger, *Smart- & Microgrids*


Wood-Value-Tool: Techno-economic assessment of the forest-based sector in Austria

Marilene Fuhrmann, *Sustainable Supply & Value Chains*

17:00 End



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Parallel Session 1

Sustainability of biomass for energy solutions

Room 5, 09:00 – 10:30

Chair: Gerfried Jungmeier, *FH Joanneum, AUT*

09:00 **Opening**

Greenhouse gas balances of selected forest and wood utilization scenarios

Stefan Fuchs, *TUM Campus Straubing, GER*

Climate change mitigation and forest management

Ernst-Detlef Schulze, *Max-Planck-Institut, GER*

Integrated Assessment Framework for Low iLUC Risk Certification

Beike Sumfleth, *DBFZ, GER*

Environmental and social impacts of biofuel production using waste wood integrated in a large-scale steel mill


Maria Hingsamer, *Joanneum Research, AUT*

Practical experiences from the implementation of the RED II

Amparo Arellano, *SURE Sustainable Resources, GER*

10:30 **Coffee Break**



Language **English** 

Parallel Session 2

Biochemical Biorefineries

Room 6, 09:00 – 10:30

Chair: Marco Klemm, *DBFZ, GER*

09:00 **Opening**

Syngas fermentation for the production of fuels and chemicals from organic residues

Werner Fuchs, *BOKU, AUT*

Utilization of the biopolymer chitosan as coagulation agent for the treatment of digestate (FFG project BioFlock)

Wolfgang Gabauer, *BOKU, AUT*

Biowaste as resource for combined generation of materials and energy: Concept and operation of a pilot-scale biorefinery with steam explosion treatment and two-staged anaerobic digestion as core elements

Gregor Sailer, *Uni Hohenheim, GER*

Efficient methanol synthesis of reformed biogas

Carl Fritsch, *FIW RWTH Aachen, GER*

Innovative solutions for resource- and cost-efficient production of biomethane in agriculture

Elina Mäki, *VTT Technisches Forschungszentrum Finnland, FIN*

10:30 **Coffee Break**

Language **English** 



Workshop: Highlights of Bioenergy Research 2023, Room 1, 09:00 - 12:30

National and international results from the IEA Bioenergy Tasks

Thursday
19.
January



„From the beginning of the IEA Austria was involved in renewable energy research programs. Currently Austria participates in 23 technology cooperation programs (TCPs). International collaboration in the field of bioenergy research remains key in order to develop the sector and to approach climate goals.“

Henriette Spyra, Head of Directorate General III – Innovation BMK, AUT



Sabine Mitter,
Dept. Energy and Environmental Technologies, BMK

09:00 Opening

The series of events „Highlights of Bioenergy Research“ was launched by the Federal Ministry of Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK) with the aim of creating a platform for all experts and stakeholders in this area.

Within the framework of the IEA research cooperation, Austria is intensively involved in various tasks of the Technology Collaboration Program (TCP) Bioenergy. The aim is, among other things, to contribute to the decarbonization of heat and power supply, for example by substituting fossil fuels in industry and the development of integrated biorefineries.

Current developments and results from the tasks are presented in „Highlights of Bioenergy Research“. You can expect exciting lectures on bio-based value chains for a circular bioeconomy, integrated biorefineries for the decarbonization of industry, sustainable biomass CHP plants and much more. Transnational research and development projects for the sustainable use of bioenergy from the ERA-NET Bioenergy represent another important focus.

The continuously updated programme can be found at:

<https://nachhaltigwirtschaften.at/en/events/2023/20230119-highlights-bioenergy.php>

Host: Hannes Bauer, *BMK, AUT*

09:00 Opening

Sabine Mitter, *BMK, AUT*

Highlights of IEA Bioenergy

Dina Bacovsky, *BEST, AUT*

Updates from the IEA Task 40: Usage of bio-based value chains

Fabian Schipfer, *TU Wien, AUT*

Updates from the IEA Task 32: Biomass Combustion


Christoph Schmidl/Morten Tony Hansen, *BEST, AUT*


Updates from the IEA IETS Annex 11: Industrial Biorefineries

Christoph Brunner, *AEE, AUT*

11:00 Plenary session

Part 2 of Highlights of Bioenergy Research 2023 takes place on Thursday afternoon in the ERA-NET-Session.

Simultaneous translation 

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Side-Event: Award of biomass heating plants and heating networks by BMK and klimaaktiv QM Heizwerke, Room 2, 10:30 - 11:00

Thursday
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10:30 Opening

In the context of the 7th Central European Biomass Conference **CEBC2023**, Federal Minister Leonore Gewessler (BMK) and klimaaktiv QM Heizwerke award Austrian biomass heating plants and local heating projects. The showcase projects meet the highest technical as well as economic efficiency criteria and are awarded for the use of renewable energy sources, their coherent overall concepts and the special commitment of the plant operators.

klimaaktiv QM Heizwerke is an Austrian-wide quality management programme for biomass heating plants and local heating networks. Participation is mandatory for all plants in Austria with a total installed thermal capacity of 400 kW or a network length of 1000 meters or more. The aim of the management system is to increase the technical quality and efficiency of the plants through accompanying quality control during planning, construction and operation.

Since 2014, **AEE - Institute for Sustainable Technologies (AEE INTEC)** has been managing the klimaaktiv QM Heizwerke program on behalf of the BMK. In addition to the support and further training of quality officers, planners and operators, central components are the further development of the QM system, quality assurance as well as the transfer of know-how and the networking of all stakeholders.



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- /// Carbonisation of biomass / Biochar

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Plenary Session

Simultaneous translation 

Solutions for the energy and climate crisis, Room 1, 11:00 – 12:30

Host: **Andreas Jäger**, *Klimajäger & ORF-Journalist*

11:00 **Scientific & Political Opening**

Opening Statements:

- **Franz Titschenbacher**, *President ÖBMV & LK STMK*
- **Günter Liebel**, *General Secretary, Federal Ministry of Agriculture, Forestry, Regions and Water Management*
- **Hermann Hofbauer**, *TU Wien & Chair of the Scientific Committee*

Opening remarks by **Martin Graf**, *Executive Director, Energie Steiermark*

The energy and climate strategy of the Federal Government,
Leonore Gewessler, *Federal Minister for Climate Action, Environment, Mobility, Innovation and Technology*

Movie premiere: The natural carbon cycle



„Austria is a global leader in bioenergy technology and research with its research programs. The Highlights of Bioenergy Research present a comprehensive overview of the latest developments and potential contributions to achieving energy and climate goals.“

Leonore Gewessler, *Bundesministerin, BMK*

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Keynote: New ways for climate protection: negative emissions with bioenergy, **Tobias Pröll**, BOKU

Panel discussion: Bioenergy – Solutions for the energy and climate crisis

- **Leonore Gewessler**, *Federal Minister for Climate Action, Environment, Mobility, Innovation and Technology*
- **Günter Liebel**, *General Secretary, Federal Ministry of Agriculture, Forestry, Regions and Water Management*
- **Franz Titschenbacher**, *President ÖBMV & LK STMK*
- **Simone Schmiedtbauer**, *EU-Delegate*
- **Tobias Pröll**, BOKU
- **Franz Maier**, *President Umweltdachverband*
- **Bernd Vogl**, *CEO Klima- und Energiefonds*

12:30 – 13:30 **Lunch break & Poster presentation**



Parallel Session 3

Bioenergy – an essential part of the transition of our energy system – Potentials and needs
Room 5, 13:30 – 15:00

Chair: Herbert Lechner, *AEA Austrian Energy Agency, AUT*

13:30 **Opening**

The possible role of biofuels in a climate neutral transportation sector in Austria

Gerfried Jungmeier, *Joanneum Research, AUT*

The role of biofuels in the transition toward sustainable transport system

Amela Ajanovic, *TU Wien, AUT*

On the economics and potentials of biomass-based green gases in Austria

Reinhard Haas, *TU Wien, AUT*


The strategic role of bioenergy

Dina Bacovsky, *BEST, AUT*

Facilitating Biomethane production via cross-border ownership transfer of certificates

Julian Audereth, *AGCS Gas Clearing and Settlement AG, AUT*

15:00 **Coffee Break & Poster Presentation**

Language **English** 

Parallel Session 4

BtL Biorefining Processes
Saal 6, 13:30 – 15:00

Chair: Tobias Pröll, *BOKU, AUT*

13:30 **Opening**

Residual forest biomass for combined production of food and biofuel
Shaojun Xiong, *Schwedische Universität für Agrarwissenschaften, SWE*


Demonstration of the coupling of the novel aqueous phase reforming process with the Fischer–Tropsch process at lab scale
Stefan Arlt, *BEST, AUT*

TO–SYN–FUELS: Sustainable fuels made from biomass residues – demonstration on long-term operating plant
Stefan Eder, *Fraunhofer UMSICHT, GER*

Sustainable aviation and marine fuel from hydrothermal liquefaction of sugarcane bagasse and straw: techno-economic and environmental assessments
Raquel de Souza, *Universitat Campinas, BRA*

Solar-aided hydrothermal liquefaction of agricultural waste
Charikleia Poravou, *CERTH, GRC*

15:00 **Coffee Break & Poster Presentation**

Language **English** 

Thursday
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Parallel Session 5 Bioenergy in Practice Saal 8, 13:30 – 15:00

Chair: Klaus Engelmann, *LK STMK, AUT*

13:30 Opening

„QM Heizwerke“ supports the sustainable heat transition – Best practice, examples and benchmarking

Sabrina Metz, *AEE Intec, AUT*

Active flue gas condensation with absorption heat pumps – operating experience, new technological concepts and savings potential

Harald Schrammel, *Steps Ahead, AUT*

The cycle of nature in the biochar–heating plant

Tobias Ilg, *Energiewerke Ilg GmbH, AUT*

Climate impact of biomass small combustion plants calculated using real measurement data from the TFZ

Robert Mack, *TFZ Bayern, GER*

MURREAL – Murtaler Real Laboratory – On the way to 100% renewable energy to 2040

Josef Bärnthaler, *Energieagentur Obersteiermark, AUT*

15:00 Coffee Break & Poster Presentation

Language **German** 

Matchmaking at the popular „Bioenergy–Heurigen“ Room 14, Wednesday, 18th to Friday, 20th of January 10:00 – 17:00

Thursday
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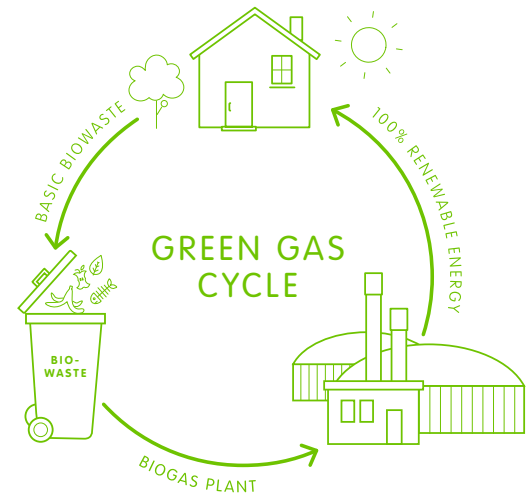


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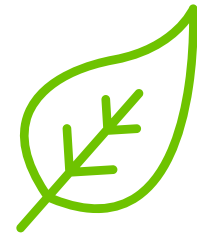
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ERA-NET Bioenergy – Transnational bioenergy research within the framework of the bioeconomy: Strengthening the energetic and material use of biogenic residues and waste, Room 9, 13:30 – 15:00

Thursday
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„Biomass is also a limited resource. The session will focus on several transnational research projects aiming at improving the valorisation of biogenic wastes and residues for energy and bioproducts.“

Chair: Carina Lemke, FNR, GER



„The most important Austrian renewable energy sector is bioenergy, amounting 53% of total renewable energy consumption. International exchange and joint research activities in this field enable industrial circular economy and energy independency.“

Co-Chair: Hannes Bauer, BMK, AUT



Part II of Highlights of Bioenergy Research takes place in this ERA-NET-Session

13:30 Opening

ERA-NET Bioenergy: Pulling bioenergy research together
Carina Lemke, FNR Fachagentur Nachwachsende Rohstoffe, GER

BioHEAT – Development of a process chain based on opportunity fuels for heat production in industrial processes
Matthias Kuba, BEST, AUT

VARESI – Valorisation of industrial residues for a sustainable industry
Wolfgang Gabauer, BOKU, AUT

Up-Whey – Upstream processing of lactose whey for bulk chemicals and energy production
Michael Mandl, tbow research, AUT

PUMA – Profitable 2G-bioethanol plants – Parallel Use of Fractionated Lignin in Multiple Applications
Juha Aloha, Bisy - Biology for Synthesis, AUT

15:00 End

Parallel Session 6

Clean and efficient combustion and fixed bed gasification

Room 5, 15:30 – 17:00

Chair: Manuel Schwabl, *BEST, AUT*

15:30 **Opening**

Operating license for stoves – emission reduction by training the operator of a stove

Claudia Schön, *TFZ Straubing, GER*

Gasification of waste wood assortments in a floating fixed bed reactor

Michael Kresta, *DBFZ, GER*

Efficiency increase of biomass combustion systems by a modular CO-lambda optimization: method and results from long-term verification

Christopher Zemann, *TU Graz, AUT*

Cost efficiency of local biomass heating plants: The case of Austria

Bernhard Mahlberg, *IWI Industriewissenschaftliches Institut, AUT*

Small scale agri-gasification: gasifier plus engine prototype optimization

Valerio Magalotti, *Yanmar R&D Europe S.r.l., ITA*

17:00 **End**

Parallel Session 7

Politics and Markets

Room 6, 15:30 – 17:00

Chair: Hubert Röder, *HSWT/TUM Campus Straubing, GER*

15:30 **Opening**

Bioenergy: Lessons learned – historical review, status quo, outlook

Manfred Wörgetter, *Senior Consultant, AUT*

Market uptake support for intermediate bioenergy carriers – MUSIC project results

Rainer Janssen, *WIP Renewable Energies, GER*

Thermal upgrading by Torrefaction/Carbonization, a supply and demand side sector update

Michael Wild, *International Biomass Torrefaction Council (IBTC), BEL*

Production capacity and outlook for advanced biofuels worldwide


Andrea Sonnleitner, *BEST, AUT*


Bioenergy in the Green Deal

Jean-Marc Jossart, *Bioenergy Europe, BEL*

17:00 **End**

Thursday
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Language **English** 

Language **English** 

Parallel Session 8

Green gas biorefining processes

Room 8, 15:30 – 17:00



Chair: Hermann Hofbauer, *TU Wien, AUT*

15:30 **Opening**

Utilization of biomass for high-purity hydrogen production with chemical looping

Bernd Stoppacher, *TU Graz, AUT*

Upgrading of producer gas from small scale biomass air gasification: hydrogen yield enhancement over a char bed reactor

Francesco Patuzzi, *Free University of Bolzano, ITA*

First results of mass and energy balances of a 1 MW advanced dual fluidized bed steam gasification demonstration plant

David Kadlez, *TU Wien, AUT*

Dual fluidized bed steam gasification of plastic rejects: Behavior of tar formation in a pilot plant with a counter-current column and flexible fuel input

Miriam Huber, *BEST, AUT*

ReGas 4 Industry – Gases from renewable residual sources for industry

Florian Benedikt, *TU Wien, AUT*

17:00 **End**

Parallel Session 9

Biomass-based negative emission technologies

Room 9, 15:30 – 17:00

Chair: Tobias Pröll, *BOKU, AUT*

15:30 **Opening**

Overview on the new Commission Proposal on the EU certification for carbon removals and next steps in the legislative process

Manolis Karampinis Prizzi, *Bioenergy Europe, BEL*

Findings of the BECCS pilot plant at Stockholm Exergi *Vertreter von*
Fabian Levihn, *Stockholm Exergi, SWE*

CO₂ capture technologies for biomass and waste combustion CHP units

Stefan Penthor, *Wien Energie, AUT*


Technical storage potential for biogenic CO₂ in the geological structures of Austria


Holger Ott, *MU Leoben, AUT*

17:00 **End**

Thursday
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* requested

Language **English** 

Language **English** 



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PROGRAMM

Block I: Zukunft der Waldwirtschaft - Welche Rolle spielt die Kreislaufwirtschaft?

- 09.00 Eröffnung und Begrüßung
- 09.10 Europäische Perspektive für die Branche Waldwirtschaft
- 09.25 Die Rolle der Leistungsfähigkeit der europäischen Wälder für eine resiliente EU
- 09.40 Kreislaufwirtschaftsstrategie – Bedeutung für die Waldwirtschaft
- 09.55 Bioökonomie und Kreislaufwirtschaft aus Sicht der Wald- und Holzpolitik


Block II: Kreisläufe in der Waldwirtschaft schließen

- 11.00 Materialkreislauf - Ansprüche an den Rohstoff Holz
- 11.25 Kohlenstoffkreislauf - Was Bioökonomie leisten kann
- 11.50 Energiekreislauf - Raus aus der Abhängigkeit
- 12.15 Podiums- und Publikumsdiskussion:
Österreichs Weg zu mehr Bioökonomie durch aktive Waldbewirtschaftung

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Room 1, 09:00 – 13:00

Language **German** 

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Parallel Session 10

Waste biorefinery technologies for accelerating sustainable energy processes – Special session of WIRE – CA20127, Room 6, 09:00 – 10:30

Chair: Katharina Fürsatz, *BEST, AUT*



09:00 Opening

Biomass as a sustainable and renewable raw material for a greener future

Rui Galhano dos Santos, *C5Lab, CERENA, IST-UIsboa, POR*

Valorization potential for energy of Arundo donax biomass cultivated in heavy metal contaminated soils

Leandro Gomes, *NOVA School of Science and Technology, POR*

A semi-detailed kinetic model for biomass pyrolysis and gasification: status, challenges and perspectives

Alessio Frassoldati, *Politecnico Milano, ITA*

Biomethane production from African fodder cane biomass cultivated in heavy metal contaminated soils

Barbara Rachele Ciaramella, *Università Catania, ITA*

Biorefinery technologies integration in a biomass unit for bioenergy production and zero-carbon emissions

Charalambo Chasos, *Frederick Universität Zypern, CYP*

10:30 Coffee Break & Poster Presentation

Language English 

Parallel Session 11

Digital Methods and Tools
Room 7, 09:00 – 10:30

Chair: Markus Göllles, *BEST, AUT*

09:00 Opening

Development of multi-scale models of biomass based chemical looping processes

Thomas Steiner, *BEST, AUT*

Application of flexible tools in energy intensive industries

Nikolaos Margaritis, *CPERI & CERTH, GRC*

Optimizing the value of solid biomass-based (hybrid) systems in the context of the cellular approach

Lukas Richter, *DBFZ, GER*


Design of a digital twin for a pilot plant for synthetic natural gas production

Stefan Jankovic, *TU Wien, AUT*

Operational optimization and error detection in biomass boilers by model-based monitoring: methods and practice

Christopher Zemmann, *BEST & TU Graz, AUT*


10:30 Coffee Break & Poster Presentation

Language English 



Workshop: Thermal upgrading of Biomass by Torrefaction and Carbonization

Room 8, 09:00 – 10:30

Language English 

Friday
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Chair: Michael Wild, *IBTC, BEL*

In this workshop some of the successfully implemented torrefaction initiatives will be presented and the development from pure fuel product to metallurgical process input and higher value products from carbonized biomass will be discussed. The introductory presentations will be followed by a panel discussion, which also invites the audience to participate.

About the IBTC:

Torrefied biomass is one of the most advanced solid biofuels and the only viable source of renewable solid carbon, with the potential to become a standardised commodity and a tangible alternative to fossil fuels and fossil carbon on all levels at a global scale. The IBTC sees sustainably produced torrefied biomass efficiently replacing fossil coal in all industries and applications and sequestering atmospheric carbon permanent into the soil by this speeding up the global transition towards a carbon-neutral economy and the limitation of CO₂ in the atmosphere.

biomasstorrefaction.org

09:00 Opening

International Biomass Torrefaction and Carbonisation Council (IBTC) – new developments

Michael Wild, *Wild&Partner, AUT*

Green Coal – new carbonization technologies

Lukas Schirrhofer, *Polytechnik, AUT*

Non-woody biomass: Pushing towards alternative feedstock for torrefaction

Wolfgang Moser, *Next Fuel, SWE*

Natural Based Binders – Why binders are not a necessary evil, but rather a performance enhancer that also opens new doors

Carsten Mergelmeyer, *C&D, GER*

10:00 Panel discussion

10:30 End



Exterior photo of the Green Carbon plant with the carbonized material filled in BIG BAGs filled carbonized material ©Polytechnik



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Wer Ökostrom abdreht, ...   ... dreht Atomstrom auf! 



WS: District heating network 4.0 Room 9, 09:00 – 12:30



Friday
20.
January



„ACR institutes are outsourced research departments for SMEs, which at the same time offer support for day-to-day problems.“

Chair: Richard Zweiler, *GET, AUT*

ACR (Austrian Cooperative Research) as the largest R&D organization in Austria for applied science supports small- and medium enterprises in terms of an external R&D department.

The ACR-institutes AEE - Institute for Sustainable Technologies (AEE IN-TEC), Güssing Energy Technologies (GET), Institute for Industrial Research (IWI) and the Austrian Tiled Stove Association (KOV) have started a joint platform called "Nahwärmeverbund 4.0", wherein they developed a series of tools for optimization of district heating plants. The outcomes of the analysis of selected district heating systems as well as the R&D-portfolio will be presented to support district heating operators.



Chair: Richard Zweiler, *GET, AUT*

09:00 **Opening**

Presentation of the local heating network 4.0

Klaus Paar, *GET, AUT*

Benchmarking of biomass heating plants

Christian Ramerstorfer (*AEE*) & Bernhard Mahlberg (*IWI*), *AUT*

Current challenges from the operator's point of view

Anton Taschner, *Bio Fernwärme Siegraben eGen & Heizwerkeverband Burgenland, AUT*

Subsidies for biomass local heating

Christof Horvath, *KPC, AUT*

World Cafe on the questions of the current challenges for biomass heating plants, short-term solutions to the problems and required external support

Gastgeber der Tische des World-Cafe: *AEE, GET, IWI*

Summary of workshop results and conclusion

Richard Zweiler, *GET, AUT*

12:30 **Lunch break & poster presentation**

Language **German** 

Parallel Session 12

Biomass fuel and ash characterization

Room 6, 11:00 – 12:30

Chair: Daniel Kuptz, *TFZ Technologie- und Förderzentrum im Kompetenzzentrum für Nachwachsende Rohstoffe, DEU*

11:00 Opening

Characterisation of waste wood for the use in floating fixed bed gasification

Anna Szépannek, *MCI Management Center Innsbruck, AUT*

Do recovered wood streams always fulfill criteria for combustion?

Martin Weigl-Kuska, *Holzforschung Austria, AUT*

Quality monitoring of practical wood chips samples

Josef Rathbauer, *HBLFA Francisco Josephinum – BLT Wieselburg, AUT*

Accurate determination of the application critical parameter Cr(VI) in Biomass Ash

Michael Ecker-Eckhofen, *BEST, AUT*

Towards a more accurate and fast determination of parameters impacting the calorific value of solid biofuels

Anne Mette Frey, *DTI Dänisches Technologieinstitut, DNK*

12:30 Lunch Break & Poster Presentation

Parallel Session 13

Flexible bioenergy and biomass-based hybrid energy systems

Room 7, 11:00 – 12:30

Chair: Beike Sumfleth, *DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, DEU*

11:00 Opening

Overview on flexible bioenergy options and implementation

Daniela Thrän, *UFZ Helmholtz-Zentrum für Umweltforschung, GER*

Increasing the fuel flexibility of biomass firing systems through online sensors

Jürgen Oischinger, *Fraunhofer UMSICHT, GER*

Increasing the flexibility of a fixed-bed biomass gasifier through model-based control strategies: method and practical verification

Clemens Hollenstein, *TU Graz & BEST, AUT*


Solutions and elements for the flexibilization of biomass-based district heating grids


Joachim Kelz, *AEE – Institut für Nachhaltige Technologien, AUT*

Predictive control of biomass and biogas-based CHPs at the intersection between the electricity grid and heating networks – Improving electricity market participation through optimization and demand side management

Daniel Muschick, *BEST, AUT*

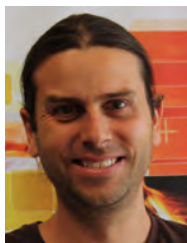
Friday
20.
January

Language English 

Language English 

Workshop: Biochar, Room 8, 11:00 – 15:00

Biochar – a valuable additive for advanced materials



„Biochar is more than just a carbon sink – biochar composite materials make a significant contribution to achieving the climate goals, can improve product quality and at the same time be economically sensible.“

Chair: Stefan Martini, BEST, AUT

Biochar convinces with its high level of diversity due to its origin and production process. The wide range of properties can even be expanded by appropriate post-processing steps. This flexibility can be used in so-called composite materials to achieve tailor-made material properties. In addition to the substitution of fossil carbon, which today is (still) indispensable in numerous industrial processes (carburizing of steel and cast materials, chemical industry, etc.), biogenic carbon can also open up new possibilities due to its diverse nature. In the workshop, possible applications of biochar as a material component will be presented on the example of current projects in the fields of plastic and concrete industry. The potential of biochar as a carbon-source in the material manufacturing industry, the necessary steps for its further development and undesirable developments, will be discussed with experts of the manufacturer and the user side.



Language English

Friday
20.
January

11:00 **Welcome and Workshop-Introduction**

Stefan Martini, BEST, GER

Experiences in biochar-polymer composite production

Andrea Brunetin, NADIR, ITA

Dielectric properties of biochar, biochar-polymer composites and possible applications

Oliver Pischler, Graz University of Technology, IHS, AUT

Discussion

Introduction Green Carbon Lab

Elisabeth Wopienka, BEST, AUT

12:30 **Mittagspause**

Project presentation Alps4greenC – Implementation pathways for sustainable Green Carbon production

Konstantin Moser, BEST, AUT

Green concrete – from climate killer to climate saver

Julia Roth, CarStorCon Technologies, GER

Electrically Conductive Biocomposites Based on PHBV and Wood-Derived Carbon Fillers

Christoph Unterweger, Wood K plus, AUT

Fuel cell membrane electrode assembly with green carbon support

Minoj Gnanaseelan, FILK Freiberg Institute, GER

Part 2 see next page



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Workshop: Biochar Part II

Production, upgrading and use of green carbon and biomass ashes

Room 8, 13:30 – 15:00

Potential of bottom ashes from non-woody biomass combustion as sustainable supplementary cementitious materials

Volker Lenz, *DBFZ, GER*

Influence of carbonization process and additives on the quality of biochar pellets

Niklas Illich, *BEA Institut für Bioenergie GmbH, AUT*

Emission reduction, nutrient retention and carbon sequestration in the storage of liquid manure with bio-char from wood gasification

Lucas Schuchter, *MCI Management Center Innsbruck, AUT*

Low-tech CO² negative emission district heating supply based on pyrolysis of low-value biomass and biochar soil storage

Tobias Pröll, *BOKU, AUT*

15:00 Coffee Break & Poster Presentation

Workshop: Potentials and limits of „green“ growth in the Austrian

forest-based bioeconomy

Room 2, 13:30 – 15:00


Chairs: Tobias Stern, *University of Graz, AUT*
Claudia Mair-Bauernfeind, *University of Graz, AUT*
Raphael Asada, *University of Graz, AUT*


The transformation of the economy towards a biobased economy is on the political agenda in the European region. In addition to reduced dependence on fossil resources and lower greenhouse gas emissions, the European Commission expects the creation of new business opportunities and impulses for the economy and employment rate in rural areas.

Six students of Environmental Systems Science (University of Graz, Graz University of Technology) have examined the potentials and limitations of Austria's forest-based bioeconomy for one semester. Three development paths mentioned in research and policy were analyzed in great detail – their findings will be discussed in the workshop. In particular, the workshop discusses the existing raw material, efficiency and innovation potentials of the Austrian forest-based sector until 2040 and, moreover, main factors limit the contribution of these potentials to „green“ growth.

Friday
20.
January



Language English 

Language German 

Workshop: Digital technologies in agriculture and forestry – current status and outlook

Room 9, 13:30 – 15:00

HBLFA Francisco Josephinum
Wieselburg

Friday
20.
January



„Everyone is talking about digitalization. Which applications have arrived in practice? This workshop will attempt to provide an answer to that.“

Chair: Josef Rathbauer, HBLFA Francisco Josephinum, BLT Wieselburg, AUT

Digitalization is omnipresent in all areas of our lives. Smartphones are used totally naturally for communication, research and many other applications. In agriculture and forestry, digital technologies are used in various areas. Meanwhile there exist sophisticated systems (farm management systems) which process data from the cultivation of agricultural land and animal husbandry to make it available for documentation, for economic assessment and as a basis for management.

Other applications are section-specific farming, estimation of biomass yields and the coordinated use of machines and equipment.

13:30 Opening

Josef Rathbauer, HBLFA Francisco Josephinum, AUT

What can modern farm management and information systems offer?

Reinhard Streimelweger, Knotenmanager Wieselburg – Haus der Digitalisierung, AUT

Field management and logistics: How to benefit from satellite data and digital tools

Johann Prankl und Andreas Prankl, Farmdok GmbH

Digital tools für site-adapted fertilization

Lukas Handl, Josephinum Research, AUT

Artificial Intelligence (AI) in Agriculture: Challenges, Benefits and Use Cases

Peter Riegler-Nurscher, Josephinum Research, AUT

15:00 End



Workshop: Digitalisation in District Heating Supply – with data to optimized systems and new business opportunities – Special Session organized by IEA DHC Annex TS4

Digitalisation of District Heating and Cooling Systems, Room 7, 13:30 – 15:00

Friday
20.
January



„The main technology for modernizing our (central) heat supply and incorporating significant amounts of heat from renewable sources into our energy system is digitalization.“

Chair: Dietrich Schmidt, *Fraunhofer IEE, GER*



„Increasing digitalization is allowing district heating systems to be operated more efficiently and flexibly.“

Co-Chair: Markus Gölles, *BEST, AUT*

Digitalization of transfer stations in heating networks with LoRaWAN and methods for automated operational monitoring and return temperature reduction

Dirk Pietruschka, *HFT Stuttgart / University of Applied Science Stuttgart, GER*

DistrictLab-H: a tool to support temperature reduction efforts in District Heating Systems

Mathieu Vallee Gronauer, *CEA, FRA*

15:00 End

13:30 Opening

Integration of digital processes for optimised operation of and efficient inclusion of renewable heat sources into district heating

Dietrich Schmidt, *Fraunhofer IEE, GER*


End-to-end optimization software for district energy systems

Peter Ott, *Danfoss, AUT*

Remote readout as a chance for heating grid optimisation via intelligent use of data

Hans Peter Gremel, *Kamstrup, AUT*



Language English 



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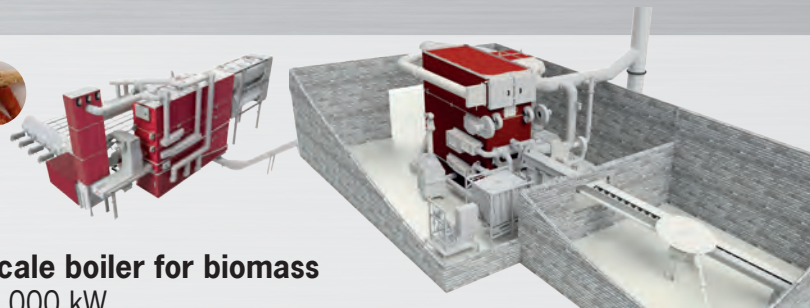
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Poster Presentations, Foyer

Selected conference contributions and projects will be presented within a poster presentation. The following topics will be presented in detail:

- Bioeconomy
- Biogas
- Fuel characterization
- Biomass heat and combustion technologies
- Biomass potentials and markets
- Logistics and Storage
- Electricity from solid biomass
- Energy crops and Residues
- Fuel and substrate preparation
- Pellets
- Sustainability
- New markets for technologies

The poster exhibition takes place in the foyer of the Messe Congress Graz and is accessible throughout the conference days (19th and 20th of January, 2023).

Furthermore, there will be guided poster sessions during the conference breaks, which enables the visitors of the conference to ask their questions to the scientists directly.



Thursday
19.
January
10:30–11:00 Uhr
12:30–13:30 Uhr
15:00–15:30 Uhr

Friday
20.
January
10:30–11:00 Uhr
12:30–13:30 Uhr
15:00–15:30 Uhr

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Conference Information




Date

18th to 20th of January, 2023

Conference languages

Simultaneous translation  

Language German 

Language English 

Registration

Wednesday, 18th of January, 2023, from 08:00 on

Thursday, 19th of January, 2023, from 08:00 on

Friday, 20th of January, 2023, from 08:00 on

Organization

Austrian Biomass Association

Franz Josefs-Kai 13

A-1010 Vienna, Austria

Tel: +43 (0) 1-533 0797-0

Fax: +43 (0) 1-533 0797-90

E-Mail: office@biomasseverband.at

Internet: www.biomasseverband.at



Room reservation

Graz Tourismus

Tel: +43 (0) 316-8075-0

Fax: +43 (0) 316-8075-15

E-Mail: info@graztourismus.at

Internet: www.graztourismus.at

Online-Booking:

https://www.graztourismus.at/kongress/de/kongresskalender/7.mittel-europaeische-biomassekonferenz_ccb_5958

Place

Messe Congress Graz, Messeplatz 1, 8010 Graz, Austria

Arrival

<https://mcg.at/locations/messe-graz/>



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Registration form

You can also simply fill in the attached registration form and send it via post to the Österreichischen Biomasse-Verband, Franz Josefs-Kai 13, 1010 Vienna or via Fax to +43 (0) 1/533 0797-90.

Closing date of registration

Friday, 13th of January, 2023 at 12:00

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- 1. European Pellet Forum:EUR 400,-
- Early bird until 15th of December, 2022EUR 300,-
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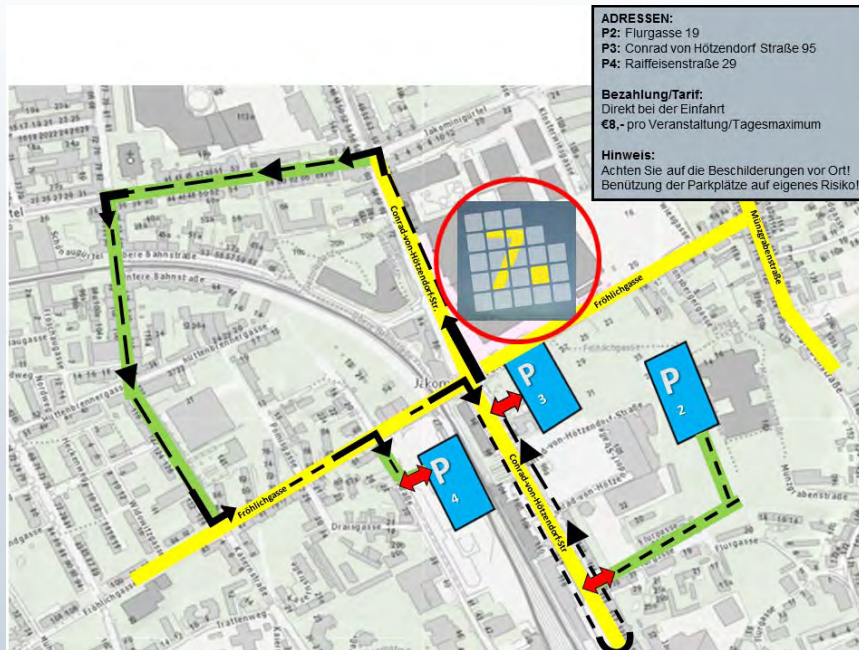
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Arrival by car: see image below

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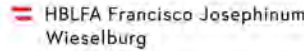
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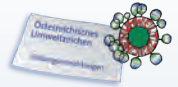
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