

# European Pellet Conference 2021

**22 June 2021  
Wels, Austria**

**HYBRID EVENT**

**The largest  
annual  
pellet event  
worldwide!**

**[www.pellets21.eu](http://www.pellets21.eu)**



# European Pellet Conference 2021

## Programme overview



### Strategy sessions

Updates on the Green Deal and other policies, technologies, markets, research, financing and case studies



### Young Biomass Researchers Conference

A conference presenting the work of young biomass researchers. The best contribution receives the "Best Young Biomass Researcher Award".



### Pellet Innovation Factory

Presentations on innovations in fuels, combustion, standards and business models



### Poster Presentation

An opportunity to display online successful biomass projects and products as well as results of EU projects to international experts



### World of Pellets









Updates and outlook on European and global markets by representatives from all over the world

## Bioenergy for a green recovery!



With the World Sustainable Energy Days, Upper Austria is the meeting place in June for the energy transition. Europe has set itself the ambitious target of becoming the first climate-neutral continent. We present and discuss solutions to practically implement the Green Deal. With highly-efficient and renewable energy systems, we will achieve economic growth, create new jobs and make the energy transition happen!

**Markus Achleitner, Regional Minister for Economy and Energy, Upper Austria**

Timetable	Online Event	On-site Event	Monday 21 June	Tuesday 22 June	Wednesday 23 June	Thursday 24 June	Friday 25 June
 European Pellet Conference	✓	✓					
 European Energy Efficiency Conference	✓	✓					
 Energy Efficiency Policy Conference	✓	✓					
 Industrial Energy Efficiency Conference	✓	✓					
 Smart E-Mobility Conference	✓	✓					
 Young Energy Researchers Conference	✓						
 Innovation Workshops	✓						
 Poster Presentation	✓						

## What is the European Pellet Conference?

With more than 450 participants each year, it is the largest annual pellet event worldwide. This meeting place for the global pellet community offers a great opportunity to get informed about current trends in the pellet and bioenergy world. It offers a series of sessions presenting the latest trends about markets, policies and technologies.

## Why pellets?

Energy efficiency and renewable energy are at the core of Europe's commitment to a clean energy transition. Biomass is a cornerstone for the success of this transformation in Europe and globally. Pellets are a clean, CO<sub>2</sub>-neutral and convenient fuel with growing market shares worldwide.

## Who attends the event?

- All business actors across the biomass value chain: forestry, fuels, logistics, equipment, energy companies, commercial and industrial pellet users, service providers, banks etc.
- the bioenergy research community
- representatives of public bodies (e.g. EU institutions, national, regional and local governments)
- **Over 450 experts each year from more than 50 countries!**

## When does it take place?

22 June 2021

## How to join?

Mark your calendar and register today ([www.wsed.at](http://www.wsed.at)).

This "special edition" of our annual conference will be held as a **hybrid event**: You can participate online from anywhere in the world. According to current planning, on-site participation will also be possible (following COVID rules in place at the time of the event). Registered participants will receive detailed guidance prior to the conference. On-site conference days in Wels/Austria will be 22 - 24 June (World Sustainable Energy Days).

## Where does it happen?

Wels/Austria. The region of Upper Austria is an ideal location for this conference: more than 25 % of all automatic biomass boilers sold in the EU are manufactured by Upper Austrian companies and pellet heating systems have become a standard solution in the region.

### NEW in 2021

- Bioenergy & Recovery
- Innovation Factory
- Update Green Deal



# European Pellet Conference 2021

22 June | 09.00

## Strategy session: A green recovery with bioenergy

Learn how we can make a green recovery happen in practice and how the pellet sector can profit from this deep transformation! We present the policies, technologies and markets that can get us there!

22 June 2021



- **Opening and welcome**  
Silvia Huber, Vice Mayor, City of Wels, Austria  
Gerhard Dell, OÖ Energiesparverband, Austria
- **The role of bioenergy in the EU energy and climate policies**  
Giulio Volpi, European Commission, DG Energy
- **Update on European pellet markets**  
Gilles Gauthier, Bioenergy Europe / European Pellet Council
- **Best Young Biomass Researcher Award**
- **A global look at bioenergy**  
Bharadwaj Kummamuru, World Bioenergy Association
- **A green recovery with pellets - a business perspective**  
Thomas Meth, Enviva, USA



**22 June | 11.00**

## **Driving out 17 million oil heating systems in the EU**

There are still 17 million oil heating systems in the EU emitting over 150 million tonnes of CO<sub>2</sub> every year. Pellets can play a key role in phasing out fossil fuels. This session presents concrete examples and solutions on how to make this happen.

- **Ambitious policies and programmes for phasing out oil-heating**
  - **Upper Austria:** Christiane Egger, OÖ Energiesparverband
  - **Germany:** Martin Bentele, Deutscher Energieholz- und Pellet-Verband (DEPV)
  - **France:** Axel Richard, SER/Flamme Verte
- **Addressing the air quality challenge: flameless pellet combustion**  
Stefan Ortner, ÖkoFEN, Austria
- **New approaches in ensuring pellet supply: Biomass Exchange**  
Andrius Smaliukas, Baltpool, Lithuania
- **How can digitisation help?**  
Volker Lenz, German Biomass Research Centre (DBFZ), Germany

**22 June | 14.00**

## **World of Pellets Session**

Leading experts from around the world share their views and insights on the development of pellet markets, which topics are key, and where. They provide market updates and outlooks.

- **Opening**  
Gordon Murray, on behalf of the European Pellet Council
  - **Spain**  
Pablo Roderó Masdemont, AVEBIOM / European Pellet Council
  - **Italy**  
Matteo Favero, AIEL
  - **Russia**  
Olga Rakitova, Infobio
  - **South Africa**  
Yaseen Salie, GreenCape
  - **China**  
Ming Shan, Tsinghua University
- Chairperson:**  
Gordon Murray, Wood Pellet Association of Canada





## Pellet Innovation Factory

Learn about innovative technologies, projects and solutions for pellets across the bioenergy value chain!

- **Innovations from Upper Austria: mass roll-out of pellet heating**
  - Gottfried Baumann-Leitner, Windhager Zentralheizung, Austria
  - Werner Emhofer, Fröling, Austria
- **Digitising the pellet supply chain for more efficiency**  
Lina Emilsson, MCD, Sweden
- **Increasing drying process efficiency with heat pumps**  
Alessandro Guercio, Guercio Energy & Environment/Turboden, Italy
- **Novel technology for producing high quality straw pellets**  
Javier Gil Barnó, CENER, Spain
- **Understanding decision making processes for pellet boiler investments**  
Neil Harrison, re:heat, UK
- **A container solution for pellet production**  
Christophe Garnier, Prodesa, France
- **Quality range and combustion behaviour of ENplus A1 certified pellets**  
Robert Mack, Technology and Support Centre (TFZ), Germany
- **Developing marginal land for bioenergy**  
Péter Gyuris, Geonardo Environmental Technologies, Hungary

## UPPER AUSTRIA THE REGION OF BIOMASS INNOVATIONS

The region of Upper Austria, one of Austria's nine regions with a population of 1.5 million, has a leading position in biomass heating.

The region is home to leading biomass companies: more than 25 % of all modern small-scale biomass boilers installed in the EU are manufactured by Upper Austrian companies.

Biomass heating systems have become a standard solution in the region and 35 % of all dwellings are heated by modern bioenergy systems. Stringent emission standards and cutting-edge technologies have contributed to rapid market development.

Over 1 billion Euro per year are invested in biomass fuels and equipment. Bioenergy has emerged as an important economic driver for the region and plays a key role in the region's ambitions in achieving the energy transition.



## A leader region in the energy transition

Upper Austria is a leader in the clean energy transition: already 31 % of the primary energy is supplied by renewables, half of these renewables are clean and sustainable biomass. Through a smart combination of energy efficiency and renewable energy, greenhouse gas emissions of the entire buildings sector were reduced by 39 % in the last decade.

The region's strategic approach to the energy transition supported the growth of a vibrant industry which successfully exports worldwide. The decoupling of energy consumption and economic growth in the past decade was a game changer, proving that energy efficiency and economic strength can go hand in hand.

- 15 % of the primary energy comes from sustainable biomass
- 35 % of all dwellings are heated with clean biomass
- over 6,000 jobs in the biomass heating industry
- 31 % of the primary energy is supplied by renewables
- 39 % reduction of greenhouse gas emissions in the buildings sector in the last decade
- 2.3 billion Euro invested annually in renewable energies and energy efficiency



# Young Biomass Researchers Conference

**21 June 2021**  
**Online only**

**21 June | 09.00**

This conference presents the work and the achievements of young energy researchers from all over the world.

- **Opening and welcome**  
Gerhard Dell / Christiane Egger,  
OÖ Energiesparverband
- **The energy transition needs young people!**  
Theodor Zillner, Federal Ministry for Climate Action,  
Environment, Energy, Mobility, Innovation and  
Technology, Austria

## Oral Presentations

- **Conversion of biomass materials to biochar through slow pyrolysis**  
Elif Gödekmerdan / Benginur Baştak / Günnur Koçar, Ege University, Turkey
- **Review of the energy efficiency of Fischer-Tropsch fuels**  
Anne van den Oever, Vrije Universiteit Brussel, Belgium
- **A novel horizontal microalgal photobioreactor: design and performance**  
Atenea Berumen-Solórzano, University of Glasgow, United Kingdom
- **Lifecycle GHG emissions from hydrothermal liquefaction of algae**  
Pratham Arora, Indian Institute of Technology Roorkee, India
- **Valorising grape stalks: A biorefinery approach**  
Sevim Özgül / Pinar Büyük Taban / Ahmet Eryaşar / Günnur Koçar, Ege University, Turkey
- **Solid rhenium catalysts for converting mucic acid to renewable adipic acid**  
Florian M. Harth / Brigita Hočevár / Miha Grilc, National Institute of Chemistry, Slovenia
- **Catalytic pyrolysis of lignin in the presence of different catalysts**  
Richard Nadányi, Slovak University of Technology in Bratislava, Slovakia





- **Upgrading biomass-derived furfural to industrially important compounds**

Aleksa Kojčinović / Miha Grilc, National Institute of Chemistry, Slovenia

- **Key operational parameters for fermentative chain elongation**

Laura Rovira Alsina / Meritxell Romans Casas, University of Girona, Spain

- **Catalytic conversion of 5-HMF using nickel as active transition metal**

Brett Pomeroy / Miha Grilc, National Institute of Chemistry, Slovenia

- **Solid biofuel markets in the EU - development and current status**

Niels Kirstein, DBFZ - German Biomass Research Centre, Germany

- **Design and performance of a thermoelectric cogeneration cooking stove**

Lionel Faysal Koska Mbraogue / Guy Bertrand Tchaya / Achille Nchamo Tchouambou, Maroua National Higher Polytechnic School, Cameroon

- **Efficient power generation from waste heat of biomass cookstoves**

Oscar Ivanov Flores Gaitán / Diego Alejandro Quan Reyes / Avishek Goel, University Galileo / Delft University of Technology, Guatemala / The Netherlands

- **Production, distribution and acceptability of biomass briquettes**

David Kisakye, Global Green Growth Institute, Uganda

- **Bioenergy and food self-sufficiency: Can we have both?**

Ehsan Tavakoli Hashjini / José Luis Vicente-Vicente, Leibniz Centre for Agricultural Landscape Research, Germany

**Chairperson:**

Lukas Kranzl, Technische Universität Wien, Austria



# Young Biomass Researchers Conference

**21 June 2021**  
**Online only**

## Poster Presentations

- **Elucidating the reaction mechanism for lignin hydro-treatment with microkinetic modelling**  
Miha Grilc / Ana Bjelić, National Institute of Chemistry / Ghent University, Slovenia / Belgium
- **Bio-conversion of cassava bagasse to xanthan gum & animal feed protein**  
Damilare Ogundipe, University of Ibadan, Nigeria
- **Microalgal biochemical-composition and biodiesel production**  
Nada Chabbeh / Sheyma Khemiri / Nadia Khelifi / Issam Smaali, University of Carthage, Tunisia
- **Measuring CO and NO<sub>x</sub> emissions from corn stover pellets**  
Viacheslav Antonenko / Vitalii Zubenko, National Academy of Sciences, Ukraine
- **Intelligent system optimisation of the output of biogas production**  
Herman Kankeu Tapchom / Tize Koda Joel, University of Maroua, Cameroon
- **Cultivation and utilisation of energy crops in Ukraine**  
Anna Pastukh / Oleksandra Tryboi, Bioenergy Association, Ukraine
- **Enhancing anaerobic biogas production through biostimulation**  
Emmanuel Kweinor Tetteh, Durban University of Technology, South Africa
- **Solar energy for the distillation of bioethanol**  
Bastian Borel Ymele Tadjou / Guy Bertrand Tchaya / Etienne Tchoffo Houdji / Jean Benjamin Bidias / Adolphe Simo, University of Maroua, Cameroon



## Practical information

### Hybrid Event:

- Online participation from anywhere in the world
- On-site participation: following COVID rules in place at the time of the event, registered participants will receive detailed guidance prior to the event. On-site conference days in Wels/Austria will be 22 - 24 June.

### Conference venue

Stadthalle Wels, Pollheimerstrasse 1, 4600 Wels, Austria

### Conference fees

All fees include conference documentation.

All fees plus 10 % VAT

- 70 Euro for all WSED conferences, 21 - 25 June (online and presence)
- 30 Euro for the European Pellet Conference, 22 June (online and presence)
- Free participation in the Young Biomass Energy Researchers Conference, 21 June (online)
- Students can apply for free participation to [office@esv.or.at](mailto:office@esv.or.at)

### Conference languages

Simultaneous translation in English and German

## The audience – the whole pellet sector!

Each year, the European Pellet Conference attracts over 450 experts from more than 50 countries including:

- a wide range of business actors engaged in the energy transition: technology and equipment companies, energy companies, service providers, planners, developers, financing community etc.
- the sustainable energy research community
- representatives from public bodies (e.g. EU institutions, national, regional and local governments, energy agencies)

## The conference organiser OÖ Energiesparverband

The OÖ Energiesparverband (ESV) is the energy agency of Upper Austria. The agency, which was established by the regional government, drives the energy transition by promoting energy efficiency, renewable energy and innovative energy technologies. It provides comprehensive services to private households, businesses of all sizes and municipalities. It also supports energy technology companies in the context of the Cleantech-Cluster.

## Upper Austria - a leader in the clean energy transition

The region of Upper Austria, one of Austria's nine regions, is a leader in the clean energy transition: 31 % of the primary energy comes from renewables. 35 % of all dwellings are heated with biomass. The region's strategic approach to the energy transition supported the growth of a vibrant industry which successfully exports worldwide.



# European Pellet Conference 2021

22 June 2021  
Wels, Austria

450 participants  
50 countries  
40 speakers

## Conference office

OÖ Energiesparverband  
Landstrasse 45, 4020 Linz, Austria  
Tel. +43/732/7720-14386  
office@esv.or.at, www.esv-en.at,  
www.wsed.at

## Registration

Online at [www.wsed.at](http://www.wsed.at)

## How to reach Wels?

- by railway: direct connections from Vienna and Vienna airport, Linz, Salzburg, Munich, Paris, Brussels, etc.
- by road: A1 and A25 motorways
- by air: airports in Linz (17 km from Wels), Vienna (222 km), Salzburg (110 km), Munich (247 km)



Federal Ministry  
Republic of Austria  
Climate Action, Environment,  
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