

## IEA Bioenergy Workshop Lyon, 19 October 2023

# BIOS of moderators, speakers and panellists

### Welcome/introduction &

### Session 1: The role of bioenergy in energy transition strategies

#### *Moderators*

##### **Dina Bacovsky, IEA Bioenergy / BEST (Austria)**



Dina Bacovsky is unit Head Biofuels at BEST Bioenergy and Sustainable Technologies in Austria. Since 2023, Dina is Chair of the IEA Bioenergy Technology Collaboration Programme. She is also secretary of the Advanced Motor Fuels Technology Collaboration Programme (AMF TCP). Dina is active in international networking and information exchange on biofuels and bioenergy R&D.

##### **Emilie Machefaux, ADEME (France)**



Emilie Machefaux is Head of the Renewable Heat Department and of the Unit Wood, Bioresources and Biofuels at ADEME.

She joined ADEME in 2008 where she was in charge of developing standards for environmental labels and declarations (European Ecolabel, ISO standards) in the Eco-design and Sustainable Consumption Department. In 2014, she became deputy head of the Climate department. From 2017 until 2022, she has been Head of the forest, food and bioeconomy department at

ADEME.

#### *Welcome*

##### **Emmanuel Goy, ADEME**



Emmanuel Goy is Deputy Regional Director of ADEME Auvergne Rhône Alpes.

He (re)joined ADEME in 2021, after 25 years working on many aspects of energy transition for a private consultant company, a local authorities' network and an NGO specialized in renewable energies. He is in charge of energy transition and innovation at ADEME Lyon's office.

## **Speakers**

### **Jeremy Moorhouse, International Energy Agency (IEA)**



Jeremy Moorhouse is Bioenergy Lead at the International Energy Agency (IEA). He joined the IEA in November 2020. He is responsible for developing the IEA's mid-term biofuels and bioenergy forecasts and contributes to bioenergy related work across the Agency. He has 15 years of experience developing program strategies and objectives, analysing energy systems, managing teams and collaborating with industry and governments to develop climate and renewable energy policy.

### **Christophe Kassiotis, Directorate General Energy and Climate (DGEC) (France)**



Christophe Kassiotis serves as chief of staff to the Director General of Energy and Climate (DGEC), at the Ministry of Energy Transition since 2021. He is involved in the internal coordination of the DGEC, the development of the hydrogen sector and new energy and decarbonization technologies. From 2013 to 2021, he led teams at the Nuclear Safety Authority responsible for the control of nuclear installations, in particular the waste department, research facilities and the fuel cycle. He holds a PhD in scientific computing.

### **Laís Garcia, Ministry of External Relations, Brazil**



Laís de Souza Garcia is the Head of the Renewable Energy Division at the Brazilian Ministry of External Relations. A career diplomat for more than 15 years, she is responsible for Brazil's bilateral energy cooperation portfolio and represents Brazil in several energy fora, such as the Biofuture Clean Energy Ministerial Initiative.

### **Oshada Mendis, Natural Resources Canada**



Oshada Mendis serves as the Deputy Director of the Clean Fuels Portfolio at Natural Resources Canada's Office of Energy Research and Development (OERD). In essence, OERD takes the lead in advancing the Government of Canada's efforts to drive innovation in energy research and development, directing investments into government laboratories as well as the private sector.

## Panel session

### *Moderators*

#### **Paul Bennett, Scion (New Zealand)**



Dr Paul Bennett is the Portfolio Leader for Integrated Bioenergy at Scion, New Zealand. Paul has spent over 30 years working on a range of fuels, biofuels and bioenergy issues. He has worked as an independent consultant, for quasi-government organisations and large corporates developing new technologies and business opportunities in biofuels. Paul and his team at Scion are investigating new economic opportunities in industrial biorefining, bioenergies and bio-based substitutes for petroleum and other declining resources.

#### **Birger Kerckow, FNR (Germany)**



Birger Kerckow is Head of the Department for EU and International Cooperation at the Fachagentur Nachwachsende Rohstoffe e.V. (Agency for Renewable Resources, FNR) in Germany. He is also in charge of the national programme for the promotion of measures for the energetic use of farm manure and for emission reduction in farm manure management. Birger represents Germany in the Executive Committees of the IEA Bioenergy TCP and the IEA Advanced Motor Fuels (AMF) TCP.

### *Panel members:*

The speakers of Session 1 will participate in the panel. They will be joined by these extra panellists:



#### **Maria Georgiadou, European Commission, DG Research & Innovation**

Dr Maria Georgiadou works as a Senior Expert in the Directorate-General for Research and Innovation. She steers the strategic orientation for research and innovation in Renewable Fuels, Biofuels and Bioenergy and the development and implementation of relevant research and innovation programs and policies under the European Union's Framework programs. Maria holds PhD and MSc degrees in Chemical Engineering (UIUC, USA), Master in Business Administration and Integrated Master in Chemical Engineering (AUTH, Greece).

#### **Jim Spaeth, US Department of Energy**



Jim Spaeth serves as the Systems Development and Integration Program Manager for the U.S. Department of Energy (DOE) Bioenergy Technologies Office. His current portfolio includes the DOE investment in integrated biorefinery projects focused on the development of advanced biofuels and bioproducts including sustainable aviation and marine biofuels. Jim leads the international bioenergy efforts for DOE, and is the current Chair of the Biofuture Clean Energy Ministerial Initiative.

## Session 2: Flexible bioenergy and the use of biogenic CO<sub>2</sub> in future energy systems

### *Moderators*

#### **Daniela Thrän, UFZ & DBFZ (Germany)**



Prof. Daniela Thrän is head of the Department of Bioenergy at the UFZ (Helmholtz Centre for Environmental Research) and deputy scientific managing director of DBFZ (German biomass research centre) both located in Leipzig. She holds the chair for bioenergy systems at the University of Leipzig and is spokesperson of the UFZ integrated platform Sustainability Transformation. She currently leads IEA Bioenergy Task 44 on Flexible Bioenergy and System Integration.

Daniela contributes her expertise on the sustainable use and production of biomass to numerous committees and is Co-Chairwoman of the German Bioeconomy Council. Professor Thrän leads research projects in the field of bioenergy, bioeconomics and the spatial impact of renewable energies and has developed the "Smart Bioenergy" approach, considering technologies and concepts needed for a more flexible bioenergy provision in future energy systems.

#### **Zoe Harris, University of Surrey (United Kingdom)**



Dr Zoe M Harris is a Senior Lecturer in Environment and Sustainability at the University of Surrey. Zoe's core research focuses on how we can use land to provide food and energy provisions whilst minimising environmental impacts. She is currently assessing the feasibility of vertical farming and the potential it has to support the deployment of Bioenergy with Carbon Capture and Storage (BECCS).

### *Speakers*

#### **Markus Millinger, Chalmers University of Technology (Sweden)**



Markus Millinger currently works at Chalmers University of Technology on energy systems modelling. Previously he also worked for the Helmholtz Centre for Environmental Research (UFZ). He conducts research on the role of biomass in future energy systems. He has developed several models for assessing biofuel future scenarios from different perspectives. Markus has a background in mechanical engineering and industrial ecology.

**Tilman Schildhauer, Paul Scherrer Institute (Switzerland)**



Dr. Tilman Schildhauer is Senior Scientist Thermochemical Processes and Scientific Lead Methanation and Industrial Power-to-X at the Paul Scherrer Institute (PSI) in Switzerland.

**Christiane Hennig, DBFZ (Germany)**



Christiane Hennig is a senior research associate in the department of biomass in the energy system at the German Biomass Research Centre DBFZ since 2008. Here she is engaged in research projects in the fields of energy transition and strategies promoting the use of biomass towards a circular bioeconomy and low carbon society. Christiane is co-lead of IEA Bioenergy Task 40 Deployment of biobased value chains and leads the inter-Task activities on BECCUS.

**Christopher Galik, North Carolina State University (USA)**



Christopher Galik joined North Carolina State University in August 2016 in a program on Sustainable Energy Systems and Policy. Galik is professor in the Department of Public Administration, and works at the intersection of public policy, economics, and technology, with an emphasis on energy and environmental governance. He obtained a bachelor's degree in biology from Vassar College, a master's degree in resource economics and policy from Duke University, and a Ph.D. in forestry and environmental resources from North

Carolina State University.

**Aïcha El Khamlichi, ADEME (France)**



Aïcha El khamlichi graduated from ENSCR Rennes as chemical engineer in 2007 and received a PhD in Chemistry from University of Rennes in 2010. She works for ADEME (the French Agency for Environment and Energy) as Technical Coordinator Biobased Products and Biofuels, and is also specialised in carbon capture, use and storage (CCUS).

## Session 3: Promising developments in bioenergy concepts

### *Moderators*

#### **Chourouk Nait Saidi, ATEE (France)**



Chourouk Nait Saidi works at the Technical Association Energy and Environment (ATEE) in France, where she is Executive Officer of the Pyrogasification Club. She holds a PhD in Process and Energetic Engineering at ENSTA Paris.

#### **Berend Vreugdenhil, TNO (Netherlands)**



Berend Vreugdenhil started his career in 2006 at ECN, where his research was focused on developing indirect gasification technology to produce sustainable natural gas from biomass. He became leader of the gasification group within ECN. In 2018 ECN merged with TNO.

Since 2016, Berend leads the IEA Bioenergy Task 33 on gasification of biomass and waste.

### *Speakers*

#### **Marion Maheut, ENGIE (France)**



Marion Maheut is project manager at ENGIE, where she is responsible for the GAYA project. GAYA is an innovative process which converts various local solid residues such as biomass and non-recyclable waste from territories into a renewable substitute of natural gas.

#### **Joakim Lundgren, Luleå University of Technology (Sweden)**



Joakim Lundgren is Professor in Energy Engineering at the Division of Energy Science at Luleå University of Technology. He is also Guest Professor at Process Technology at the Department of Chemical Engineering at the KTH Royal Institute of Technology in Stockholm as well as Guest Senior Research Scholar at Agriculture, Forestry, and Ecosystem Services Research Group at Institute of Applied Systems Analysis (IIASA) in Laxenburg, Austria.

Lundgren is the deputy Director of the competence center CH2ESS (Center for Hydrogen Energy Systems Sweden), a research and knowledge initiative at Luleå University of Technology with a focus on fossil-free hydrogen production and use in industrial processes and energy systems, in close collaboration with Swedish industry. He is also since 2019, the Swedish

representative in IEA Bioenergy Task 33, Thermal gasification of biomass and waste, leading the sub-task on gasification-based hydrogen production.

### **Frédéric Thiollier, IDEA (France)**



Frédéric Thiollier works as Deputy Director of Bulk Logistic Activities in the IDEA group specializing in the field of logistics and storage of agri-food products.

In 2021, IDEA and IREMIA co-create HYMOOV to produce renewable gas (hydrogen/methane) from waste wood.



Christian is a senior consultant at Ea Energy Analyses where he has been working with energy and transport analyses for the past 15 years. In recent years, his work has focused on the fields of PtX and CCS. This includes assisting large Nordic energy companies to investigate the potentials and perspectives of CCUS opportunities, as well as authoring reports on BECCUS (bioenergy with carbon capture and storage/utilisation). Christian is the Danish country representative in IEA Bioenergy's Task 40, and co-lead of the IEA Bioenergy BECCUS 2.0 Intertask Project.

### **Jean-Philippe Héraud, IFPEN (France)**



Jean-Philippe Héraud is Advanced Biofuels Project Manager at IFPEN at IFP Energies Nouvelles (IFPEN). He is working on the development of production processes for advanced fuels used in road and air transport made from renewable resources. Today, he is head of the Fischer-Tropsch and BioTfuel projects for IFPEN.

## **Closing**

### **Luc Pelkmans, IEA Bioenergy**



Luc Pelkmans is Technical Coordinator of the IEA Bioenergy Technology Collaboration Programme since 2016. He is also manager of the consultancy firm CAPREA Sustainable Solutions. Luc graduated as MSc in Mechanical Engineering in 1994 and worked for VITO – a Belgian research institute – from 1996 until 2017 as project manager on the topics of alternative transport fuels and drivetrains, biofuels, bioenergy and biobased economy.