



IEA Bioenergy
Technology Collaboration Programme

Workshop Announcement

IEA Bioenergy: Task 37

Biomethane: Timely solutions for successful implementation and use.

A virtual workshop hosted by IEA Bioenergy Task 37 and the University of Natural Resources and Life Sciences, IFA Tulln, Austria, April 15, 2021



INTRODUCTION

For a successful energy transition to a climate-friendly supply of primary and secondary energy vectors, biomethane must be produced in a manner which ensures a secure and sustainable process. Biomethane may be a central element of future circular economy systems producing energy on demand. It is possible to use established combustion systems and existing infrastructure, such as the natural gas grid or natural gas storage facilities. Hydrogen may be added to biomethane in existing natural gas infrastructure allowing for renewable and green gases to satisfy hard to abate sectors. Biogas also has a role in electro-fuel systems whereby hydrogen produced from electrolysis of variable renewable electricity may be converted to renewable methane and to liquid fuels such as methanol. Hydrogen may be reacted with CO₂ (preferable concentrated biogenic CO₂ streams such as in biogas) via a microbiological or catalytic process to produce renewable methane. Power to methane (or biomethanation) can be considered an advanced biogas upgrading process employing carbon capture and use; typically, the energy output as methane is increased by c. 70% as compared to the original biogas system.

The IEA Bioenergy (International Energy Agency Bioenergy) workshop "Biomethane", organised by the Austrian representatives in Task 37 of IEA Bioenergy and the University of Natural Resources and Life Sciences Vienna, IFA Tulln, will highlight different aspects of biomethane including for: certification; legislation; application examples; and financing. The workshop will also present research and new developments in the field of methanation. In addition to national contributions, there will be presentations from Germany, Switzerland, Great Britain, Sweden and the USA.

Task 37 of the IEA Bioenergy deals with the topic "Energy from Biogas". In addition to biogas production, the integration of biogas and biomethane into local and regional material and energy flows is an increasingly important topic in the Task. The workshop will take place within the framework of the international task meeting, which is now in its third online-only version and this time organised by the Austrian representatives in Task 37 of the International Energy Agency Bioenergy (IEA Bioenergy) and the University of Natural Resources and Applied Life Sciences Vienna, IFA Tulln.

PROGRAMME

Time	Presenter	Topic	Country	Company
9.00-9.07	Dr G Bochmann	Welcome from Boku	Austria	BOKU
9.07-9.15	Prof JD Murphy	Welcome from IEA Bioenergy Task 37	Ireland	IEA Bioenergy Task 37 Leader
9.15-9.40	Stefanie Königsberger	Biomethane Registry Austria – Challenges of the European certification system for renew	Austria	AGCS Gas Clearing and Settlement AG
9.40-10.05	Johannes Misensky	Biomethane map Austria, gas production and grid injection in Austria	Austria	AGGM
10.05-10.30	Robert Paulsteiner	H2 injection into the gas grid	Austria	Verbund
10.30-10.55	Florian Marko	National Energy Policies and Incentives for Biomethane Production	Austria	BMK
Break				
11.10-11.35	Jaqueline Daniel-Gromke	Retrofitting of existing biogas plants towards upgrading to biomethane	Germany	DBFZ
11.35-12.00	Urs Baier	Aspects of biomethane production and consumption in Switzerland	Switzerland	ZHAW
12.00-12.25	John Baldwin	UK Update on Biomethane as a Truck Fuel	UK	cng services
12.25-12.50	Jonas Ammenberg	Swedish Biomethane Roadmap	Sweden	Linköping University
Break				
14.00-14.25	Stefan Bauer	Geo-Methanation: The Underground Sun Conversion project	Austria	RAG
14.25-14.50	Alexander Krajete	Methanogenesis Beyond Power to Gas, New Applications	Austria	Krajete
14.50-15.15	Simon Rittmann	Biomethane: Research and Development	Austria	Universität Wien
15.15-15.40	Veronika Dornburg	Agricultural RNG projects in the US – experiences under the LCFS and RFS	USA	Sevana Bioenergy

PRACTICAL INFORMATION

The workshop will take place from April 15th from 9.00 to 16.00 CEST and is free of charge.

You can register informally at the following email address: register.biomethane@boku.ac.at.

If you have any questions, you can contact the organiser Dr Günther Bochmann at biomethane@boku.ac.at. Dr. Günther Bochmann, University of Natural Resources and Life Sciences Vienna, Department IFA Tulln, Institute for Environmental Biotechnology