

Highlights of Bioenergy Research 2020

January 24th, 2020, Messe Congress Graz, Austria

Abstract

International Energy Agency - Task 37 Energy from Biogas

Günther Bochmann

Universität für Bodenkultur Wien

IFA-Tulln, Institut für Umweltbiotechnologie

Task 37 of the International Energy Agency Bioenergy deals with the topic of anaerobic digestion and the implementation of this technology in different environments. Anaerobic digestion or biogas is mentioned regularly as a multi-talent. Treating and degrading organic residues like manure or organic residues from households, producing the renewable energy vector biogas and last but not least providing fertiliser including nutrients, organic matter and microbiology. Furthermore, biogas can be upgraded to biomethane and used as biofuel or fed into the gas grid. Anaerobic digestion is furthermore regularly mentioned as one future technology to combine the fluctuating production of renewable energy like solar and wind. Electricity will be used by electrolyzers to produce hydrogen which will be used in another step by methanogenic archaea to reduce carbon dioxide to methane.

Another issue is the integration of anaerobic digestion in different industries and agriculture. An intelligent implementation in existing systems helps to increase the sustainable and eventually economical process integration. But the implementation and application vary from country to country. Several countries support the utilisation of biogas by feeding-in tariffs for electricity injection or support the application of biogas based technologies. The presentation gives an overview on latest developments in the field of anaerobic digestion and will give examples of supporting biogas application in different countries.

More information about the event, photos and presentation slides are available for download:
<https://nachhaltigwirtschaften.at/en/iea/events/2020/20200124-highlights-bioenergy-research.php>