

International Round Table: From methane to proteins

Background

Methane is the second most important man-made greenhouse gas after carbon dioxide. The increase of methane emissions and its impact on the Earth and the global climate require measures to reduce emissions of methane into the atmosphere and to harness and use methane in innovative ways. A circular economy with the longest possible use of products and raw materials is the chance not only to relieve the environment and nature, but also to contribute to the national climate targets.

Against this background, alternative protein production from methane could contribute to developing a circular economy and reducing methane emissions by providing an environmentally friendly food source and promoting the decarbonization of the economy. How this can be implemented in concrete terms is to be examined in more detail within a Round Table of WTZ e.V.

Objectives and contents

The event aims to contribute to the development of a circular economy that avoids waste and enables new recyclables. It shall present the state of development of protein production from methane as well as ongoing scientific-technical research or projects. This could be accomplished by an international exchange to enable a common view on this global topic. The associated scientific and technical challenges are to be outlined and the need for further research identified. In addition, the Round Table should discuss how to optimize the processes in order to be able to scale them up in the future.

WTZ e.V.

The Association for the promotion of scientific-technical cooperation in the raw materials sector (Verein zur Förderung der wissenschaftlich-technischen Zusammenarbeit im Rohstoffsektor e.V. – WTZ e.V.) is a supporting association for various initiatives of international cooperation between science and industry in the energy and raw materials sector. It cooperates with various scientific institutions on a national and international level.

In the current transformation regarding climate change, energy policy and the circular economy it is of central importance to efficiently transfer findings from science to real economic and energy production activities. Therefore, WTZ e.V. pursues the goal of connecting international stakeholders in science and industry in order to share findings, initiate cooperative partnerships and thus jointly move closer to a climate-neutral and sustainable energy and raw materials economy.

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Online event via Zoom

February 23, 2023, 09:30 – 11:00 a.m. (CET)

Welcome & Moderation

Prof. Dr. Hartmut Krause, Chairman of the Board, WTZ e.V.

Introductory presentation: Scientific study on protein production from methane

Dorian Leger, Managing Director and Milena Ivanisevic, Scientific Project Manager,
Connectomix Bio

Presentation of activities in the field of protein production from methane by String Bio

Dr. Ezhil Subbian, CEO & Co-founder, String Bio

Photovoltaic-driven microbial protein production

Dr. Elad Noor, Staff Scientist and Samuel Lovat, Lab Technician, Weizmann Institute of Science

Moderated Discussion