

Prof. Dr. Matthias Franke

Title: Prof. Dr.-Ing.

Affiliation: Fraunhofer Institute for Environmental, Safety and Energy Technologie

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Speaker Biography:

Prof. Dr.-Ing Matthias Franke, Director of Fraunhofer Institute for Environmental, Safety and Energy Technology in Sulzbach-Rosenberg, Germany.

- Appointment as member of the bioeconomy expert council of the federal state of bavaria (since January 2024)
- Appointment as member of the national advisory group on chemical recycling (since January 2023)
- Member of the program committee of the German Scientific Society for Sustainable Energy Carriers, Mobility and Carbon Cycles (since December 2023)
- Member of the Board of the Fraunhofer Cluster of Excellence Circular Plastics Economy CCPE (since January 2021)
- Member of the Circular Economy Coalition for Europe e.V. (since 2016)
- Member of the German Association on Waste Management (since 2010)
- Lecturer at the Technical University of Munich
- International Study Course on Waste Management (since 2009)
- Secured 52 research grants from industry and public sources with a total value of > € 50 M.
- >70 publications incl. 10 papers in international peer-reviewed journals
- Four patents

Statement:

Circular Economy and Carbon Management are important cornerstones for a sustainable energy- and raw materials supply.

Presentation Title:

Circular Economy and Carbon Management – a Building Block for the Energy- and Raw Material Transition

Abstract:

The transition from linear towards a circular economy including circular carbon management can help to decouple economic growth from resource consumption and limit climate change. This contribution highlights the links between circular economy and carbon management and presents technical solutions for increasing the circularity of raw materials and providing sustainable energy sources. The presentation will show what contributions waste, biomass and CO₂ can make to closing material cycles and providing sustainable energy carriers. The challenges and opportunities of the circular transformation for Kuwait are shown exemplarily.