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Industriedialog
Forschung

De-Fossilization of Industry and Mobility: How can it work?



Thursday 21 September 2023, 19:00 CET

Graz University of Technology, Lecture Room i1 (Hybrid)
Inffeldgasse 18, 8010 Graz

Free admission
Registration necessary –
please follow alumni.tugraz.at/termine



Sustainable Energy Innovation Systems for Climate Neutrality

The European Union (EU) is seeking to transition to an economy with net-zero greenhouse gas (GHG) emissions by 2050. Energy-intensive industries, such as steel industry, are a crucial piece of the puzzle, as is the mobility sector.

Energy-intensive industries currently account for half of the energy consumption of the entire EU industry and, due to its energy-intensive production processes, are responsible for 14 per cent of the total greenhouse gas (GHG) emissions in the EU. At the same time, EIs employ around 7.8 million people and provide a value-added of EUR 549 billion (4.55% of the EU total).

Transport is responsible for about a quarter of the EU's total greenhouse gas (GHG) emissions, and causes air pollution, noise pollution and habitat fragmentation. More concretely, it is the only major economic sector in Europe where GHGs have increased since 1990 and is also the largest contributor to nitrogen oxides emissions, which harm health and the environment. Similarly, road transport is one of the main sources of environmental noise pollution in Europe. If Europe aims to become climate-neutral by 2050, this cannot be achieved without a sustainable mobility system, based on cleaner and more active transport modes, cleaner fuels and, where possible, reducing the need for mobility.

PROGRAMM

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WELCOME

Helmut EICHLSEDER Univ.-Prof. Dipl.-Ing. Dr.techn.,
Head of Field of Expertise "Mobility & Production" and Head of the Institute of
Thermodynamics and Sustainable Propulsion Systems, TU Graz

INVITED LECTURE

De-Fossilization of Industry and Mobility: How can it work?

Georg BRASSEUR Em.Univ.-Prof. Dipl.-Ing. Dr.techn.,
President of the Division of Mathematics and Natural Sciences of the Austrian Academy
of Sciences 2013-2022 and Professor emeritus of the Institute of Electrical Measurement
and Sensor Systems, TU Graz

RESPONSES

Walter BERGER Dipl.-Ing. Dr.,
Managing Director, voestalpine Research Services Donawitz

Jürgen RECHBERGER Dipl.-Ing.,
Vice President and Business Field Leader of Hydrogen & Fuel Cell, AVL GmbH

DISCUSSION

MODERATION

Gerhard MURER Dipl.-Ing.,
Speaker of TU Graz Forum Technology and Society

Followed by a BUFFET

„Industriedialog Forschung“

The „Industriedialog Forschung“ presents current topics from the Fields of Expertise, Competence Centres and CD Labs of TU Graz. The series of events provides the opportunity to discuss the latest findings and developments in the context of the corresponding industrial research activities. The target audience includes TU Graz researchers and alumni, the relevant industry and the interested public.

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