



DAY 1 - MEETING AGENDA

02 DECEMBER 2025

FOCUS ON BIOMASS VALORIZATION

08:00 **Registration and
Coffee**

09:00 **Opening Session:
Welcoming and
chair by DWIH
representative**

João Carlos Cordeiro (IPT)
Klaus Raffelt (KIT)
Luciana Vieira (Fraunhofer IGB)

10:00 **Coffee Break**

10:20 **Session 1: New
valorization
pathways of
abundant
biogenic raw
materials**

Caroline Piccoli (Uni Hohenheim): The Hohenheim on-farm biorefinery: chemicals for polymers, carbon materials, proteins for feed and fertilizer from biomass

Rita Rodrigues (USP): Use of the hemicellulosic, cellulosic, and lignin fractions for the production of value-added products

Alexandre Martins (Fraunhofer IVV): Brazilian Potential Biogenic Materials and Concepts for simultaneous Energy-Food production

Alberto Wisniewski (UFS): Powerful biomasses from Sergipe to thermochemical bio-products production and their applications

Susan Grace Karp (UFPR): Current developments in Biomass Pretreatment, Saccharification and Pyrolysis

12:00 **Laboratory tour
IPT**

13:00 **Lunch**

14:00 **Session 2: New approaches for thermochemical conversion and upgrading of wastes and residues**

Ursel Hornung (KIT): Hydrothermal Liquefaction (HTL) of wet biomass

Vittor Rodrigues Santos Alves (IPT): Advances in Hot Gas Processing and Conditioning of Synthesis Gas

Gabriel de Freitas Batista (Uni Hohenheim): Innovative valorization strategies for hydrothermal liquefaction solid residues: Exploring agricultural use and carbon capture potential

Layssa Aline Okamura (SENAI Biomass): Technological Routes for Biomass Valorization: Towards a Sustainable Bioeconomy

Fabian Stenzel (Fraunhofer UMSICHT): Utilizing waste biomass as petrochemical feedstock: new developments in conversion technologies and novel approaches to downstream processing

Andre Bello or Lilian Canabarro (Petrobras): Co-refining fossil and renewable raw materials

Ecrin Ekici (KIT): Hydrotreating of lignocellulosic pyrolysis oil as an additive for marine fuels.

16:20 **Networking
Coffee Break**

17:00 **End of day 1**

DAY 2 - MEETING AGENDA

03 DECEMBER 2025

FOCUS ON BIOMASS VALORIZATION

08:00 **Registration and
Coffee**

09:00 **Session 3: Part I
Synthetic fuels
and chemicals
from CO₂, syngas
and alcohols**

Ferdinand Vogelgsang (Fraunhofer IGB): Fuel synthesis via alcoholic intermediates obtained from industrial CO₂ sources
Liane Marcia Rossi (RCGI / USP): TBD
Ricardo Sorares (University of Uberlandia): New approaches in Fischer-Tropsch-based process pathways
Leandro Novaes (FIRJAN SENAI): Low-Carbon Technologies: Transforming CO₂ and Renewables into Advanced Fuels

10:20 **Coffee Break**

10:40 **Session 3: Part II -
Synthetic fuels
and chemicals
from CO₂, syngas
and alcohols**

Georg Eckel (DLR): Leveraging digital tools to assess, qualify and optimize new sustainable aviation fuels
Manuel Glaser (KIT): Production of Renewable Fuels - Actual Technology Development
Katja Haas-Santo (KIT): Exploring the offgrid production of renewable PtX-products
Giovani Boaventura Bacarin (Cocal): Regional Bioenergy Integration through Biodigestion of Agroindustrial and Alternative Residues: The Cocal Sugarcane Biorefinery Experience
Ulrich Arnold (KIT): Renewable olefins as key intermediates for the production of fuels and chemicals

12:00 **Laboratory tour
IPT - Hydrogen
Laboratory**

13:00 Lunch

14:00 Session 4: Renewable energy as driving force for synthesis: advances in electrochemical technologies (CO₂ utilization, biomass upgrade and hydrogen production)

Luciana Vieira (Fraunhofer IGB): Electrochemical cascade technologies for the synthesis of valuable chemicals
Renan Giacomelli (Fraunhofer IPK): Enabling international R&D cooperation between Brazil and Germany for maximizing the valorization of biomasses in an integrated process chain
Raphael Nagao (UNICAMP): CINE: Integrating Science and Technology for Carbon-Neutral Solutions
Antonio Gentil (IPT): Hydrogen lab
Alexandre Mendonça Teixeira (Repsol Sinopec): RSB's Decarbonization Program
Pauline Boeira (Shell): Shell Low Carbon Fuels Initiatives

16:00 Coffee Break

16:20 Session 5: Funding opportunities for collaborations between Brazil and Germany

Anja Lorenz (DWIH)
Prof. Carolina Munhoz (FAPESP): Diretoria de Cooperação Internacional
Luciano Cunha de Sousa (EmbrapII): Coordenadoria de novos programas da EmbrapII
Francine Camelim (DAAD): DAAD individual and project-based funding opportunities
Laura Ferreira (DFG): DFG funding opportunities for research with Brazil and in Germany
Sören Metz (TUM)
Marcio Weichert (UA Ruhr): Oportunidades de pós-graduação e pesquisa na Aliança Universitária do Ruhr ("Postgraduate and research opportunities at the University Alliance Ruhr)

17:40 Closing remarks

18:00 End of day 2

Confirmed Institutions

- Brazilian Industrial Research and Innovation Company (EMBRAPPII)
- COCAL | Ethanol
- Federal University of Paraná (UFPR)
- Federal University of Sergipe (UFS)
- Financier of Studies and Projects (FINEP)
- FIRJAN Senai SESI Parque Tecnológico
- Fraunhofer Institute for Environmental, Safety and Energy Technology (UMSICHT)
- Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB)
- Fraunhofer Institute for Process Engineering and Packaging (IVV)
- Fraunhofer Institute for Production Systems and Design Technology (IPK)
- German Aerospace Center (DLR)
- German Research Foundation (DFG)
- German Academic Exchange Service (DAAD)
- German Centre for Research and Innovation (DWIH)
- Institute for Technological Research (IPT)
- Karlsruhe Institute of Technology (KIT)
- Petrobras
- Repsol Sinopec Brasil
- Research Centre for Greenhouse Gas Innovation (RCGI) / USP
- São Paulo State Research Support Foundation (FAPESP)
- SENAI Biomass
- Shell
- State University of Campinas (UNICAMP)
- University of Hohenheim
- University of São Paulo (USP)

*** The full schedule will be announced shortly**