

e-Workshop

Bioenergy and Sustainable Development

Climate Change Mitigation and Opportunities for Sustainability Co-Benefits

23-24 May 2022



IEA Bioenergy
Technology Collaboration Programme

In collaboration with:



Background

- Modern bioenergy (for power, heating/cooling, transport fuels)
 - Important option in the portfolio to limit global warming (see IPCC, IEA roadmap)
 - Largest source of renewable energy today
 - Option for negative emissions (BECCS, biochar, ...)
 - Significant increase in sustainably sourced biomass still needed - from waste & residues, but also from purpose-grown crops
 - Debate on climate impacts of bioenergy
- UN Sustainable Development Goals (SDGs)
 - valuable framework to guide national and international development
 - also for biomass supply chains (for bioenergy & broader bioeconomy)
- Opportunities!
 - *Risks* related to biomass supply are usually emphasized.
 - There are also *opportunities* for sustainability co-benefits (beyond climate) - in relation to different SDGs
 - => how to create win-win approaches and manage trade-offs?

2 workshop sessions:

→ *Bioenergy & climate change mitigation (23 May, 4.00-6.30 pm CEST)*

→ *Sustainability co-benefits of bioenergy beyond climate (24 May, 1.00-3.30 pm CEST)*

Session 1 - Bioenergy and climate change mitigation

Monday 23 May 2022, 4.00-6.30 pm CEST

Moderators: **Jim Spaeth** (US DoE) & **Paolo Frankl** (IEA)

Speakers:

- **Andy Reisinger** (IPCC Vice-Chair WG III): *IPCC Climate Change 2022 WGIII: Mitigation - Some key findings, and the role of bioenergy*
- **Sabine Fuss** (Mercator Research Institute on Global Commons and Climate Change (MCC)): *Necessity and regulatory options for CO2 withdrawal*
- **Florian Kraxner** (IIASA): *Sustainable boreal forest management - challenges and opportunities for climate change mitigation*
- **Annette Cowie** (NSW Dept of Primary Industries | Agriculture): *Key determinants of the climate effects of bioenergy*