



**IEA Bioenergy**  
*Technology Collaboration Programme*



## e-Workshop

# Bioenergy and Sustainable Development Climate Change Mitigation and Opportunities for Sustainability Co-Benefits

**23-24 May 2022**

Workshop organized by IEA Bioenergy, in collaboration with the Global Bioenergy Partnership (GBEP) and the Biofuture Platform

## INTRODUCTION

Modern bioenergy <sup>1</sup> is the largest source of renewable energy in the world and is expected to grow substantially as one of complimentary pathways to support decarbonization initiatives to limit global warming by 1.5°C. Given these trends, it is expected that there will be a significant increase in sustainably-sourced biomass as bioenergy systems are adopted under national climate change and circular economy policies. While it is likely that much of the additional biomass will be sourced from waste and residue streams, biomass sourced from purpose-grown crops are also expected to increase.

IEA Bioenergy recently published an overview of 37 case studies <sup>2</sup> from 18 nations worldwide to understand how biomass supply chains can support bioenergy production, while simultaneously contributing to sustainable development goals<sup>3</sup>. Beyond directly contributing to the provision of affordable and sustainable energy and climate change mitigation, several of the analyzed cases contributed to sustainable land management, restoration of degraded lands, and improving economic opportunities and resilience in rural areas.

The workshop will contain two parts: The first session (on Monday 23 May) will examine debates surrounding the contribution of bioenergy to climate change mitigation. The second session (on Tuesday 24 May) will consider opportunities for sustainability co-benefits (beyond climate) and ways to create win-win approaches, e.g. to lift socio-economic perspectives in rural areas and improve the way landscapes are managed.

Aim of the workshop:

- Provide practical information and examples to qualify the contributions of bioenergy to climate change mitigation.
- Highlight the opportunities and co-benefits of biomass supply chains (beyond energy provision,) and open the prospects of stimulating such co-benefits and managing trade-offs.

Each session will have keynote presentations, followed by a panel discussion. Interactive tools will be used to gather input from the audience.

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<sup>1</sup> This excludes traditional use of solid biomass in open fires and basic stoves with very low efficiency and high air pollution.

<sup>2</sup> Report available at: <https://www.ieabioenergy.com/blog/publications/biomass-supply-chains-and-their-contribution-to-the-sustainable-development-goals/>

<sup>3</sup> More information about the UN SDGs: <https://www.undp.org/sustainable-development-goals>

## PROGRAMME

### Monday 23 May 2022

16.00 CEST	<b>Session 1: Bioenergy and climate change mitigation</b>
Moderators: Jim Spaeth, US Department of Energy ; Paolo Frankl, International Energy Agency (IEA)	
<i>Presentations:</i>	
<ul style="list-style-type: none"><li>- <b>Andy Reisinger</b>, IPCC Vice-chair WG III: <i>IPCC Climate Change 2022 WG III report (mitigation): some key findings and the role of bioenergy</i></li><li>- <b>Sabine Fuss</b>, Mercator Research Institute on Global Commons and Climate Change (MCC): <i>Necessity and regulatory options for CO2 withdrawal</i></li><li>- <b>Florian Kraxner</b>, IIASA: <i>Sustainable boreal forest management - challenges and opportunities for climate change mitigation</i></li><li>- <b>Annette Cowie</b>, NSW Department of Primary Industries   Agriculture - Australia: <i>Key determinants of the climate effects of bioenergy</i></li></ul>	
<i>Moderated panel discussion</i>	
18.30 CEST	End of session 1 of the workshop

### Tuesday 24 May 2022

13.00 CEST	<b>Session 2: Sustainability co-benefits of bioenergy beyond climate</b>
Moderators: Michela Morese, Global Bioenergy Partnership (GBEP), Maria Murmis, Ministry of Agriculture (Argentina)	
<i>Presentations:</i>	
<ul style="list-style-type: none"><li>- <b>Olivier Dubois</b>, FAO: <i>Linkages between Sustainable Bioenergy and SDGs</i></li><li>- <b>Constance Miller</b>, Global Bioenergy Partnership (GBEP): <i>examples of bioenergy contributing to rural development and land restoration in developing countries</i></li><li>- <b>Bah Saho</b>, Ecowas Centre for Renewable Energy &amp; Energy Efficiency (ECREEE): <i>Co-benefits of Bioenergy in the ECOWAS region (West Africa)</i></li><li>- <b>Eduardo Trigo</b>, Inter-American Institute for Cooperation on Agriculture (IICA): <i>Bioeconomy supporting rural development in Latin America</i></li><li>- <b>Blas Mola-Yudego</b>, University of Eastern Finland: <i>Integration of bioenergy crops in agricultural landscapes to provide ecosystem services</i></li><li>- <b>Bruno Gagnon</b>, Natural Resources Canada &amp; <b>Jean Blair</b>, Dalhousie University: <i>Biomass supply chains and their contributions to the Sustainable Development Goals</i></li></ul>	
<i>Moderated panel discussion</i>	
15.30 CEST	Closure of the workshop

**Participation:**

Participation to the different parts of the workshop is free of charge, but pre-registration is required (separate for each session).

[Registration session 1](#) - Bioenergy and climate change mitigation

[Registration session 2](#) - Sustainability co-benefits of bioenergy beyond climate

**More information:**

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