

Supporting a Sustainable European Bioenergy Trade Strategy

BioTrade2020plus. Introduction & Activities

Inés del Campo - CENER

Workshop on Policy Options for Sustainable Biomass Trade
23rd EUBCE (Vienna), June 3rd , 2015



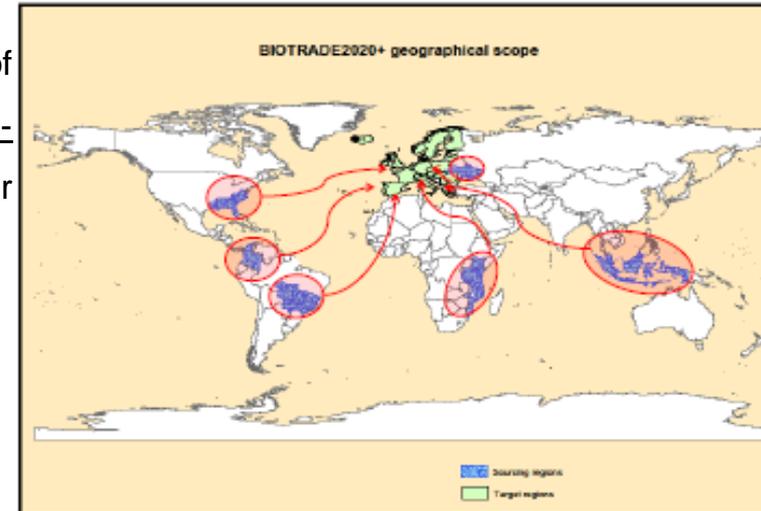
- European **targets set by 2020** in the Climate and Energy package will **require a serious increase in biomass demand for energy purposes** that cannot be achieved by solely sourcing raw materials from the EU-zone
- **Importing** this biomass from outside the EU **may occur at the risk of damaging** ecosystems in other parts of the world, while actually increasing the EU's own carbon footprint.
- The market for **bioenergy and biofuels has seen major increases** in the last few years. According to the latest estimations, biomass had a 64 % share of all renewable energy consumption in the EU-27 in 2012. This biomass was mostly used in the heating and cooling sector (73%), followed by transport (15%) and electricity (12%). On the longer term this increase will be **reinforced by other (non-energy) sectors** that use biomass as renewable feedstock as for example bio-industries
- Among the pre-requisites for achieving a more **competitive bio-based industry** it is necessary to ensure access to **sustainable renewable raw materials at competitive prices** and support market creation and stimulate market demand for bio-based products.
- BioTrade2020plus aims at releasing relevant information for policymakers, industrial stakeholders, NGOs, biomass standardization and certification organizations and other key actors to help defining long-term strategies / policy frameworks **to establish sustainable biomass trade from third countries to the EU for 2020 and beyond.**

Objective:

BioTrade2020plus aims at providing guidelines for the development of a European Bioenergy Trade Strategy that ensures that imported bio-resources are sustainably sourced while avoiding distortion of other (non-energy) markets.

The Project Team:

- CENER –Spain (Project Coordinator)
- Imperial College–United Kingdom
- Stichting DLO –The Netherlands
- Utrecht Univ - The Netherlands
- VITO Belgium
- WIP- Germany
- IINAS –Germany
- Advisory Board



Outputs/Results:

Time line is until and beyond 2020, up to 2030

- Overview of **lignocellulosic biomass and bioenergy carriers availability** in some of the **main sourcing areas** worldwide, including sustainability aspects
- **Analysis** of the main economical and market issues concerning **biomass/bioenergy imports to the EU**
- Integrate previous information in a dedicated and user friendly **interactive GIS tool** intended for use by industrial players, policymakers and other stakeholders.
- Help project promoters and investors to identify the best compromise solutions to include sustainable biomass imports in European bioenergy markets by **Guidelines and Advisory document**
- Efficient and active **engagement and involvement of stakeholders** and long-term reinforcement of networking

BioTrade2020plus aims at achieving the following objectives by means of series of work packages:

- Determine sustainable potentials of lignocellulosic biomass in the main sourcing regions. Definition and application of sustainability criteria and indicators → **Work package 2: Availability and Sustainability**
- Give insights in possible availability and indicative costs of sustainably produced lignocellulosic biomass from some of the main sourcing regions, including interactions with demand from other sectors and other regions → **Work package 3: Market and Demand**
- Provide European industry with transparent information to identify, quantify and mobilize sustainable and resource efficient lignocellulosic biomass resources from the main export regions to the EU by means of a user friendly interactive tool based on GIS and an integrated user interface → **Work package 4: Interactive tool**
- Create a policy strategy to promote the use of bioenergy, ensuring a sustainable and fair supply market from outside the EU to complement the existing demand without halting domestic production → **Work package 5: Strategies to secure sustainable imports of biomass**
- Achieve a strong involvement of stakeholders (policymakers, industry, NGOs,..) by means of working groups, workshops, surveys → **Work package 6: Communication & dissemination**



BioTrade2020plus main **deliverables** are:

- Report on the availability and sustainable potentials for the lignocellulosic biomass resources selected for each case study.
- Report on the updated sustainability criteria to be considered for bioenergy (including social, political and institutional as well as environmental and economic aspects) for 2020 and 2030, drafting potential criteria for bioeconomy applications.
- Interactive GIS based tool
- Database of relevant policies (EU, MS, outside EU) impacting biomass imports to the EU
- Advisory document (green paper) on long-term strategies to include sustainable biomass imports in European bioenergy markets

In order to ensure **efficient involvement** of international experts and stakeholders three stakeholder **working groups** are established:

- **WG1: Biomass importers and end-users**
 - Future demand of lignocellulosic biomass imports into European markets
 - Promising market sectors within the bio-based economy
 - Cost targets of imported biomass
 - Quality requirements of imported biomass
 - Sustainability requirements of imported biomass
- **WG2: Biomass producers and exporters**
 - Sustainable potentials of lignocellulosic biomass in major sourcing regions
 - Main biomass feedstock for export to EU (wood chips, pellets, torrefied biomass and pyrolysis oil)
 - Competitive uses in sourcing regions
 - Potential costs and quality specifications of exported biomass feedstock
 - Land use change and indirect land use change
 - Sustainability concerns in sourcing regions
 - National and international policies affecting biomass trade
- **WG3: Long-term strategies and support frameworks**
 - EU level and EU Member States' policies affecting lignocellulosic biomass trade
 - Sustainability concerns in importing and sourcing regions
 - Strategies and policies in sourcing regions : biomass trade, ensure sustainable , promote domestic use
 - Opportunities and barriers for international biomass trade
 - Key principles for sustainable trade
 - Long-term strategies and support frameworks in relation to biomass trade

CENER – National Renewable Energy Centre, Biomass Department, Spain

Project Coordinator BioTrade2020plus

Contact persons: David Sánchez (dsanchez@cener.com) ; Inés del Campo (idelcampo@cener.com)

Telephone: +34-948-25-28-00/ +34-606-77-44-62

Imperial – Imperial College London, Centre for Environmental Policy, United Kingdom

Stiching DLO – Alterra, Wageningen University and Research, The Netherlands

IINAS – International Institute for Sustainability Analysis and Strategy GmbH, Germany

VITO - Flemish Institute for Technological Research, Belgium

UU - Utrecht University, Faculty of Geosciences, Energy & Resources, Copernicus Institute of Sustainable Development,
The Netherlands

WIP- WIP Renewable Energies, Germany



Project website: www.biotrade2020plus.eu

