

BioTrade2020plus

TOWARDS THE DEVELOPMENT OF A EUROPEAN BIOENERGY TRADE STRATEGY FOR 2020 AND BEYOND

FINAL WORKSHOP

14th June 2016, Brussels

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PROJECT FINANCING BY **Intelligent Energy Europa Program**

CENER – National Renewable Energy Centre, Biomass Department, Spain
Project Coordinator BioTrade2020plus

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

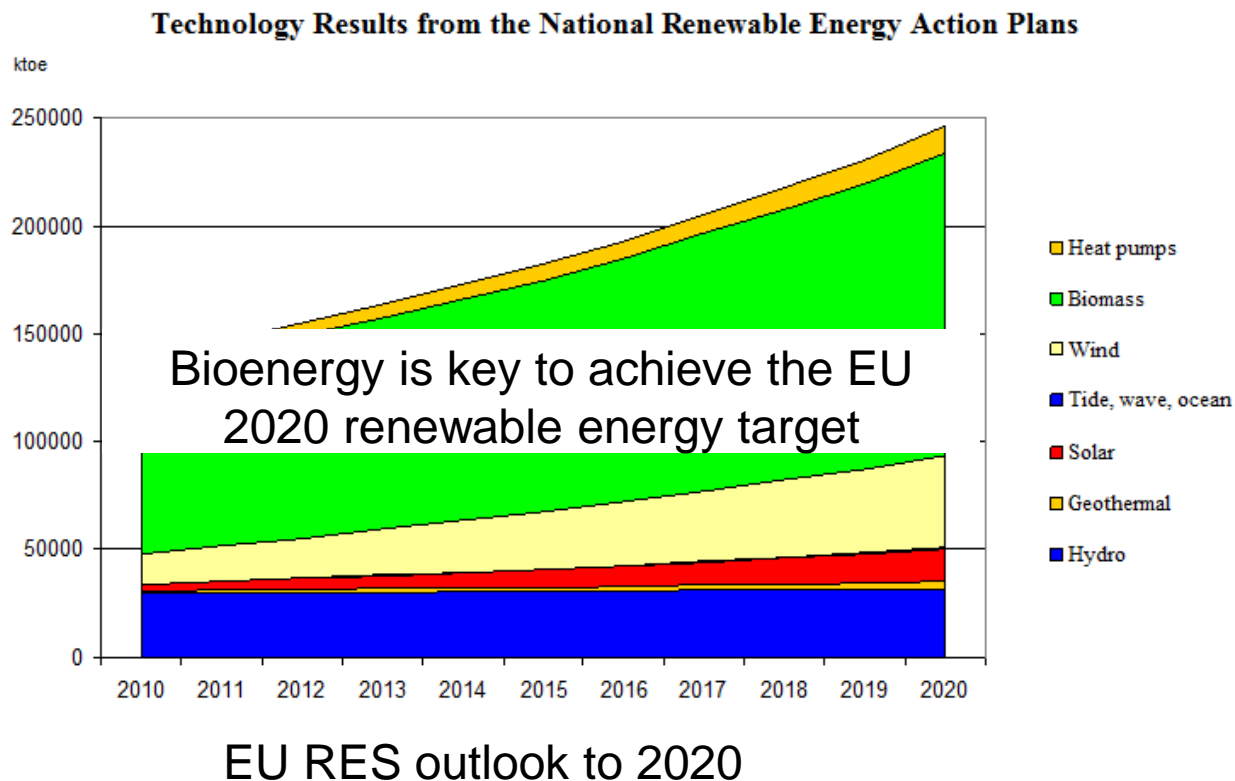


Project website: www.biotrade2020plus.eu

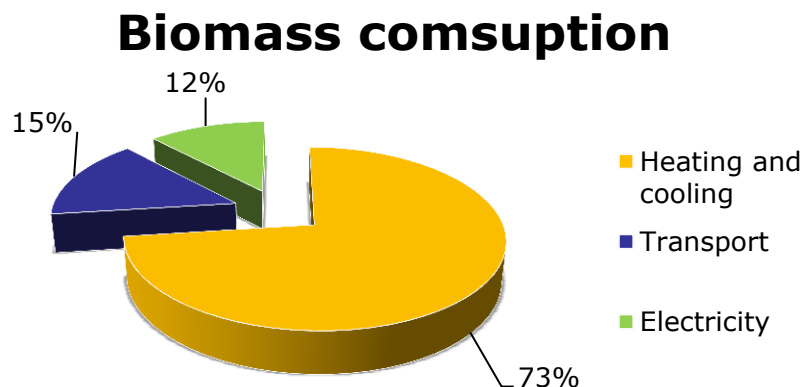


FOCUS ON BIOMASS IMPORT, WHY?

- National Renewable Energy Action Plans (NREAP) shows that biomass is expected to contribute more than half of the 20% renewable objective



- According to Eurostat, biomass had a 65% share of all renewable energy consumption in the EU-28 in 2012.

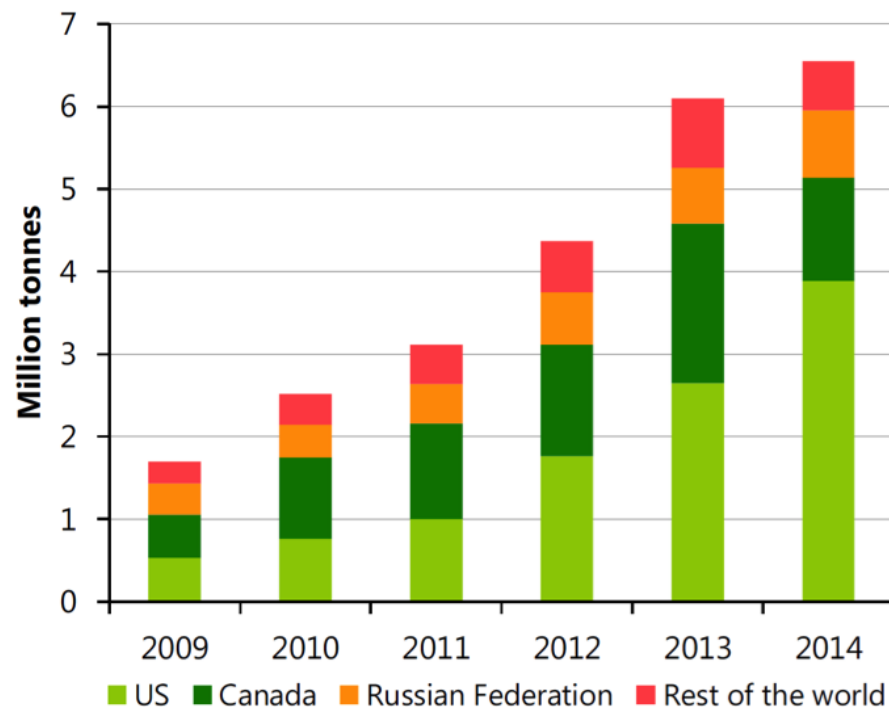


- The demand of biomass not only for bioenergy but for the whole bioeconomy is expected to significantly increase in the EU in the coming years.

FOCUS ON BIOMASS IMPORT, WHY?

- Various Member States will have to rely on imported biomass (especially wood products) from elsewhere.

EU 28 imports of wood pellets, 2009-2014.
Source: UNECE-FAO (2015)



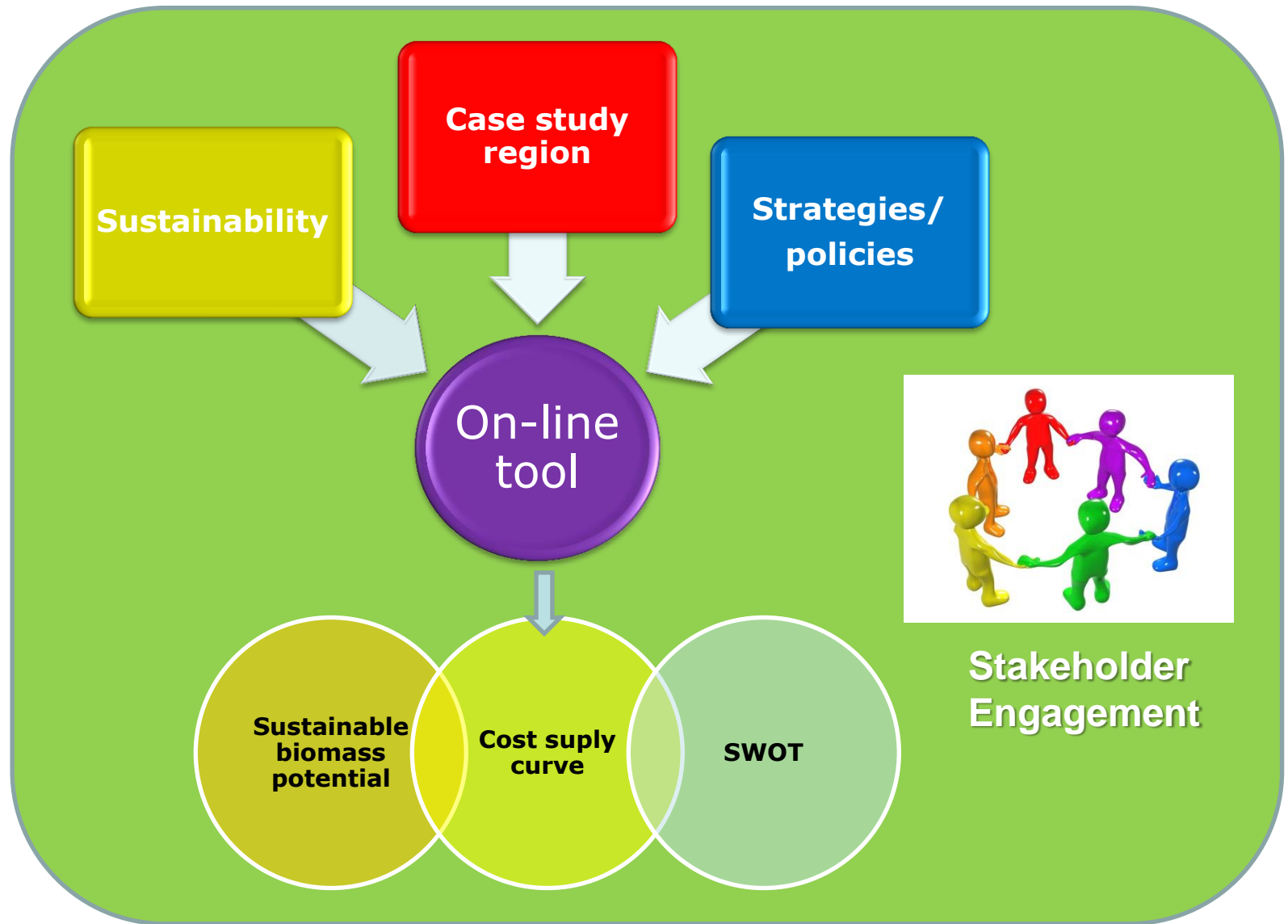
- Importing this biomass from outside the EU may occur at the risk of damaging ecosystems in other parts of the world
- Then, it is clear that sustainable aspects must be considered in biomass trade

Objective:

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

Outputs/Results:

- Overview of the **lignocellulosic biomass and bioenergy carriers availability** in some of the **main sourcing areas** worldwide (US-SE, Brazil, Colombia, Ukraine, Kenya and Indonesia), 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



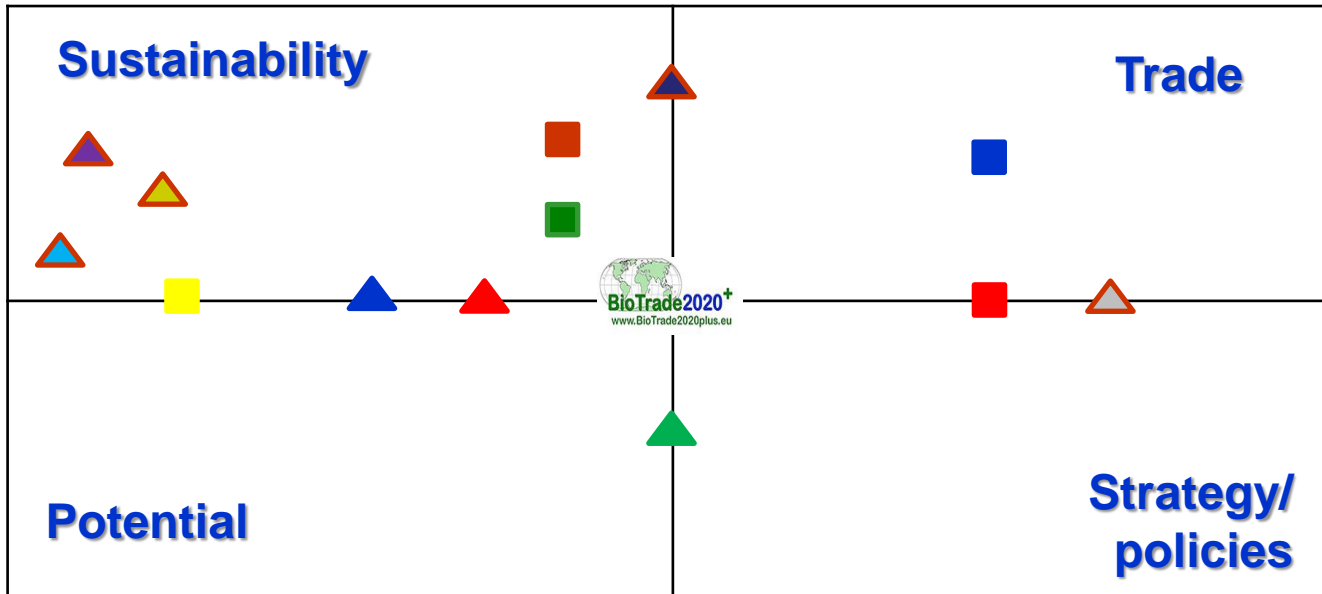
Projects

















- **Biomass Policies.** The main aim of the project is to develop balanced policy frameworks for indigenous EU biomass value chains, in terms of efficient use of resources, abatement of sustainability risks and dealing with competition with non-energy sectors.
- **DIA-CORE** defines scenarios for solid biomass imports from outside the EU-27 and to set up optimal import strategies for the EU.
- **Biomass Futures** has performed a supply and demand analysis to estimate (through cross energy sector modeling) the role different biomass feedstocks can play in meeting the 2020 RED & NREAP targets in the heat, electricity/ CHP and transport markets.
- **BioBench** ('Benchmarking sustainability criteria for bioenergy', a tender for DG ENER BioBench made an overview of sustainability requirements (including end use efficiency and economic sustainability) in Member States' legislation addressing the use of solid and gaseous biomass for electricity, heating and cooling.
- **S2BIOM** focuses on sustainable supply of biomass. A link will be made with the policy database to be developed in S2BIOM.
- Other projects: Biomass Trade Centers, Solid Standards, PellCert ,Bioteam and BASIS

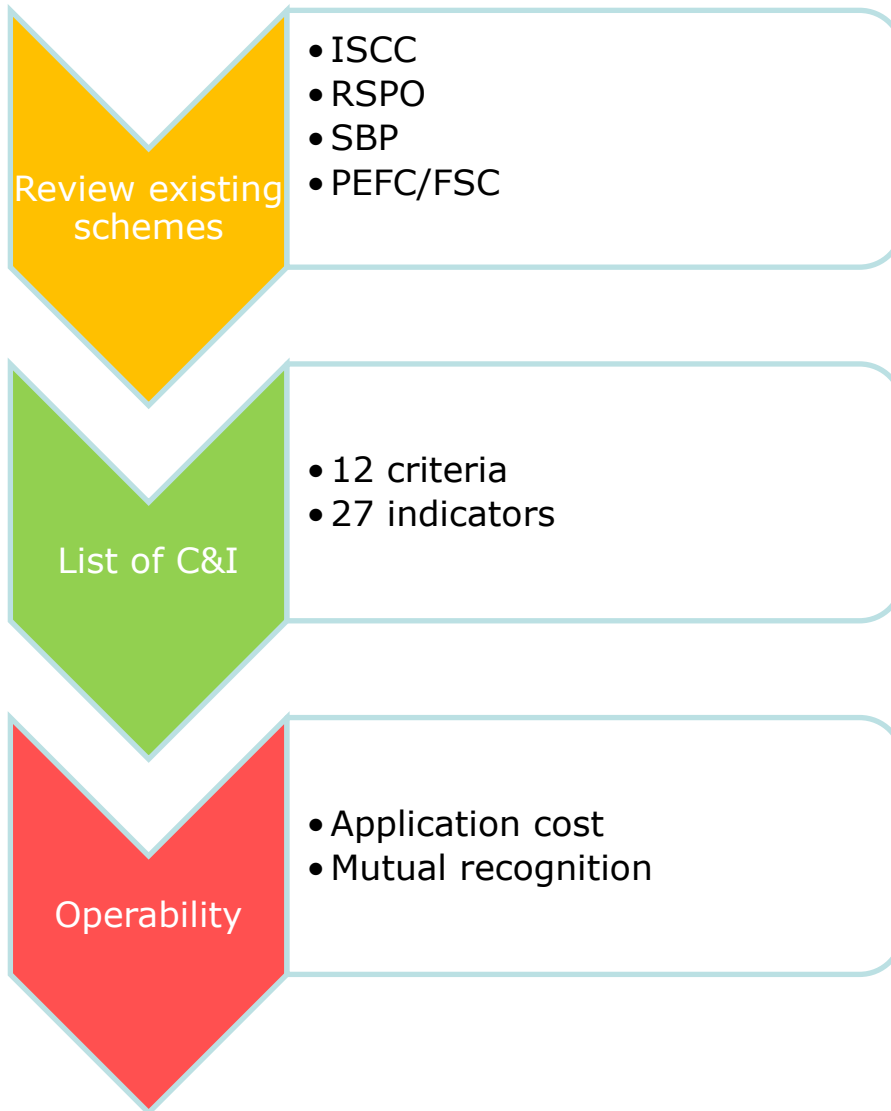
International initiatives as:

- **IEA Bioenergy Task 40.** Sustainable bioenergy production and supply chains have been on the Task 40 agenda for many years,
- **GBEP** mainly through its Activity Group 4 "Towards sustainable modern wood energy development"
- **The development of the ISO Standard for Bioenergy**

Bridges to others projects/ initiatives



- | | | | | |
|---|--|--|---|---|
|  BIOMASS POLICES |  BioRES |  SECURECHAIN |  IEA Task 40 |  Global Bio-Pact |
|  S2BIOM |  BASIS |  BIOENERGY4BUS
INESS |  GBEP |  SIMWOOD |
|  BIOMASS FUTURES |  BIOTEAM | |  ISO standard | |
|  DIACORE | | | | |
| |  European | |  International | |



Sustainability



CASE studies: Summary of sourcing regions and feedstock potential

Case study region

Country	Feedstock				
	Forest residues	Agricultural residues	Forest plantations	Biomass crops	New forest plantations
Brazil		✓		✓	✓
Colombia		✓		✓	
Kenya		✓	✓	✓	
Indonesia		✓			
United States	✓		✓		✓
Ukraine	✓	✓		✓	

CASE STUDIES: One example - Brasil

Scenarios

BAU

High Export

Timeline

2015

2020

2030

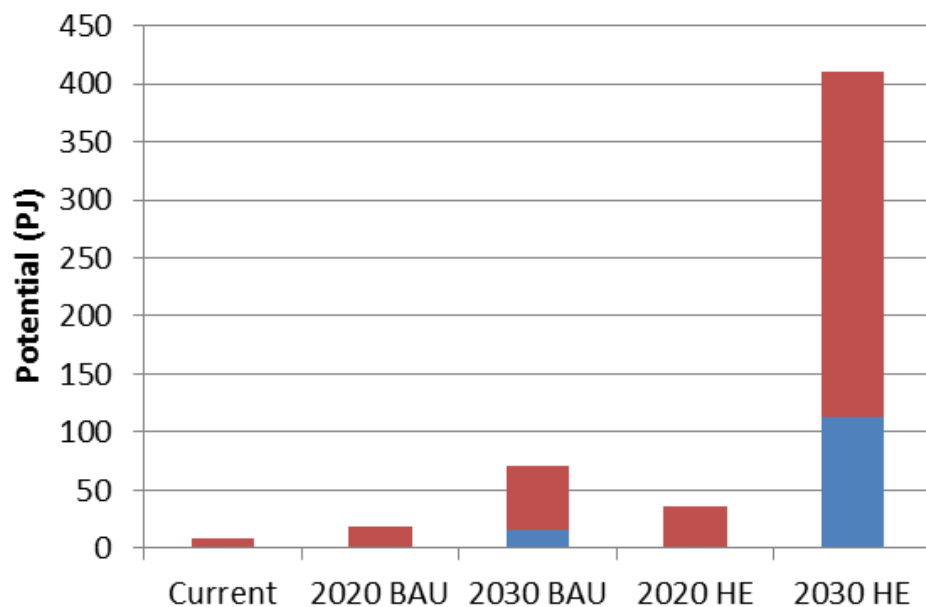
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2020

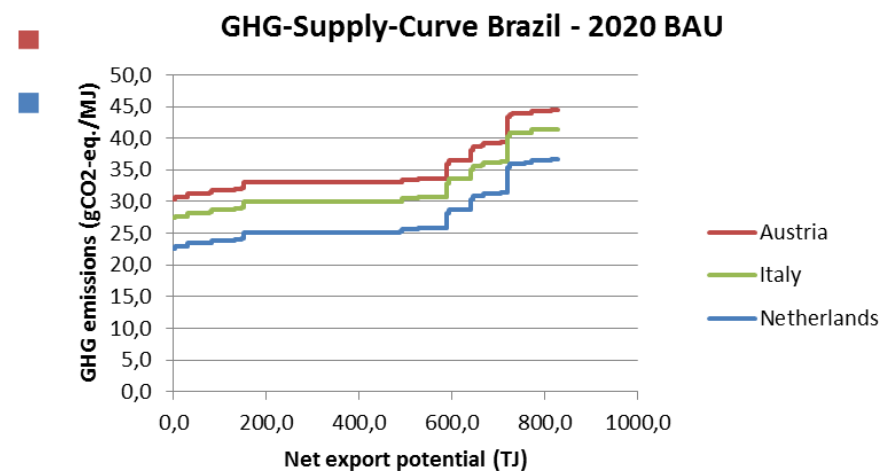
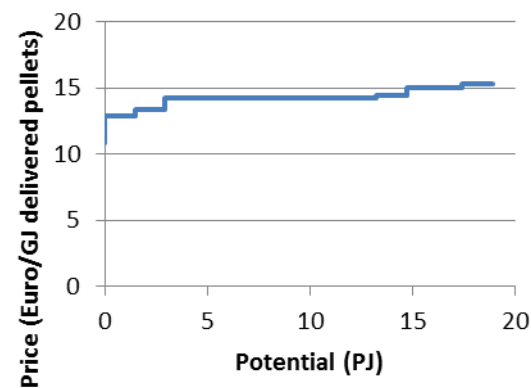
2030

Case study region

Net Export Potential



2020 BAU



- Issues addressed in the project:
 1. **Opportunities and risks** of sustainable biomass trade, perceived by different stakeholders, both for importing and exporting regions.
 2. The current **technical barriers** for market parties when they are involved in trade.
 3. A number of suggested **key principles** to be agreed upon with different stakeholders as a prerequisite to have sustainable biomass trade.
 4. Suggested **policy options** for biomass imports



Sign In

For more information on the BioTrade2020+ project please visit the project website <http://www.BioTrade2020plus.eu>

Objectives:

The main aim of the project is to provide guidelines for the development of a European Bioenergy Trade Strategy for 2020 and beyond. It shall ensure that imported biomass feedstock is sustainably sourced and used in an efficient way, while avoiding distortion of other markets.

This will be accomplished by analysing the potentials and key sustainability risks of current and future lignocellulosic biomass and bioenergy carriers. Focus is on wood chips, pellets, torrefied biomass and pyrolysis oil from current and potential future major sourcing regions of the world (US, Ukraine, Colombia, Brazil, Indonesia and Kenya).

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Sign In

- **Advisory Board Group:**
 - Members from EU, Brazil, Canada, South Africa, Cape Verde and Colombia
 - Different sectors: biomass producers, importers, academia, research, NGOs , etc.
- **Webinars with key stakeholders:**
 - WG1: Biomass importers and end-users
 - WG2: Biomass producers and exporters
 - WG3: Long-term strategies and support frameworks
- **Thematic Workshops:**
 - International workshop: Towards sustainable international biomass trade strategies. Friday 24 October 2014, Brussels (in collaboration with IEA Bioenergy Task 40
 - International workshop: Policy Options for Sustainable Biomass Trade. Wednesday 3 June 2015, Vienna. 23 EUBCE
- **On-line survey**
 1. (April - June 2015): 127 participants from 35 countries
 2. Open until 30 June 2016: rate attractiveness (strengths and weaknesses) of sourcing regions as trade partner for biomass with the EU
 - <http://www.surveygizmo.com/s3/2807987/67e19fea8229>



- Session 1: Overview on Solid Biomass Developments
- Session 2: Potentials of Exporting Countries: Case Studies
- Session 3: Perspectives of Exporting Countries
- Session 4: Results of BioTrade2020plus



Session 1: Overview on Solid Biomass Developments

Moderation: Dominik Rutz, WIP Renewable Energies, Germany

- 09:00-09:20 Welcome and introduction to BioTrade2020plus project
DAVID SANCHEZ, Centro Nacional de Energías Renovables (CENER), Spain
- 09:20-09:40 Trade of solid biomass: The perspective of the European Commission
EC REPRESENTATIVE
- 09:40-10:00 International developments on the production and use of solid biomass
HEINZ KOPETZ, World Bioenergy Association (WBA), Austria
- 10:00-10:20 Biomass potentials: Sustainability issues
ROCIO DIAZ-CHAVEZ, Imperial College, UK
- 10:20-10:40 Strategies and policies in two projects: BioTrade2020+ and Biomass Policies
LUC PELKMANS, Flemish Institute for Technological Research (VITO), Belgium



Session 2: Potentials of Exporting Countries: Case Studies

Moderation: Martin H. Junginger, Utrecht University, The Netherlands

- | | |
|-------------|--|
| 11:00-11:10 | Overview on the BioTrade 2020plus Case Studies
MARTIN H. JUNGINGER, Utrecht University, The Netherlands |
| 11:10-11:20 | United States
GERT-JAN NABUURS, Alterra / Wageningen University and Research, The Netherlands |
| 11:20-11:30 | Colombia
WOLTER ELBERSEN, Alterra / Wageningen University and Research, The Netherlands |
| 11:30-11:40 | Brazil
LOTTE VISSER, Utrecht University, The Netherlands |
| 11:40-11:50 | Ukraine
LOTTE VISSER, Utrecht University, The Netherlands |
| 11:50-12:00 | Kenya
THUY MAI-MOULIN, Utrecht University, The Netherlands |
| 12:00-12:10 | Indonesia
THUY MAI-MOULIN, Utrecht University, The Netherlands |
| 12:10-12:30 | Discussion |
| 12:30-13:30 | Lunch |



Session 3: Perspectives of Exporting Countries

Moderation: Uwe Fritsche, International Institute for Sustainability Analysis and Strategy (IINAS), Germany

13:30-14:45 Panel debate: Opportunities and constraints for biomass export to the European Union

Panelists:

- SUANI COELHO, Brazilian Reference Center on Biomass (CENBIO), Brazil
- HELEN K. WATSON, University of Kwazulu-Natal, South Africa
- BAH SAHO, ECOWAS Regional Centre for Renewable Energy and Energy Efficiency (ECREEE), Cape Verde
- MARIA SOUSA, Brazilian Sugar Cane Industry Association, Brussels Office, Brazil
- PETER-PAUL SCHOUWENBERG, RWE Essent, The Netherlands
- JENNY WALTHER-THOSS, WWF, Germany
- TAPIO RANTA, Lappeeranta University of Technology, Finland

Session 4: Results of BioTrade2020plus

Moderation: Ines del Campo Colmenar, Centro Nacional de Energías Renovables (CENER), Spain

14:45-15:30 Interactive BioTrade2020plus Tool for biomass imports to the EU
GERT-JAN NABUURS, Alterra / Wageningen University and Research, The Netherlands

15:30-15:45 Conclusion and Next Steps
DAVID SANCHEZ, Centro Nacional de Energías Renovables (CENER), Spain

15:45-16:00 End of the workshop



**THANK YOU FOR YOUR ATTENTION
AND READY TO START!!!**



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