

The role of Bioenergy TWG in the BIOEAST Initiative Biljana Kulišić (EIHP, Croatia)

TWG leader, H2020 BIOEASTsUP project



FOR BOOSTING THE REGIONAL BIOECONOMY IN CEEC

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Coordinators of the TWG



Croatian Ministry of Agriculture (MPS)

- Tugomir Majdak, General Secretary (<u>Tugomir.Majdak@mps.hr</u>)
- Andreja Martonja Hitrec, Head of Service for Harmonization with EU Strategies and International Obligations (Andreja.Martonja@mps.hr)
- Doris Komerički, NCP BIOEAST (doris.fejer@mps.hr)
- Role: overall coordination and support

Energy Institute Hrvoje Požar (EIHP)

- Biljana Kulišić, lead expert (<u>bkulisic@eihp.hr</u>)
- Matko Perović, secretary (mperovic@eihp.hr)
- Role: expert support





Time line

- HR has expressed its ambition to lead the TWG in February 2019
 - Ministry of Agriculture (member) + Energy Institute Hrvoje Požar (expertise)
- By 10/2019:
 - 7/11 countries expressed their interest: BG, CZ, EE, HR, HU, LT, LV
 - 9/11 countries send their delegates to the kick-off: CZ, EE, HR, HU, RO, SI, SK, LT, LV
- Kick-off 10/10/2019 Sopron, HU
- Structure, 2 on-line meetings, ToR and action plant draft
- all 11 MS have delegated a member or representative



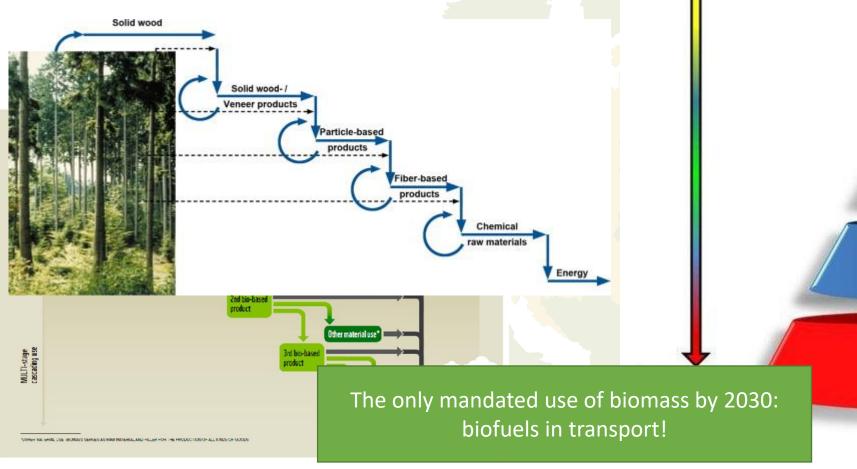


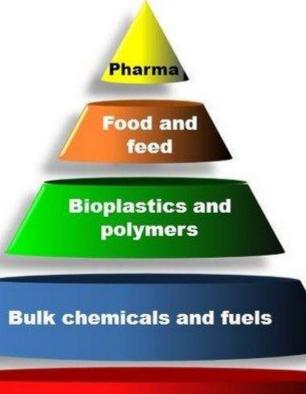


Bioenergy in bioeconomy



• Cascading use of biomass: end of High value



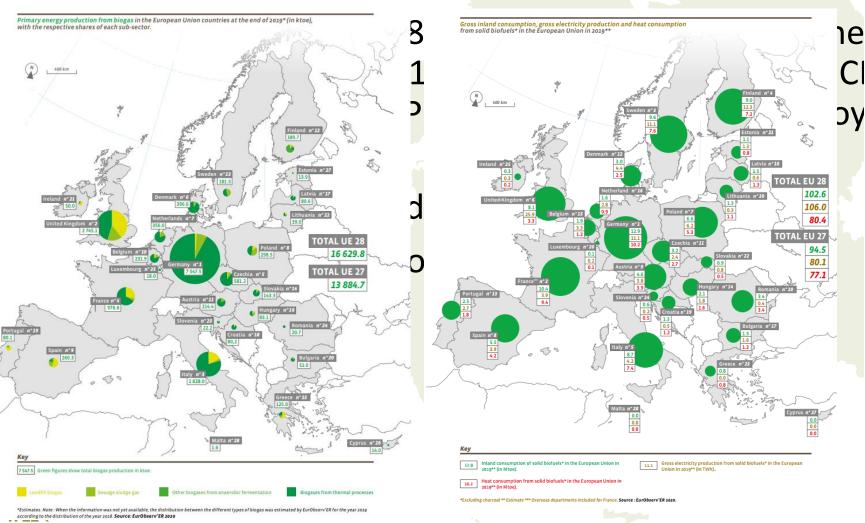


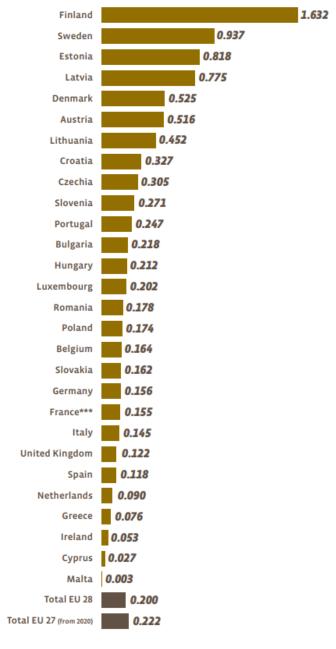
Energy and heat

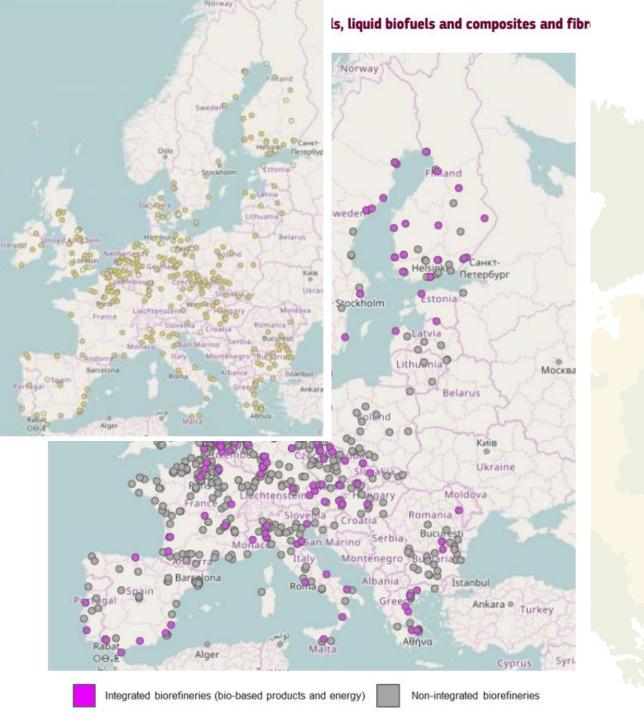
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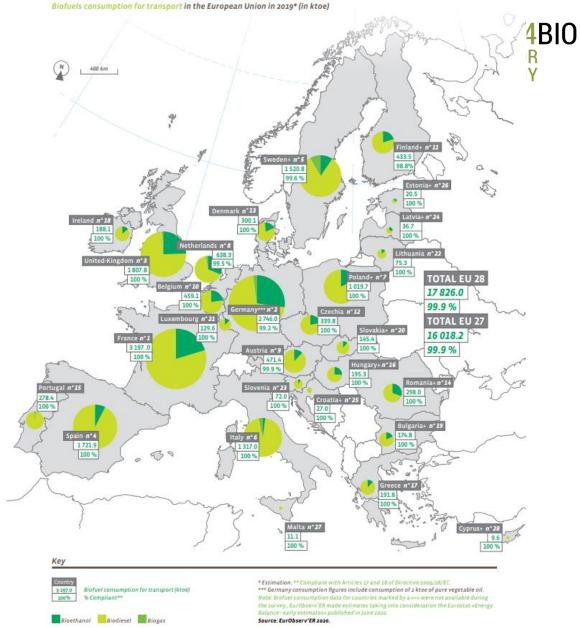


Bioenergy in BIOEAST macro region













Perspective of bioenergy in bioeconomy:



- Bioelectricity is needed to reduce the cost of grid balancing due to the intermittent renewable electricity sources.
- Bioheat with locally available, low value biomass is the least cost option to reduce fossil fuel dependency.
- Biofuels for transport are the at-hand part of the solution to reduce the GHG emissions from transport sector.
- Modern bioenergy is mostly not competitive with the alternatives
- Already existing bioenergy plants provide the most affordable base renewable energy – keep them operating!

(...)

+ Lessons learned...





Lessons learned from biomass use for bioenergy:



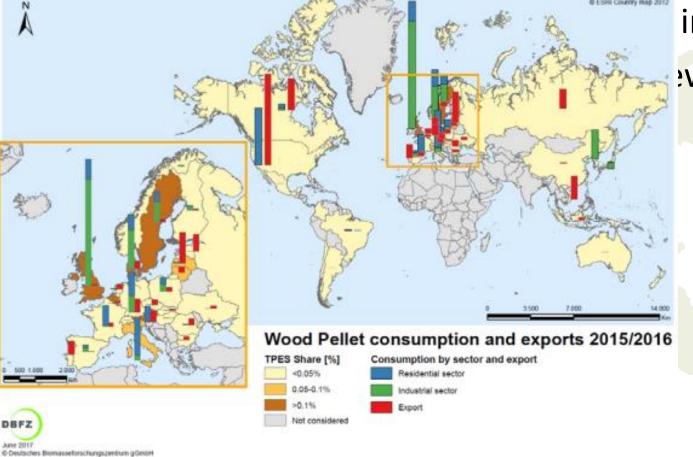
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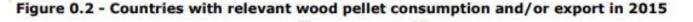
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inable or circular work







Transition pathways of bioenergy within the bioeconomy



- Embed existing bioenergy players into bioeconomy by:
 - producing new value-added materials from bioenergy by-products (waste energy, ash, digestate, CO2, sulphur)
 - create industrial symbiosis (e.g. freshwater pike farming & digestate; food storage/cooling with CHP plants)
- Raise awareness on the local bioheat solutions in agro-industry: short supply chains
- Developing biomass logistic/collection/storage spots: bio-hubs
- Biorefineries for advanced liquid biofuels for transport
- Aligning bioenergy with the EU Green Deal policy areas and initiatives (e.g. Clean Energy, Methane Strategy, defossilisation in agriculture and food sector...)





Terms of reference



Develop bioenergy business models that serve decarbonisation and increase competitiveness of BioEast bioeconomy stakeholders.

- Embed the existing and future bioenergy players into bioeconomy by:
 - finding new value added materials from bioenergy by-products (waste energy, ash, digestate, CO2, sulphur)
 - create industrial symbiosis (e.g. freshwater pike farming & digestate, detergent & ash, CO2 and food preservation...)
- Identify research topics that are distinctive for BioEast macro-region
- Coordinate with Ministries and BioEast Initiative
- Apply for research funds on specific topics to deliver knowledge-based, evidence-based concerted policy on bioenergy within bioeconomy





Thank you for your attention!



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