

# **BIOENERGY** Status Update from Brussels

28.1.2021 Bioenergian Talvipäivä verkkoseminaari

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### Companies



### Associations





### TODAY AND IN 10 YEARS

1

EU GREEN DEAL GAME ON!

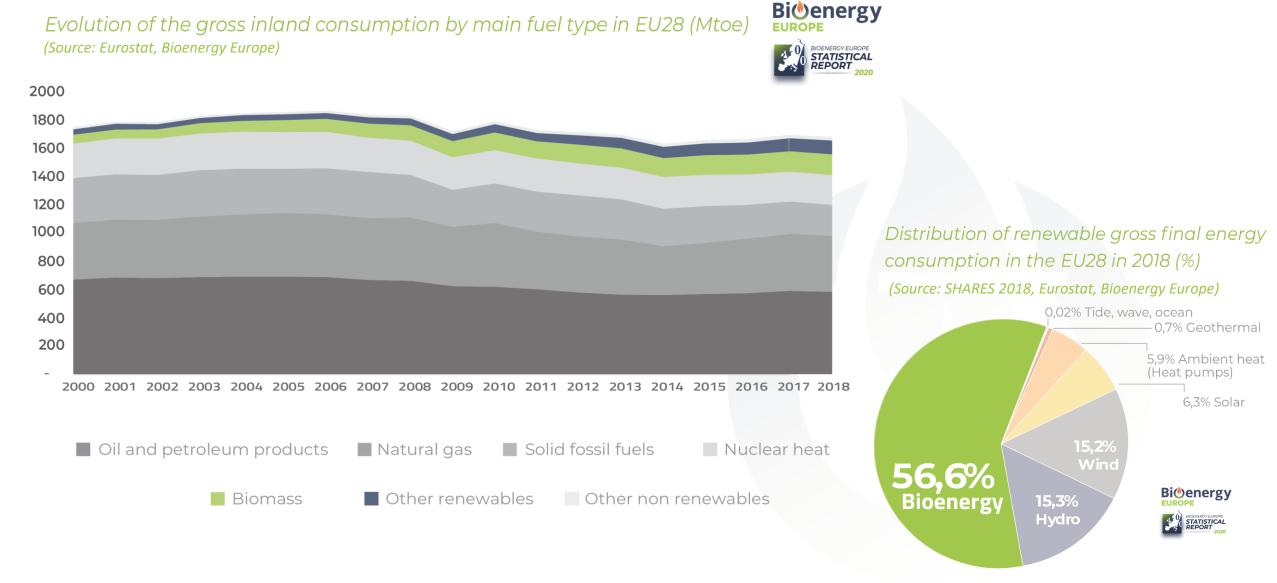
GET HEARD IN A NOISY WORLD

3

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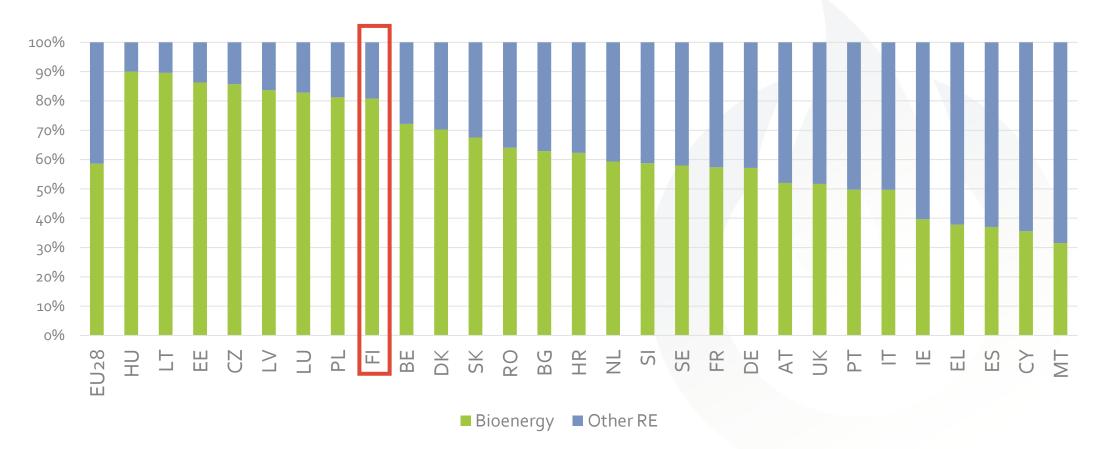
### TODAY AND IN 10 YEARS

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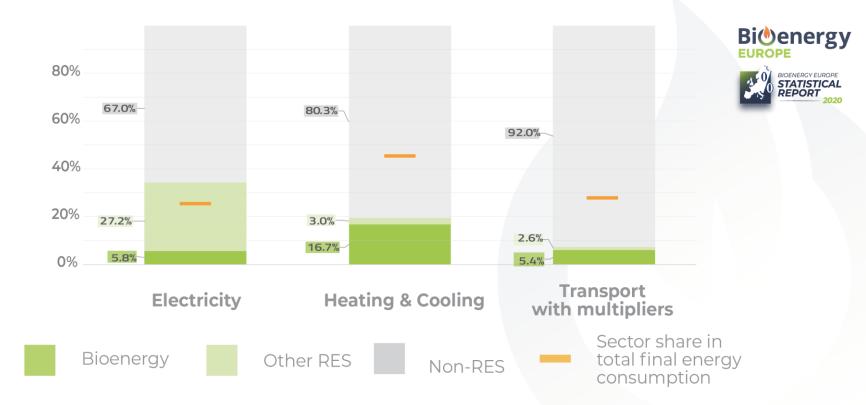
## ESSENTIAL CONTRIBUTION IN ALL MS TO ACHIEVE THE EU CLIMATE AND ENERGY TARGETS



Contribution of biomass to the final renewable energy consumption in 2017 in EU28 Member States (%)

Bie energy

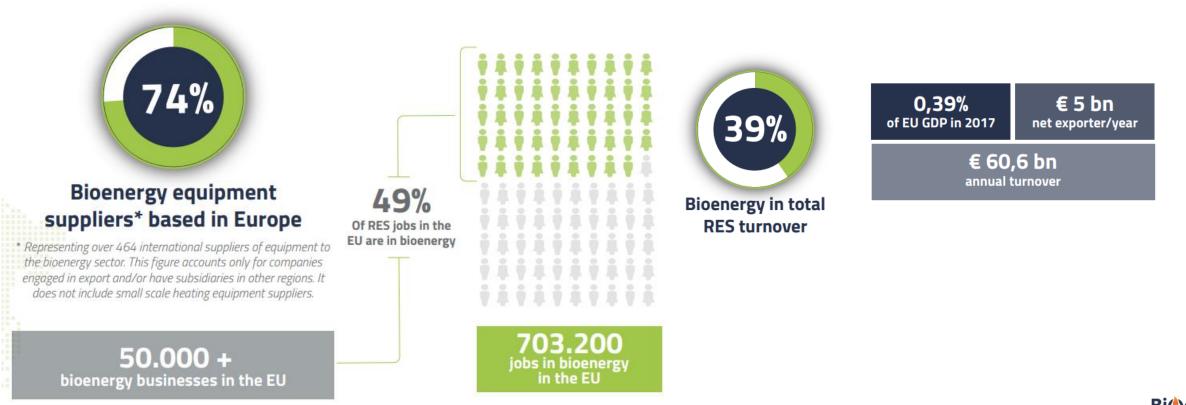
Repartition by energy source for the different final usages in the EU28 in 2018 and their relative importance in the total final energy consumption (%) (Source: SHARES 2018, Eurostat, Bioenergy Europe)



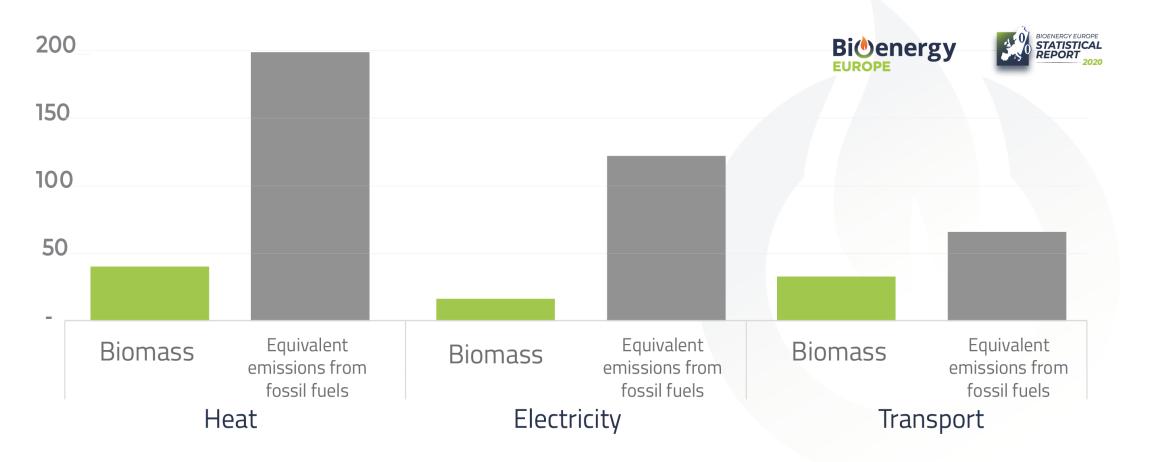
Note: Calculated in accordance to the methodology established in Directive 2009/28/EC and Regulation (EC) No 1099/2008. For the energy source repartition in transport 'Other renewables' represents RES electricity used in transport which also counts towards the RES for electricity (not for the sector share in total final energy consumption). Multipliers included.



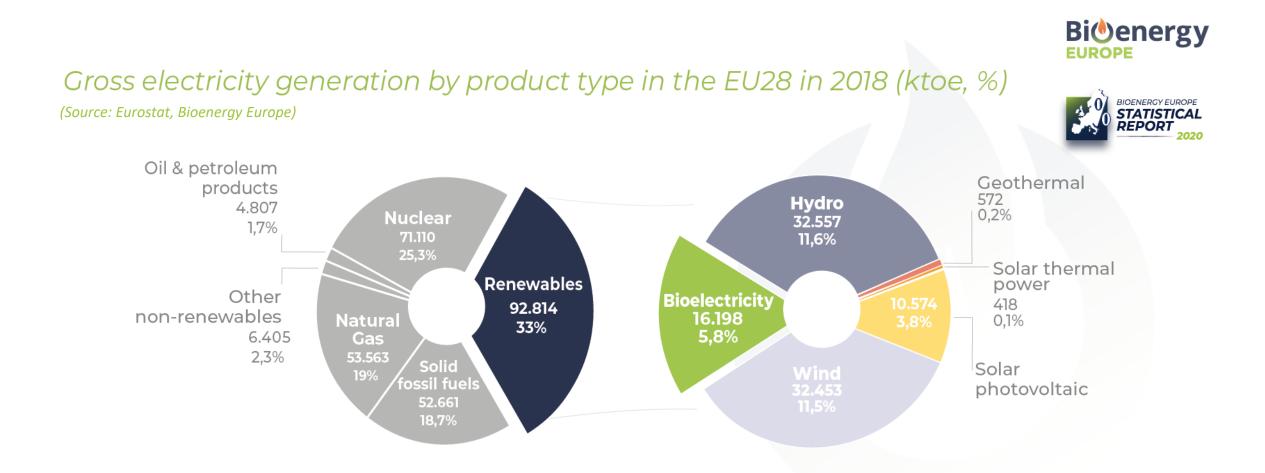
# CONTRIBUTING TO SUSTAINABLE GROWTH AND GREEN JOBS



Bieenergy EUROPE Comparison of the GHG emissions from bioenergy and fossil fuel equivalent in the different sector in EU28 in 2018 (MtCO2eq) (Source: Bioenergy Europe calculations; RED II - biomass default values and fossil fuel comparator).



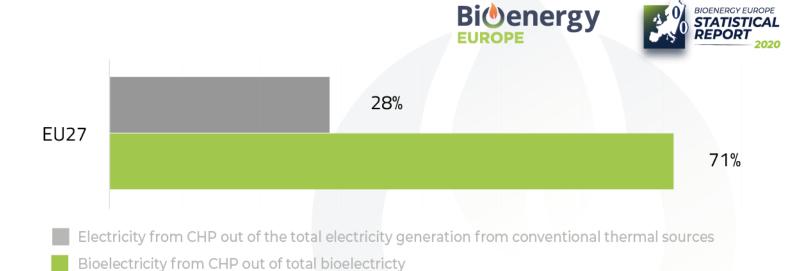






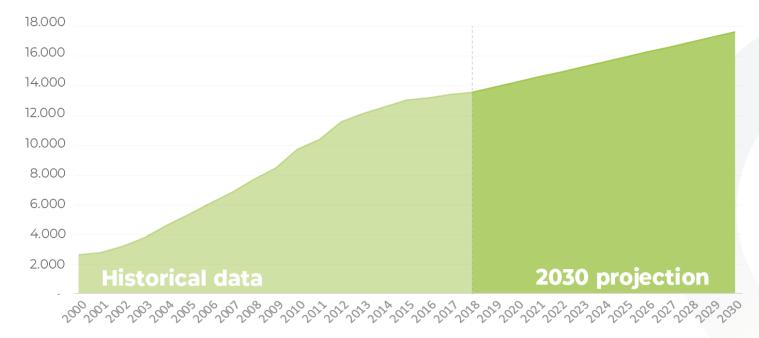
Share of gross electricity generation of conventional thermal power plants produced from CHP and share of bioelectricity produced from CHP in 2018 in EU Member States (%)

(Source: Eurostat, Bioenergy Europe)





#### EU27 projection for bioelectricity for 2030 based on the NECPs\* (ktoe) (Source: Eurostat, NECPs and Bioenergy Europe assumptions)



Bieenergy



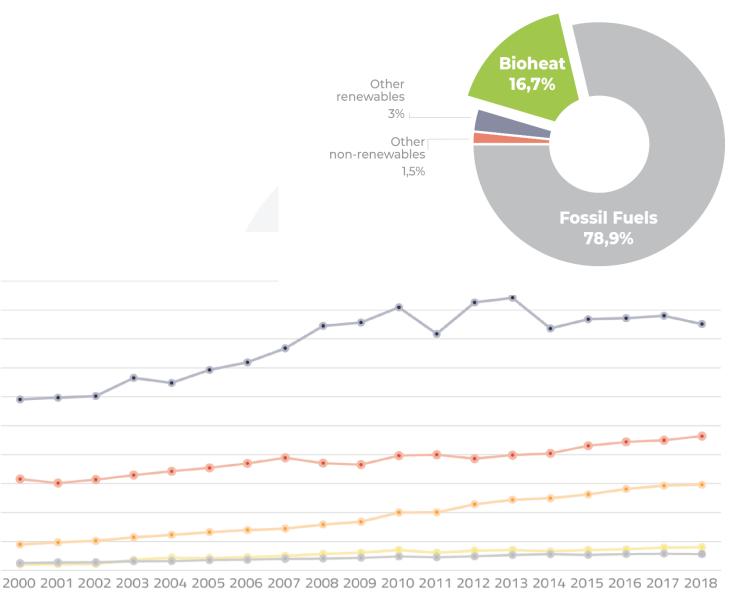
\*Note: for the countries with no data available (NECPs not yet public or no details about bioelectricity), the average growth rate obtained with the data available was applied. A linear trend was applied for the visualization of the evolution to the 2030 objective according to NECPs, but this is not necessarily representative of the implementation plans of the Member States.



## **BIOMASS IN HEATING**

+25% in 2030

Contribution of the different energy sources in heating and cooling in EU28 in 2018\* (in %) (Source: Eurostat, SHARES 2018, Bioenergy Europe's calculation)



Evolution of the final consumption of bioheat by sector in EU28 (in ktoe) (Source: Eurostat, Bioenergy Europe) 50.000

45.000

40.000

35.000

30.000

25.000

20.000

15.000

10.000

5.000

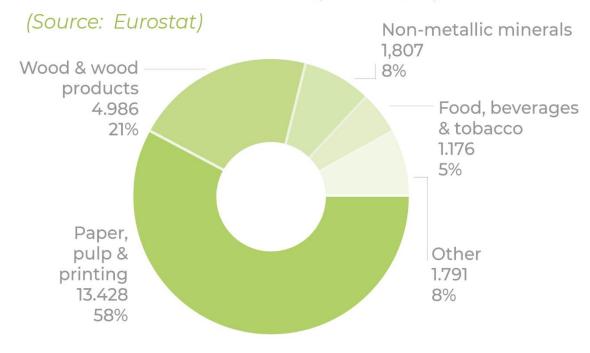
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Residential
Industry
Derived Heat
Commercial & Public Services
Other Sectors

Final energy consumption of bioheat in the different sectors in EU28 in 2018 (in ktoe, %) (Source: Eurostat, Bioenergy Europe)

**Derived Heat** 14.807 17% Commercial & **Public Services** Industry 4.006 23.187 5% 26% **Other Sectors** 2.814 3% Residential 42.581 **49%** 

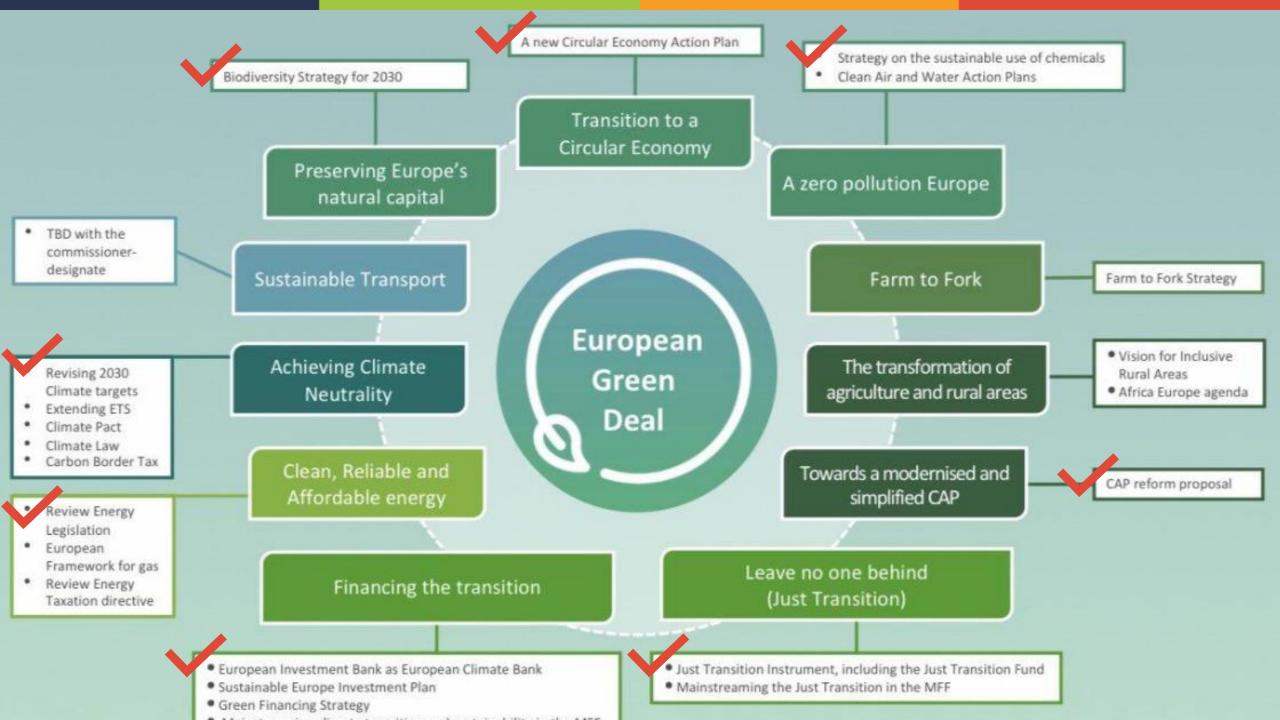
# Share of biomass usage in the different industries in 2018 – EU28 (in ktoe, %)



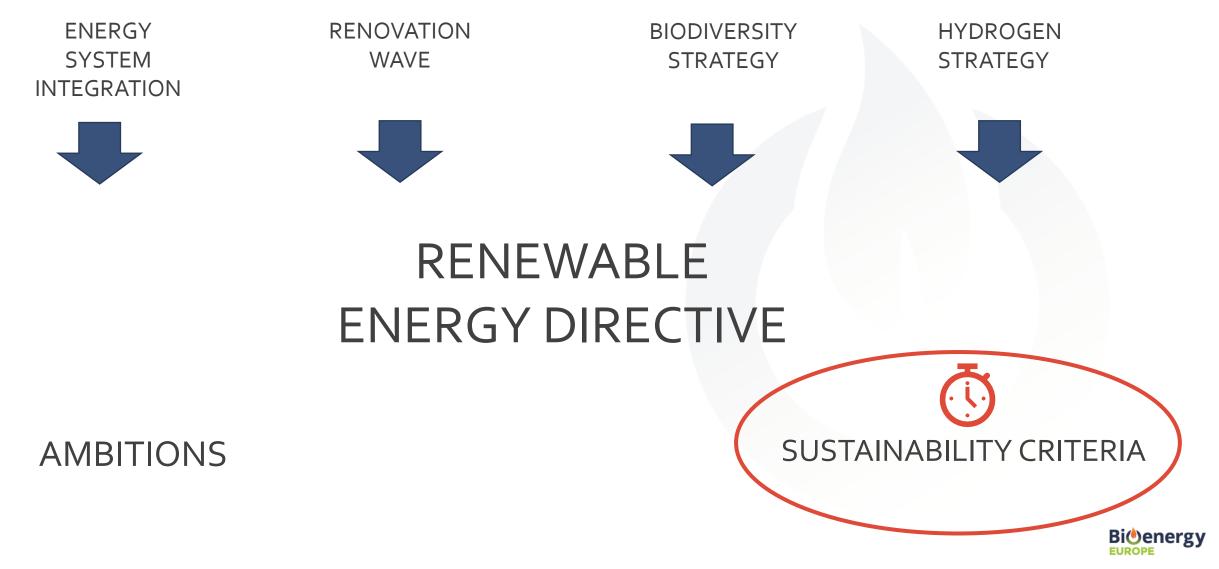


### EU GREEN DEAL GAME ON!

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## 2030 CLIMATE TARGET PLAN



# 2030 CLIMATE TARGET PLAN: BIOENERGY

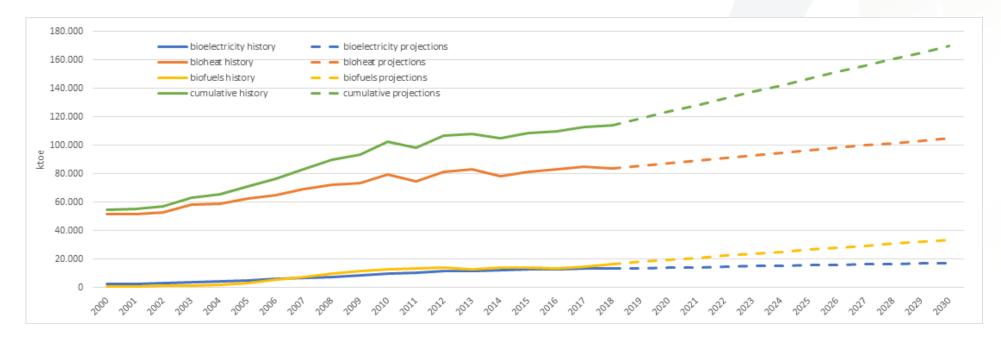
Projected increases in bioenergy use by 2030 are limited compared to today. To ensure the land use sink can continue to strengthen and improve, biomass for energy use in the EU should be produced sustainably, and environmental impacts should be minimised. To limit impact on biodiversity, the use of whole trees and food and feed crops for energy production – produced in the EU or imported – should be minimised. Any unsustainable intensification of forest harvesting for bioenergy purposes should be avoided. Instead, bioenergy production should come from better use of biomass wastes and residues and a sustainable cultivation of energy crops, rather replacing the production of first generation food-crop-based biofuels and be in line with the sustainability criteria of the Renewable Energy Directive. The promotion of sustainable forest management, a strong enforcement of the existing legislation and a quicker implementation of the sustainability criteria in the Renewable Energy Directive can play a key role in this regard alongside the foreseen review and potential revision of the latter Directive.

- 1. Limited Projected increase
- 2. Minimise use of whole trees and food and feed crops
- 3. No unsustainable intensification of forest harvesting for bioenergy purposes
- Better use of waste and residues and sustainable cultivation of energy crops (SRC? Fast growing ligno cellulosic?) + and be in line with sust criteria
- 5. Promotion of SFM, Enforcement of existing legislation, quicker implementation

# IMPACT ASSESSMENT: LIMITED GROWTH FOR BIOENERGY?

# IMPACT ASSESSMENTNECPs150 Mtoe156.16 Mtoe

	2018	2030 (*)	Growth	Growth 2018-
			2006-	2030
			2018	
Heat	84.002	105.053	29%	25%
Electricity	13.371	17.360	123%	30%
Transport	16.803	33.751	213%	101%
Total	114.175	156.163	50%	49%



Bioenergy

## **EU BIODIVERSITY STRATEGY PUBLICATION**

#### WIN – WIN SOLUTIONS FOR ENERGY GENERATION

- 1. Sustainable bioenergy made the list of win-win solutions
- 2. A transformative approach minimise use of whole trees is introduced
- 3. The Annex lists follow up actions on biomass sustainability

Assessment of the EU and global biomass supply and demand and related sustainability	ongoing
Study on the sustainability of the use of forest biomass for energy production	2020
Operational guidance on the new sustainability criteria on forest biomass for	2021

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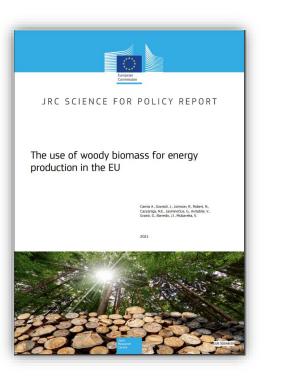
## THE EU BIODIVERSITY STRATEGY IS A NON BINDNG DOCUMENT. YET, LEGISLATIVE INITIATIVES WILL STEM FROM THIS STRATEGY



# JRC STUDY : USE OF WOODY BIOMASS FOR ENERGY PRODUCTION IN THE EU



Swift and robust implementation of REDII sustainability criteria will effectively minimise negative impacts associated with the use of woody biomass for energy. For the implementation to be optimal, forest legislation and guidelines must be fit-for-purpose, properly enforced and monitored.

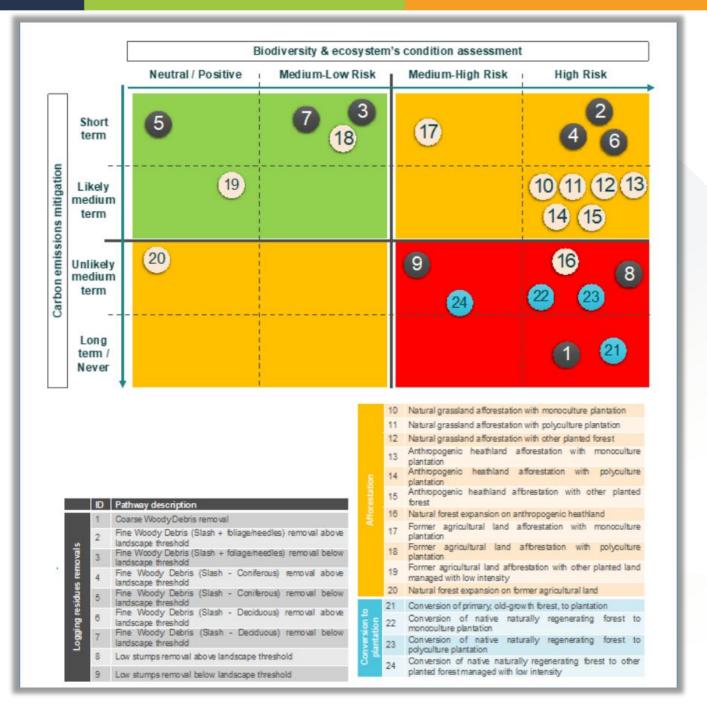




### **RECOMMENDATIONS:**

- ✓ Strengthen the Sustainability Criteria
- ✓ No-Go Areas
- ✓ Lower the exemption threshold
- ✓ Avoid Lose-Lose pathways
- ✓ Make sure imported biomass does not have negative impacts (proposal 2021)
- Holistic sustainability governance of bioeconomy value chains

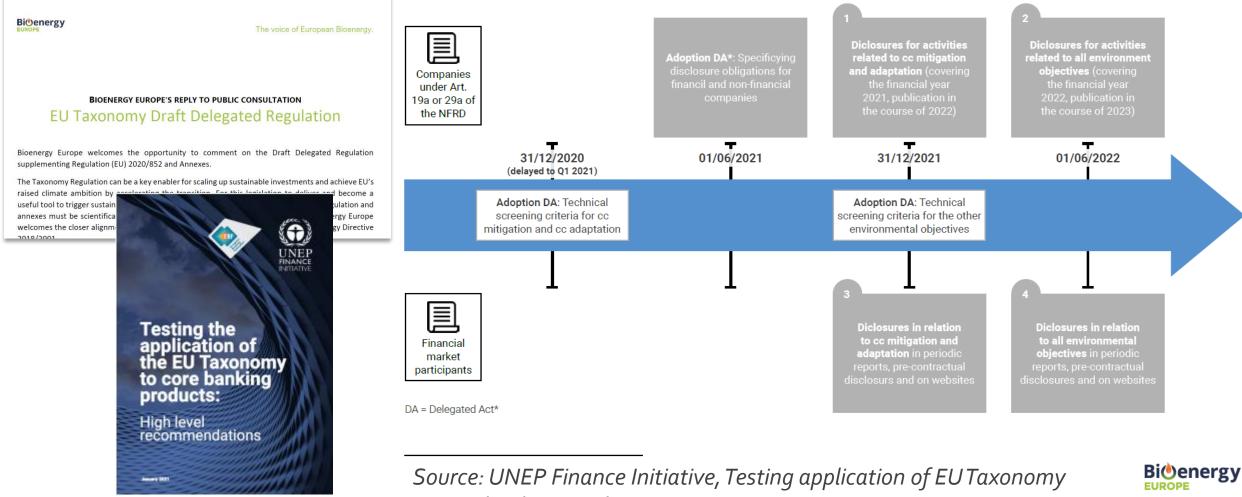




Bie energy

## TAXONOMY REGULATION

Classification system, establishing a list of environmentally sustainable economic activities. The EU taxonomy is an important enabler to scale up sustainable investment and to implement the European Green Deal.



to core banking products

### PRIVATE FINANCE WILL BE KEY TO SCALE UP BIOENERY PROJECTS AND R&D



Taxonomy: Final report of the Technical Expert Group on Sustainable Finance March 200



### **THREATS**:

- Bioenergy as "transitional activity", discriminated against other renewables
- Access to R&D private funding
- Eligibility for maintenance activities
- Requirements on forestry de facto excluding small forest holders

SIMPLIFIED COMPLIANCE AND COHERENCE WITH EXISTING SUSTAINABILITY CRITERIA



## GET HEARD IN A NOISY WORLD

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# 2. It is a question of perspectives

3. Join Forces with other companies and associations



# THANKYOU!

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