

# Bioenergy, a pillar towards higher energy security

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**Bioenergy**  
EUROPE

#bepartofbioenergy

# Bioenergy Europe



Common voice of European bioenergy since 1990



Unites **40+** national associations and **150+** companies



Hosting a pellet network



Quality & Sustainability Certifications



Proud member of WBA



## Our Services:



EU Policy Monitoring & Influence



Market Data



Visibility



Networking



Free & Discounted Events



# Our Team at Bioenergy Europe



# Our Members

\*as of March 2023

Bioenergy  
EUROPE

## Companies



## Associations



## Academia



# Our Working Groups

## Members Only



### Domestic Heating

Next Date: 21<sup>st</sup> March 2023

Promotes biomass in the domestic heating sector and discusses building regulations, air emissions and stove & boilers certifications.



### Pellets

Next Date: 22<sup>nd</sup> March 2023

Discusses common issues and opportunities regarding the development of the European pellet market (residential, commercial, industrial) and proposes actions to overcome current barriers.



### Agro-biomass

Next Date: 30<sup>th</sup> May 2023

Promotes underutilized biomass feedstocks (e.g. residues from agriculture, dedicated perennial lignocellulosic crops) through ad hoc policies.



### Wood Supply

Next Date: 23<sup>rd</sup> May 2023

Provides with active exchanges of data, market trends and news in legislation.



### Competitiveness

Next Date: 28<sup>th</sup> March 2023

Provides updates on key existing and emerging policy topics determining the competitiveness of bioenergy sector within the EU (e.g. carbon tax, state aid)



### Sustainability

Next Date: 7<sup>th</sup> March 2023

Monitors climate and energy legislation impacting the European bioenergy sector and advocates for an efficient EU sustainability policy for biomass for heating and electricity production.



### TF National Advocacy

Next Date: 2023

Provides regular updates for national associations on relevant EU policies and enhances cooperation between EU and national levels.



### Carbon Removal

Next Date: 4<sup>th</sup> April 2023

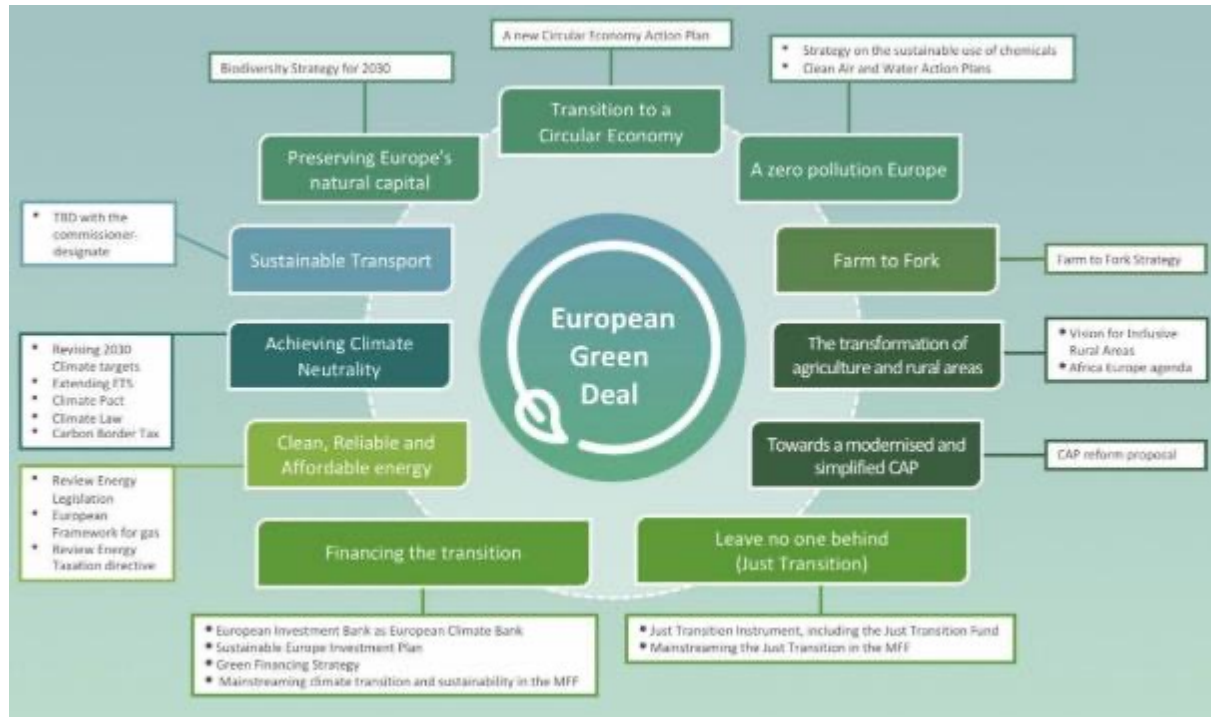
Establishes an interactive forum to explore policy options for the creation of negative emission certificates and incentives within EU energy and climate policies.



# Green Deal – all about climate

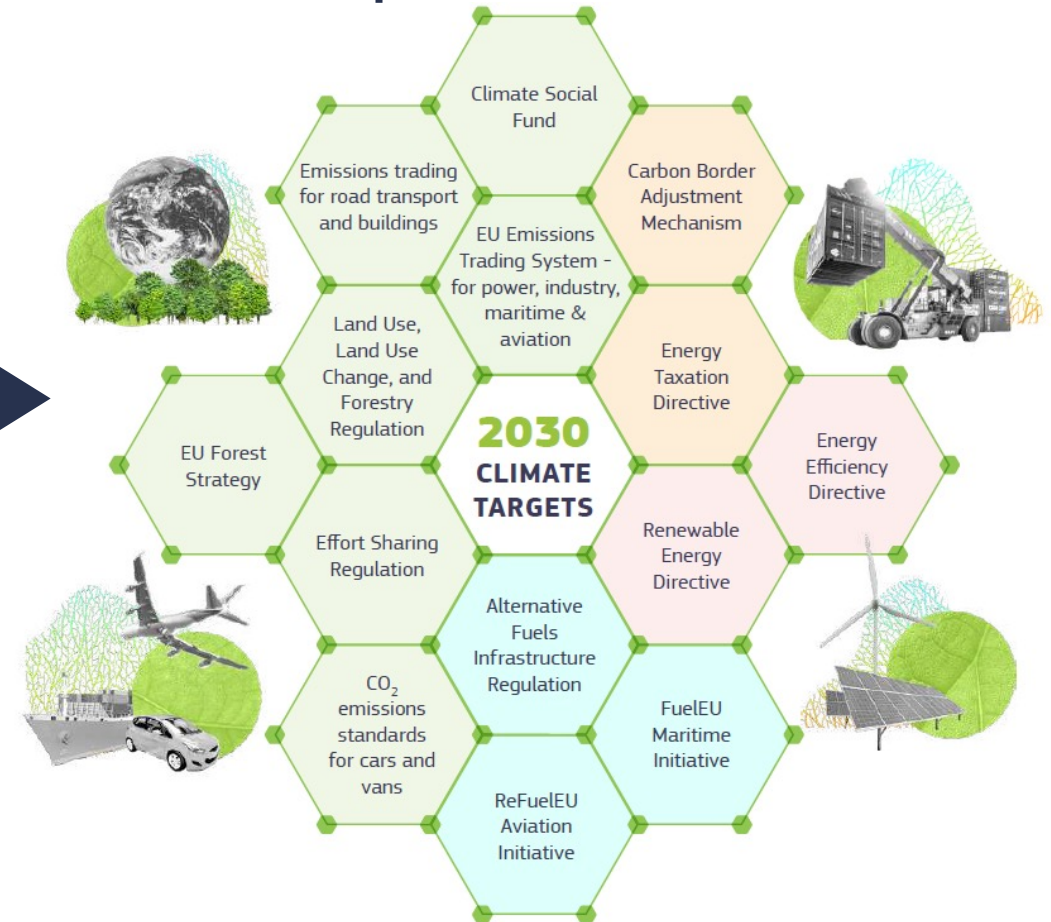
## GREEN DEAL

EU Strategy to reach climate neutrality and economic growth by 2050

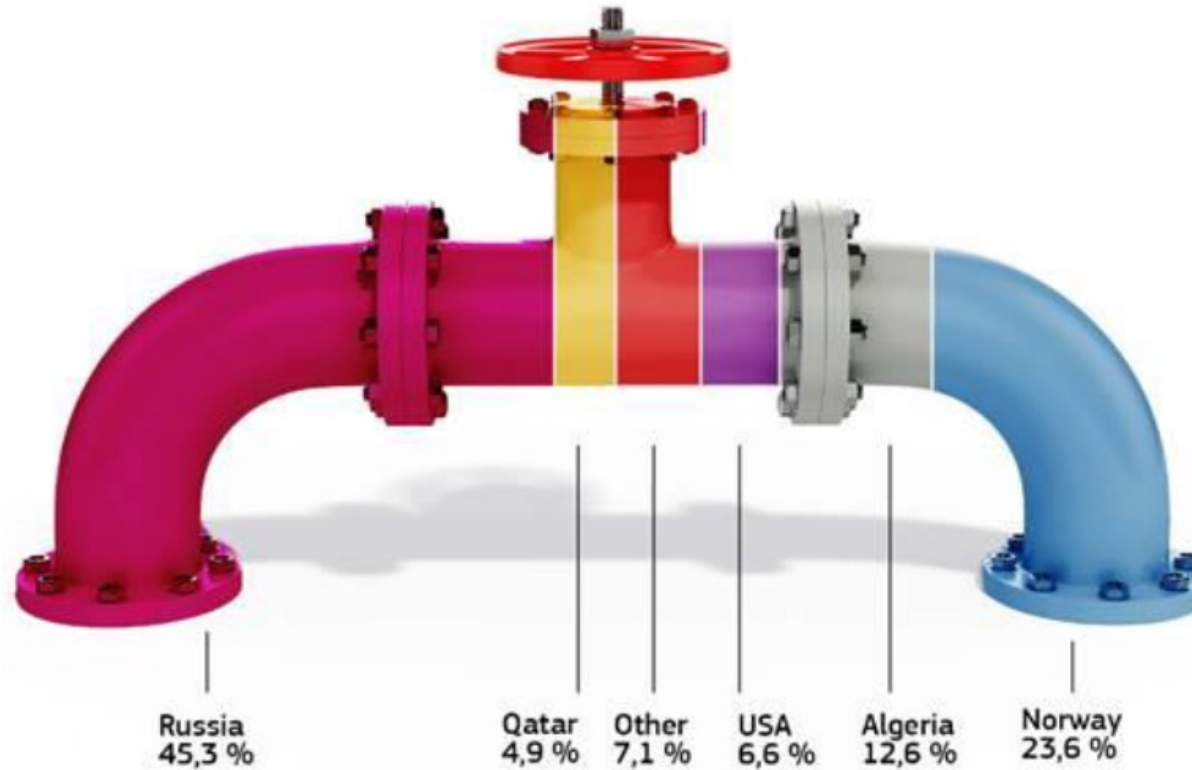


## FIT FOR 55 PACKAGE

Adapt policies to reach -55% GHG by 2030 compared to 1990



# The war in Ukraine, a game changer



Share of EU gas imports in 2021  
(source: European Commission)

# The war in Ukraine, a game changer

**REPowerEU** is about rapidly reducing our dependence on Russian fossil fuels by fast forwarding the clean transition and joining forces to achieve a more resilient energy system and a true Energy Union.





REpowerEU didn't include bioenergy properly (excepted for biomethane).

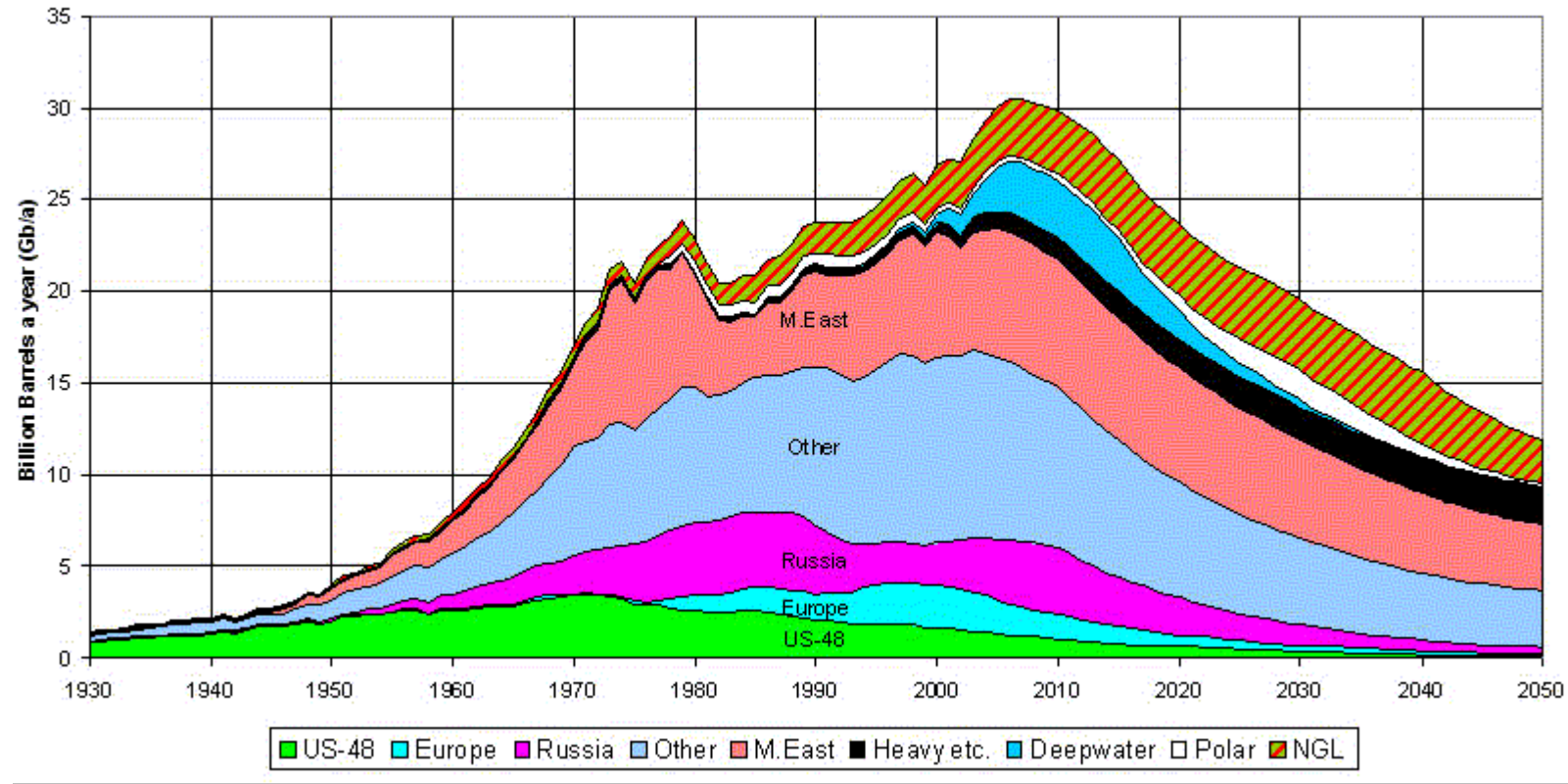
Biomass is still not a priority energy source like electricity or gas or oil that are « too big to fail ».

e.g. ban of wood from Russia but not gas (especially LNG) nor oil.

Exceptions: Serbia, Bosnia Herzegovina, Switzerland.

# Energy: why are we so blind?

## Oil peak is behind us



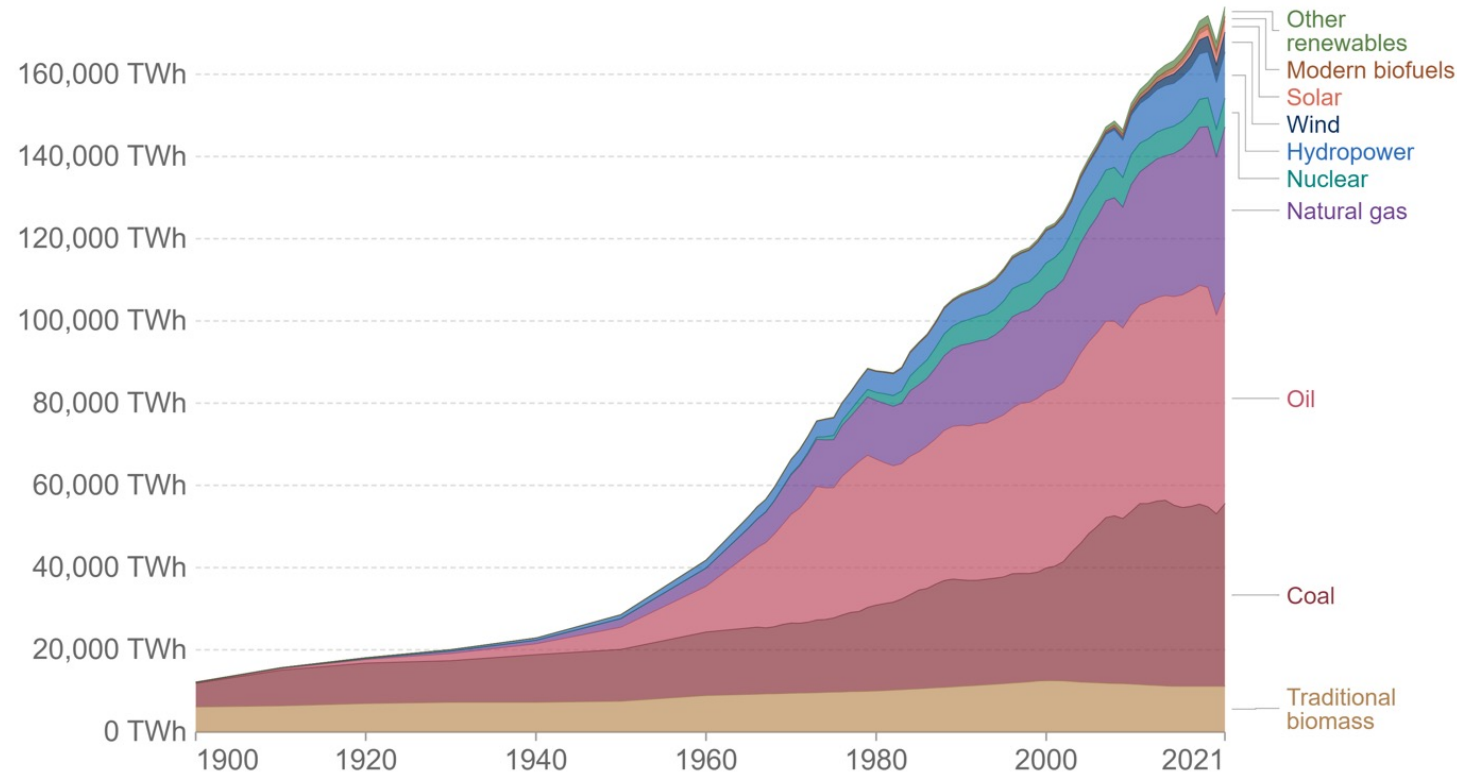
Source: Wikiwand

# Energy: why are we so blind?

## Global primary energy consumption by source

Primary energy is calculated based on the 'substitution method' which takes account of the inefficiencies in fossil fuel production by converting non-fossil energy into the energy inputs required if they had the same conversion losses as fossil fuels.

Our World  
in Data



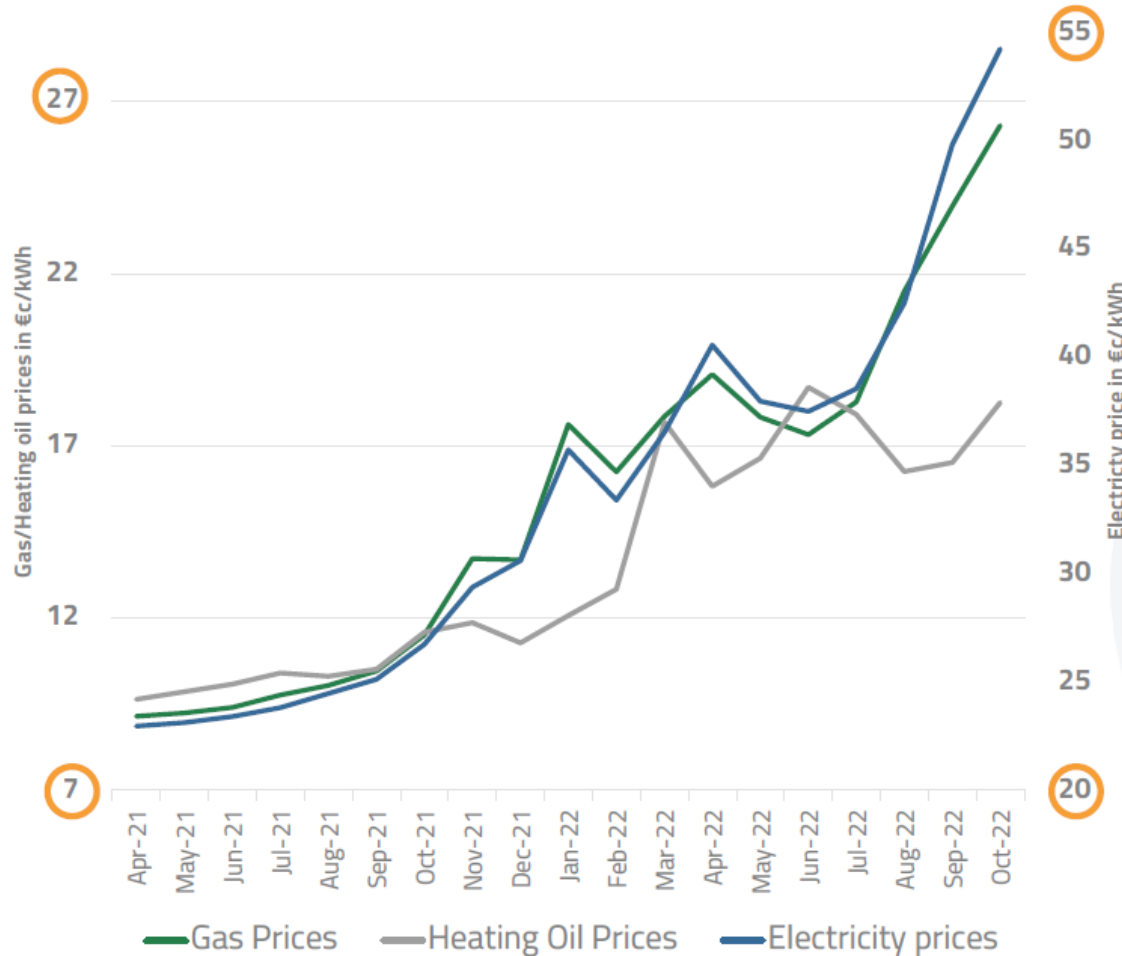
Source: Our World in Data based on Vaclav Smil (2017) and BP Statistical Review of World Energy

OurWorldInData.org/energy • CC BY



# Energy: why are we so blind?

Prices of Gas, Electricity and Heating oil for the residential user in some EU Member States (€/kWh)



- Sample of **10 Member states** (AT, BE, CZ, DE, DK, ES, FR, IT, NL, SE)

- April 2021 – November 2022



+185%



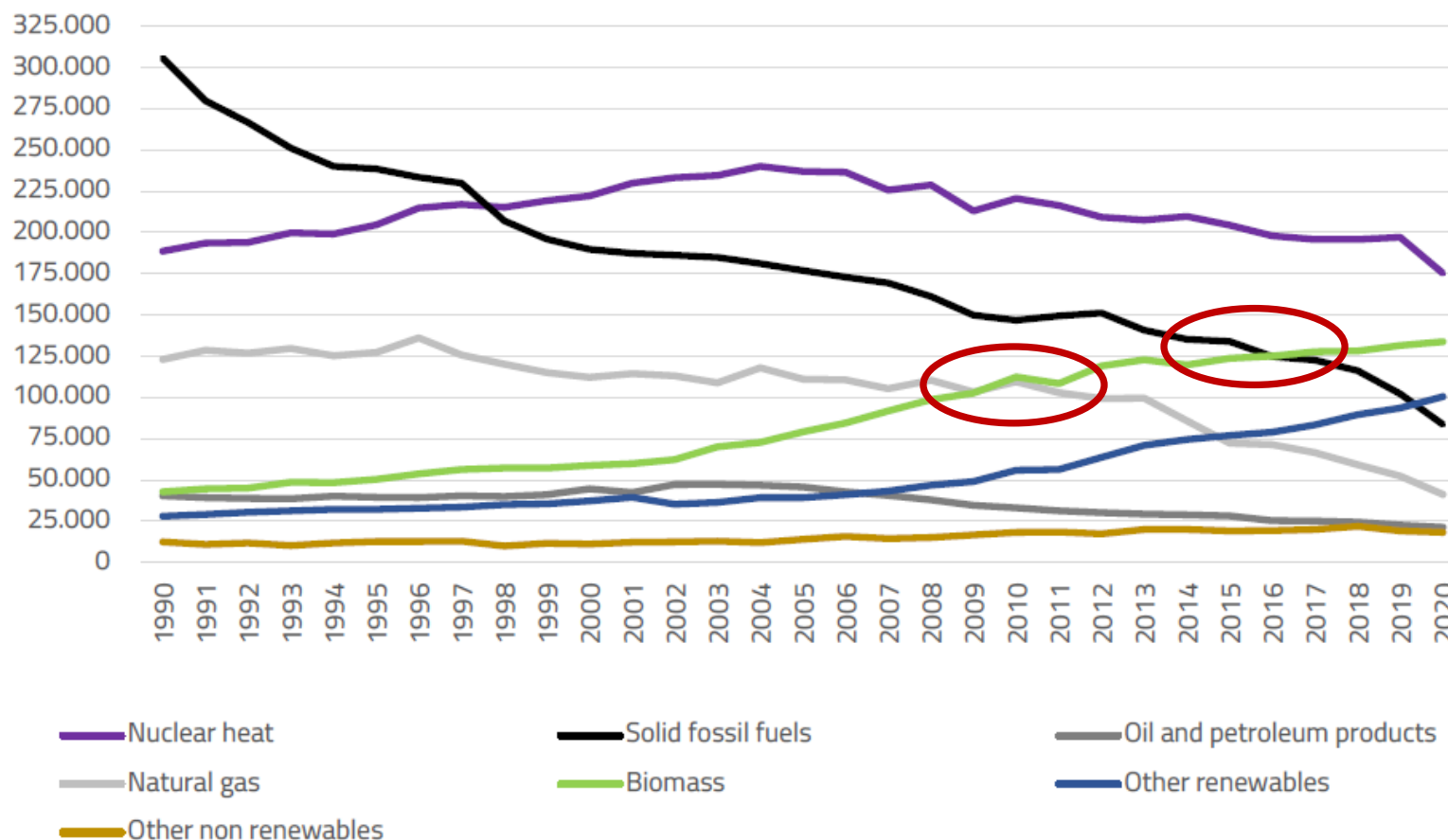
+91%



+135%

# Bionergy is part of the solution with ...

Figure 2 Evolution of primary energy production by main fuel type in EU27 (ktoe)



**... a constant growth,  
becoming the first  
indigenous primary  
supply in Europe.**

Source: Bioenergy Europe statistical report

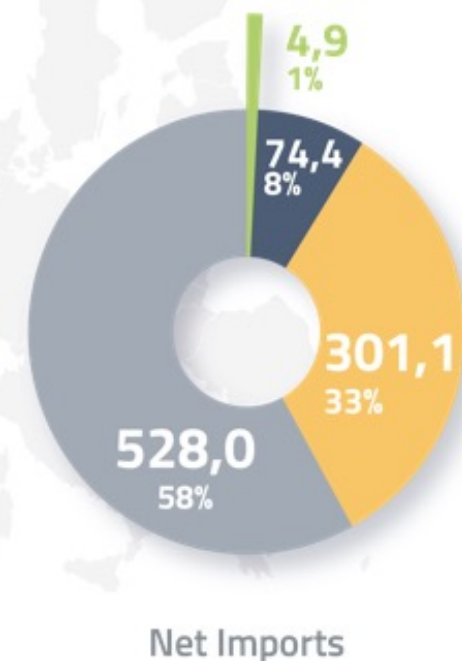
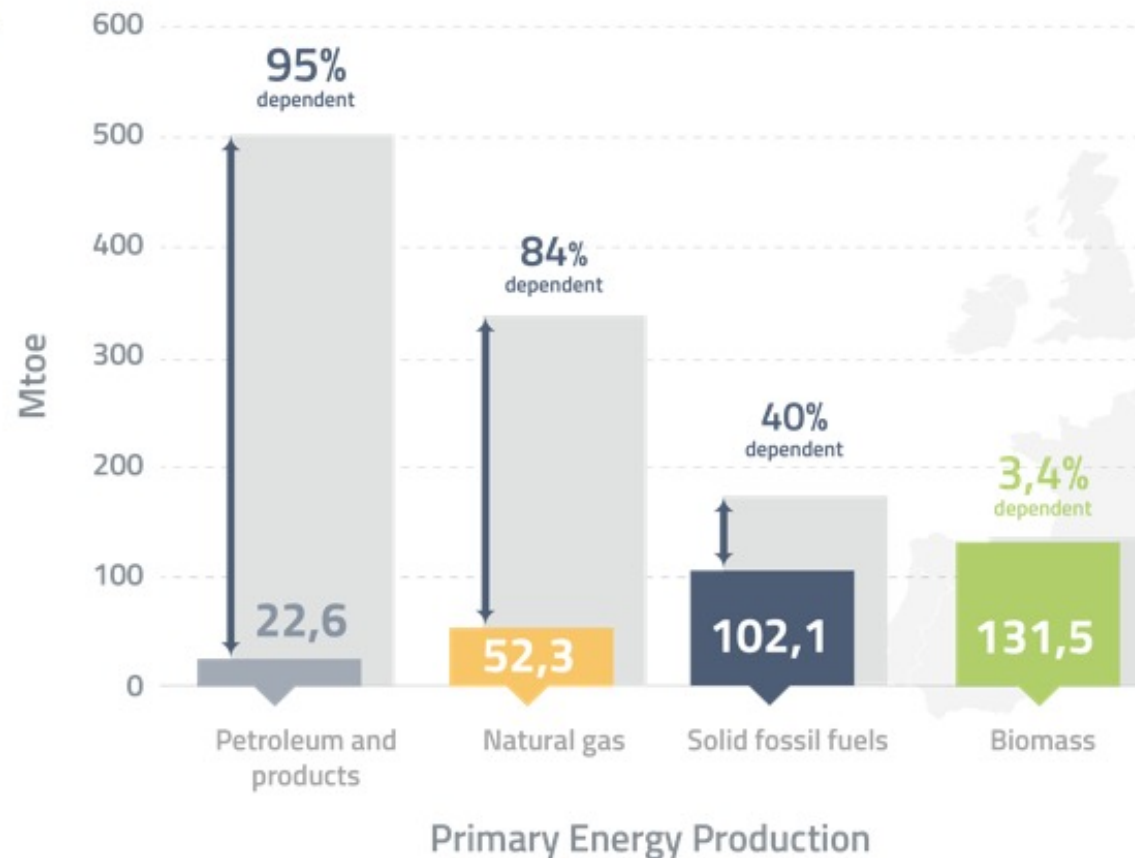
# Bionergy is part of the solution with ...

... an excellent geo-  
political position.

*EU27 energy dependency  
and net imports  
(in 2019, Mtoe, %)*

- Gross inland consumption
- Petroleum and products
- Natural gas
- Solid fossil fuels
- Biomass

Source: Eurostat, Bioenergy  
Europe's calculations





# EU Net-Zero Industry Act ...

This legislation will help scale up net-zero technology manufacturing in the EU to provide **at least 40%** of the EU's annual deployment needs for strategic net-zero technologies by 2030.

Simplifying  
the regulatory  
framework for  
net-zero technologies

Scaling up  
manufacturing  
of net-zero  
technologies

Fostering  
competitive and  
resilient European  
net-zero industry

But the EU currently depends on imports for many net-zero technologies:

**More than 90%** of solar photovoltaic (PV) wafers and certain other PV technology components are imported from China

**More than 1/4** of electric cars and batteries are imported from China

China accounts for **90%** of global investments in net zero technology manufacturing facilities.

## ... a missed opportunity?

**50.000 +**  
bioenergy businesses in the EU

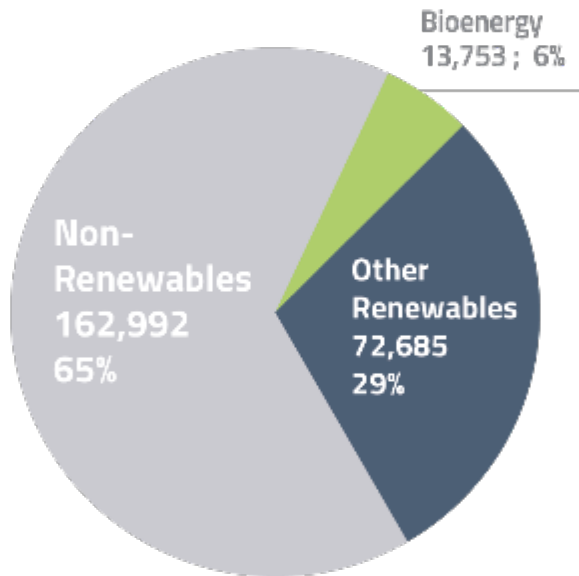


**Bioenergy equipment suppliers\* based in Europe**

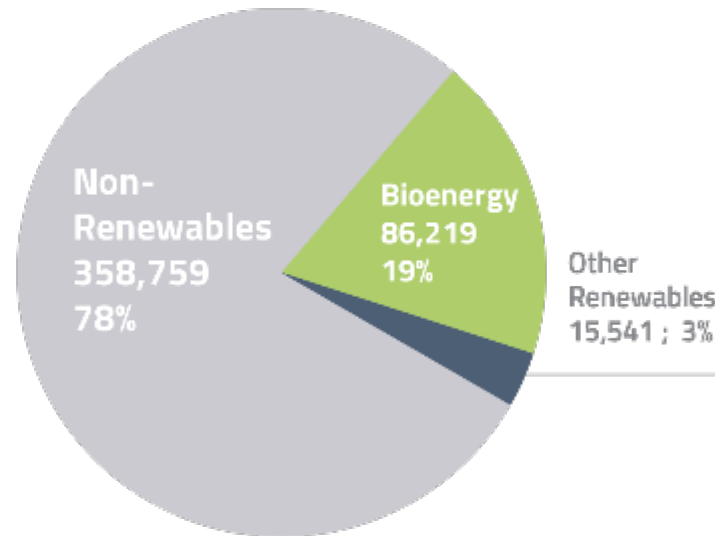
*\* Representing over 464 international suppliers of equipment to the bioenergy sector. This figure accounts only for companies engaged in export and/or have subsidiaries in other regions. It does not include small scale heating equipment suppliers.*

Final energy consumption for EU 27 (ktoe, 2019)

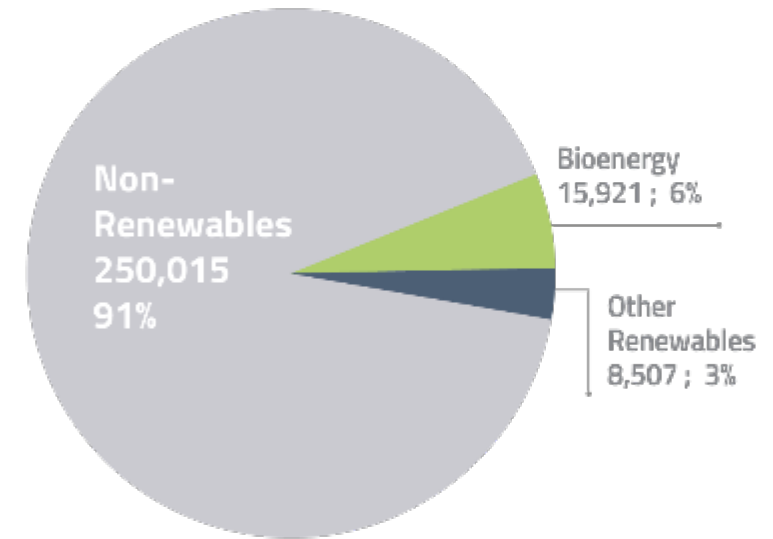
## ELECTRICITY



## HEATING & COOLING



## TRANSPORT



## Number of EN*plus* certified pellet plants across Europe and beyond

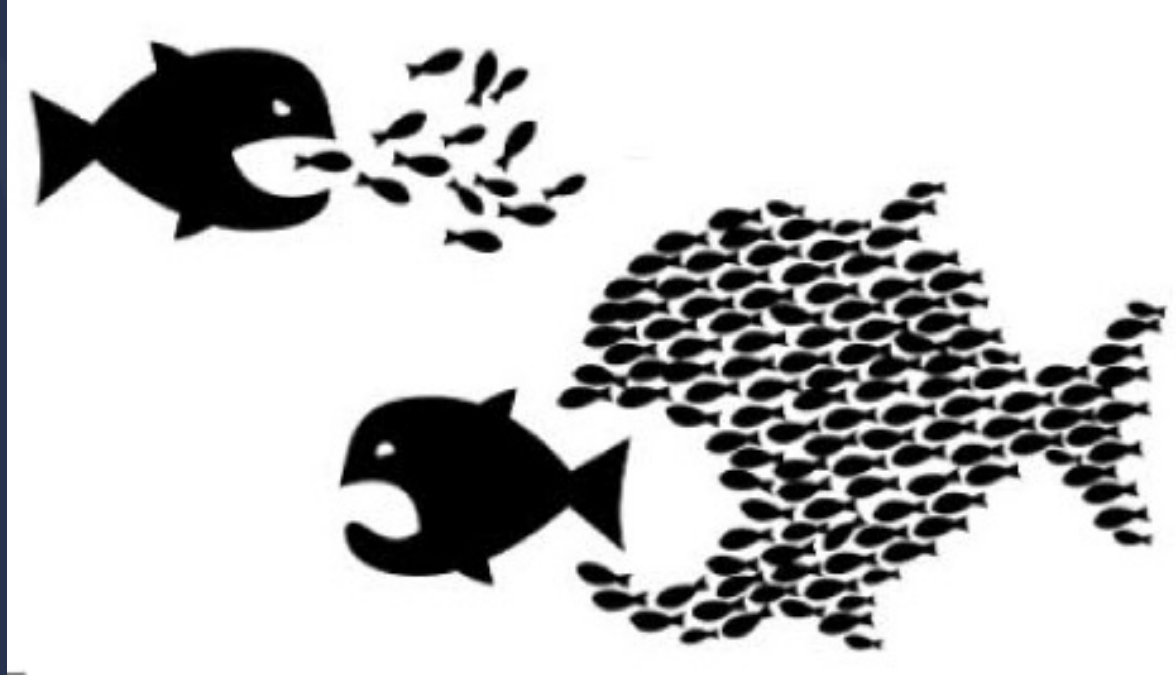


Source: Bioenergy Europe, ENplus



Bioenergy is contributing to the EU energy security ...  
but lacks credibility from decision makers!

# Don't panic, Organize!



## Thank You!