HELLABIOM WEBINAR

European BIOHEAT
Overview & drivers for future development





About Us

Our Activities & Services



Common voice of European bioenergy since 1990



Unites 40+ national associations and 125+ companies



Hosting 2 networks





EU Policy Monitoring & Influence



Market Data



Visibility



Networking



Free & Discounted event



Quality & sustainability certifications

Our Members

*as of August 2021



Companies



Associations



Academia















Our Greek members









Our Working Groups

Members Only



Next Date: 25.11.2021

Next Date: 14.10.2021

Next Date: 07.10.2021



Domestic Heating

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

Next Date: 30.09.2021

Next Date: 24.11.2021

Next Date: TBC



Pellets

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



Agrobiomass & Energy Crops

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



Competitiveness

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

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.



Wood Chips

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



Biopower & CHP Next Date: 14.10.2021

Provides with updates on key EU developments and allows for exchanges on policy & market intelligence relating to the role of bioenergy in power and heating sectors.

Statistical Reports

Members Only

Bioenergy Europe's annual Statistical Reports – the leading sources of bioenergy statistics since 2007.

Enhanced Visibility & Sponsorship Exclusively for Members

The full reports are free for all Bioenergy Europe members, while non-members can gain a sample version. For more information, please contact Cristina Calderon.

https://bioenergyeurope.org/statistical-report.html

Sponsored by:









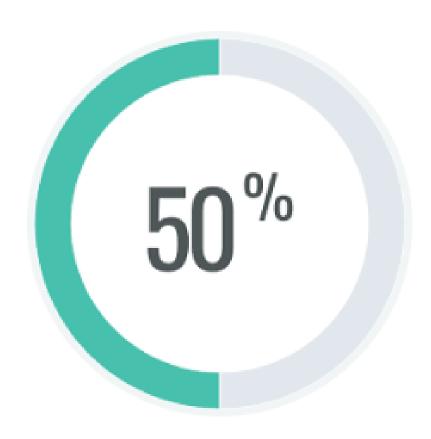
Every year, our members are provided with unique new statistics and findings on 7 specific sectors of bioenergy, namely:

	Bioelectricity	Available Now
	Biogas	Available Now
+	Biofuels for Transport	Available Now
	Bioheat	Available Now
	Pellets	Release Date: Oct 2021
	Biomass Supply	Release Date: Nov 2021
	Bioenergy Landscape	Release Date: Dec 2021

Overview



H&C importance in EU energy use



50%

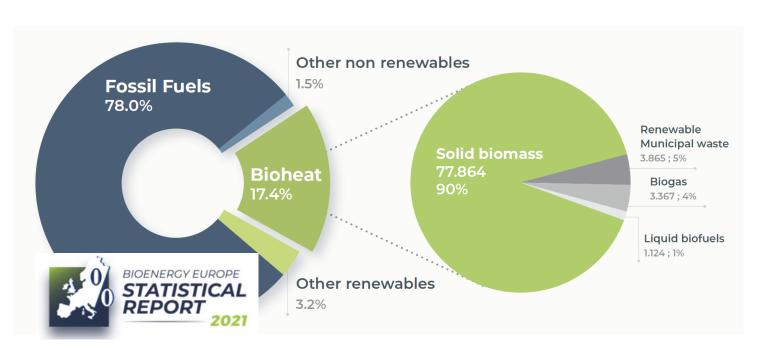
Heating and cooling (H&C) represented nearly half of the final energy consumption in the EU27 in 2019

34%

Heat is the main contributor to <u>air pollution</u> and is responsible for 34% <u>greenhouse gases</u> (GHG) emissions.

Bioheat to decarbonize H&C

Contribution of the different energy sources in heating and cooling in EU27 in 2019 (%)



78%

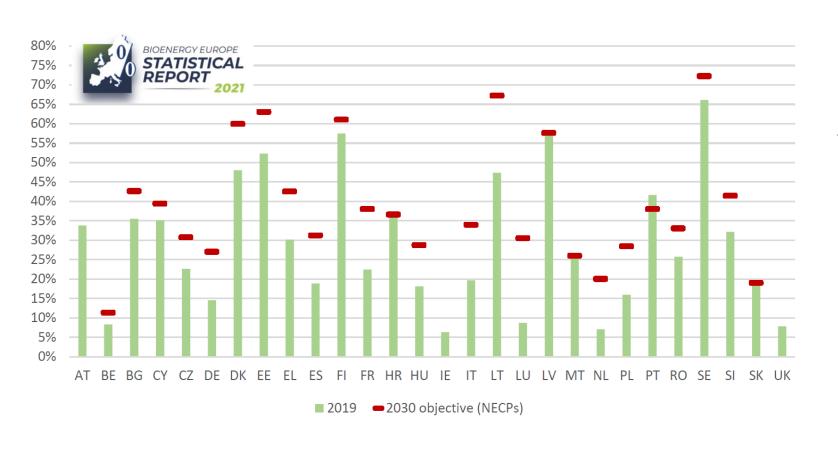
of <u>Heating and cooling</u> (H&C) covered by fossil fuel

=> Bioheat/Solid biomass is key contributor to H&C decarbonisation

To ensure the new 2030 climate target of 55% is achieved, CO_2 emissions from buildings will need to be reduced by 60* by 2030 (compared to 2015 levels) => immediate actions needed

Bioheat to decarbonize H&C

Renewable energy share in the H&C sector in 2019 and 2030 Member States objectives (%)



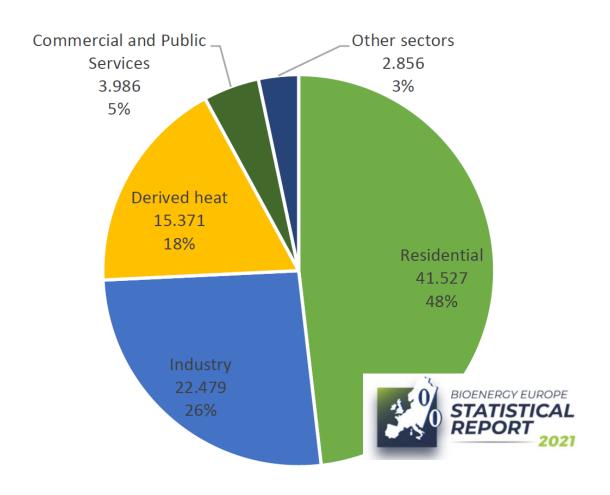
Bioheat key contributor to H&C decarbonisation in many Members States.

BioHeat

Bi energy EUROPE

Residential energy use in H&C

Total bioheat consumption in the different sectors in EU27 in 2019 (ktoe, %)

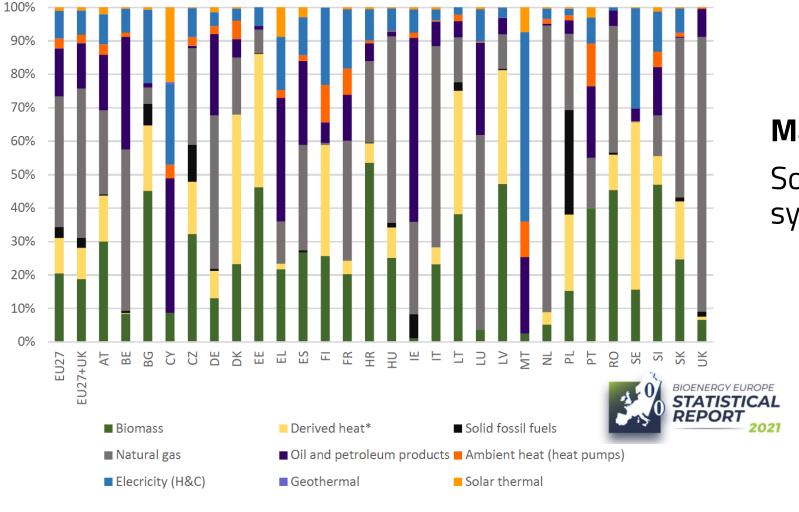


+/- 50%

of total H&C is coming from the residential sector



Shares of energy used for heating and cooling in the residential sector by EU27 Member States and UK in 2019 (%)



Main target

Solid fossil fuel, oil and natural gas systems

Residential BIOHEAT

Key drivers for success





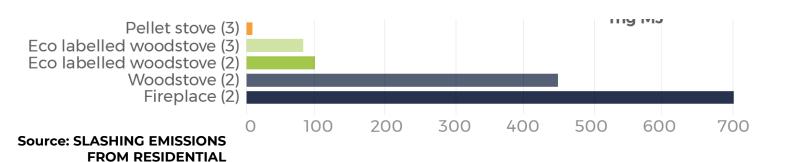


BioHeat

Bioheat pollution

WOOD HEATING

Particle emissions for various residential combustion appliances (mg/MJ)

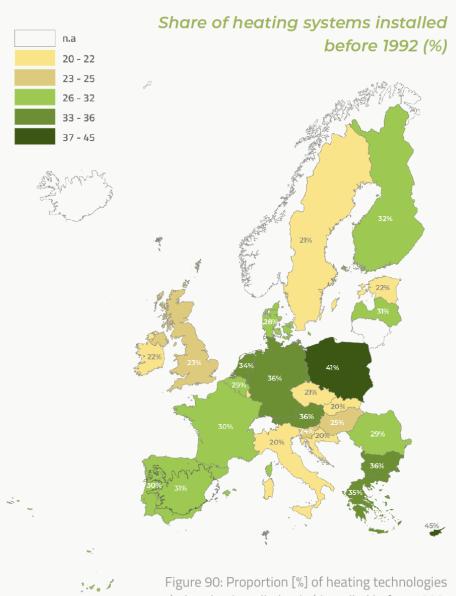


25%

heating installations are older than 30 years and

the slow rate of substitution needs to be tackled to reach net zero by 2050 as well as higher air quality objectives by 2030.





(related to installed units) installed before 1992.

Source: European Commission, report N°ENER/C2/2014-641-2016

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Key drivers for success









Bi energy EUROPE

Modern appliances



Source: https://www.contura.eu/english/news/blog-and-articles/ecodesign-ready-stoves-reduce-emissions-by-90/

Rely on voluntary schemes to guarantee appliances performances

Italy





EU scheme recommended



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Installer competence





Rely on voluntary schemes to guarantee installers competence

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Fuel quality





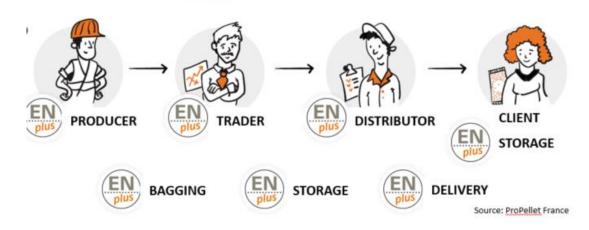




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Fuel quality ENplus®

PELLET SUPPLY CHAIN



Quality certification scheme for wood pellets covering the entire supply chain

- Based on an international standard (ISO 17225-2) but even stricter criteria
- Third-party certification scheme
- First introduced in Germany 2010 by DEPI
- ENplus® Handbook 3.0. released on 1st of August 2015. Ongoing revision process planned to be finished by the end of 2020
- ENplus[®] is managed on an international level by EPC and in some countries by National Licensers

Bi energy EUROPE

Fuel quality ENplus®



Set up requirements

ENplus® Managed by EPC



Receive the right to use the trademark

Certified companies



Fuel quality





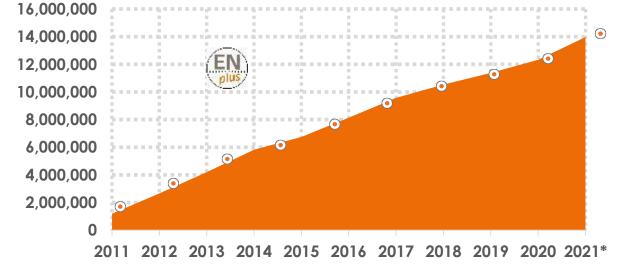
Fuel quality

Worldwide ENplus® certified pellet production plants

(from 2011 to 2021*)

Source: ENplus®





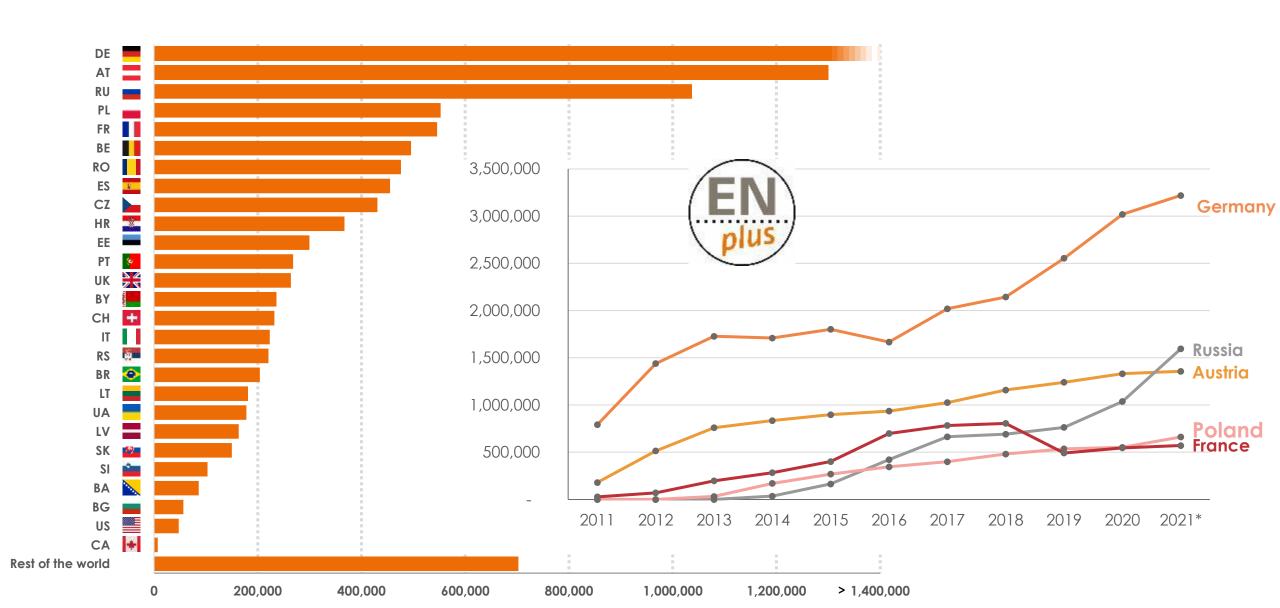
Worldwide ENplus® certified pellet production

(from 2011 to 2021*, tonnes)

Source: ENplus®

Bi energy EUROPE

Fuel quality



Global pellet market OVERVIEW

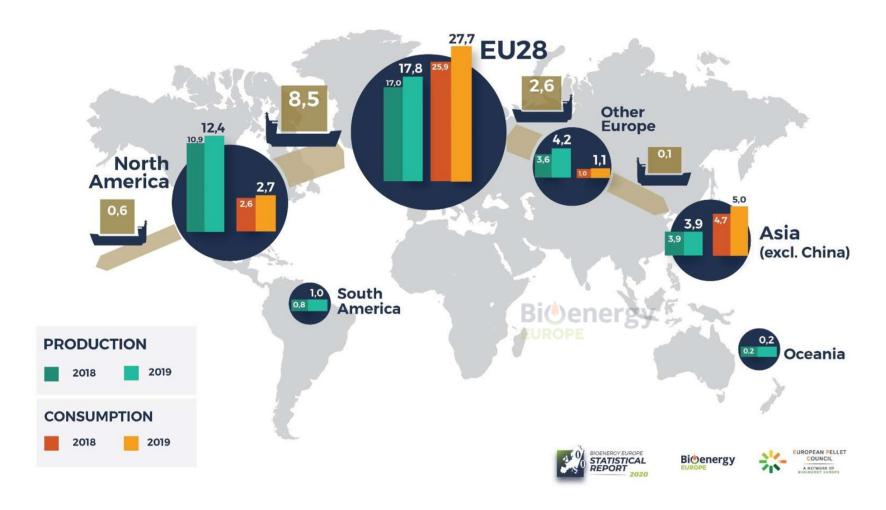


World pellet map and trade flow in 2018 & 2019 (million tonnes)

Market dynamics

Europe remains the leader both general pellet production and use (except China)

In the recent years, the more dynamic areas both for production and use is Asia.



Residential market update DEMAND



PREMIUM PELLET DEMAND

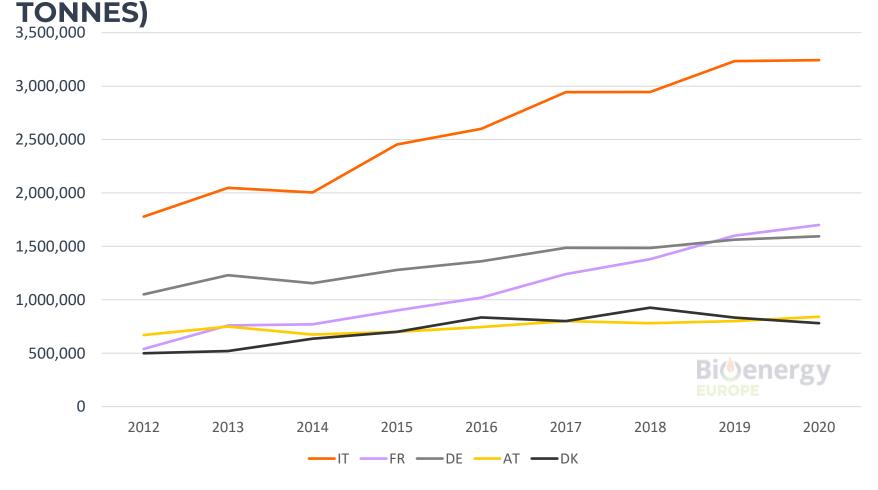
Ok demand European level

No impressive increase in 2020 but very likely in 2021 (if ok winter)

2020 in a selection of countries

- Increase in FR
- **Stable** in many countries IT, AT, DE
- Decrease in DK

PREMIUM PELLET DEMAND IN LEADING COUNTRIES (IN



Residential market update APPLIANCES SALES - STOVES

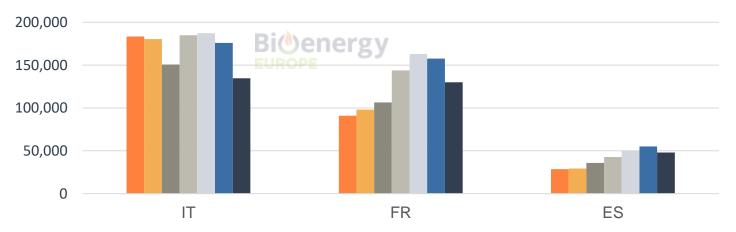


PELLET STOVES

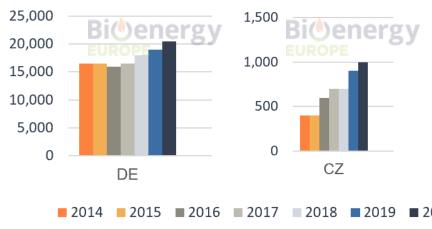
PELLET STOVES - annual sales in a selection of countries (units)

- **Disappointing sales** in leading countries
- **Sign of growth** in some other countries

Are the sales of pellet stoves to plateau in Europe?



Source: Bioenergy Europe



Residential market update APPLIANCES SALES - RESIDENTIAL BOILERS



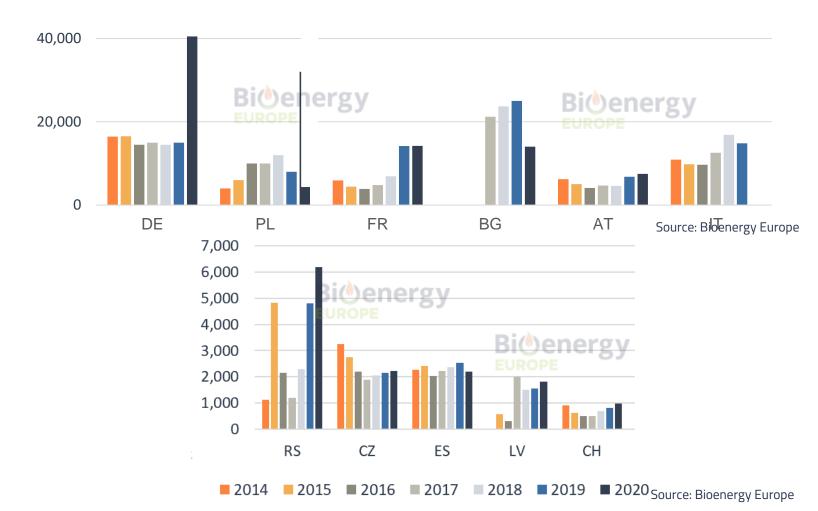
PELLET RESIDENTIAL BOILERS

- Superb sales in Germany and Austria
- Nice sales in <u>France</u> (much better to come in 2021!)

Some European boilers manufacturers have **doubled** (if not more) their **turnover** in a few years! Some are currently **doubling** their **production capacity**.

Seems all in all that the boilers sales is increasing faster than the stoves (European level, relative growth).

PELLET RESIDENTIAL BOILERS Annual sales in a selection of countries (units)



Residential market update APPLIANCES SALES - INCENTIVES



KEY DRIVER - FOSSIL FUEL PHASING OUT!

AUSTRIA

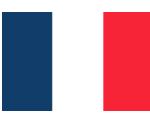
- Phasing out plan for fossil fuels in the heating sector (heating oil and maybe natural gas)



- Renewable heat law to be voted mid-2021

- Subsidies up to 5.000€ (federal) + 3.000 - 6.000€ (provincial subsidies) for systems replacement

FRANCE



- No more incentives are available for heating oil systems (since 2018)

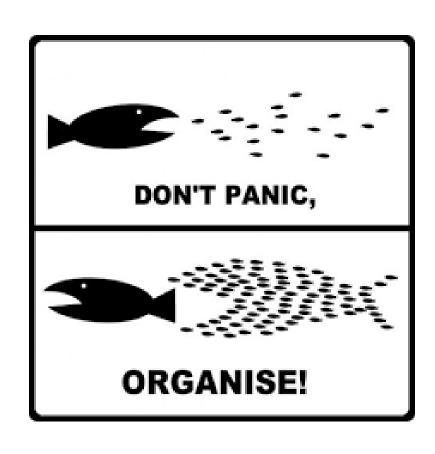
- 2030 ban of heating oil systems (since 2019, 3 million units to replace)
- From January 2022, no equipment running of fuel emitting more than 250gCO2eq/kWh in new buildings (residential and commercial)

GERMANY



- 2026 ban of heating oil only systems (hybrid system accepted)
- Obligation of old heating oil systems (above 30 years)
- Subsidy up to 45% the replacement of heating oil system





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Thank You!

