



EUROPEAN PELLET
COUNCIL
AN AEBIOM NETWORK

EN*plus*

The guarantee for pellets quality

Forum Pelletu 19th September 2016
Gilles Gauthier

www.pelletcouncil.eu

The European Pellet Council (EPC) is an umbrella organisation of AEBIOM founded in 2010, aiming at representing the interests of the wood pellet sector and at ensuring its sustainable development at European level. EPC members are made up of 18 national pellet associations and related organisations, from 17 countries and 4 observing members.

The European Pellet Council (EPC)
C/O European Biomass Association
2, Place du Champ de Mars, 1050
Brussels (BE)



Messages

- Who is managing EN*plus*
- EN*plus* registered trademark
- EN*plus* cares about quality
- EN*plus* cares about fraud



The common voice of the European bioenergy sector over the past 25 years.

Founded in 1990, AEBIOM is an international non-profit Brussels based organisation, bringing together 29 national associations and around 90 companies from all over Europe thus representing more than 4000 indirect members.



AEBIOM is an umbrella organisation for:



EUROPEAN PELLET COUNCIL
AN AEBIOM NETWORK

EPC is representing the interests of the European wood pellet sector.



INTERNATIONAL BIOMASS TORREFACTION COUNCIL
AN AEBIOM NETWORK

IBTC is a platform of international companies promoting the use of torrefied biomass as energy carrier.



AEBIOM STATISTICAL REPORT



EUROPEAN BIOENERGY FUTURE



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European Pellet Council



EPC vision

Pellets will become a leading source of renewable energy in Europe, providing a credible solution for people and business as a standardised commodity. Pellets are seen as an environmentally benign product delivering added value to energy use in a well-functioning market.

EPC characteristics

- Founded in 2010
- Organised in the AEBIOM
- Umbrella organisation
 - 17 national pellet associations
 - 4 observing members

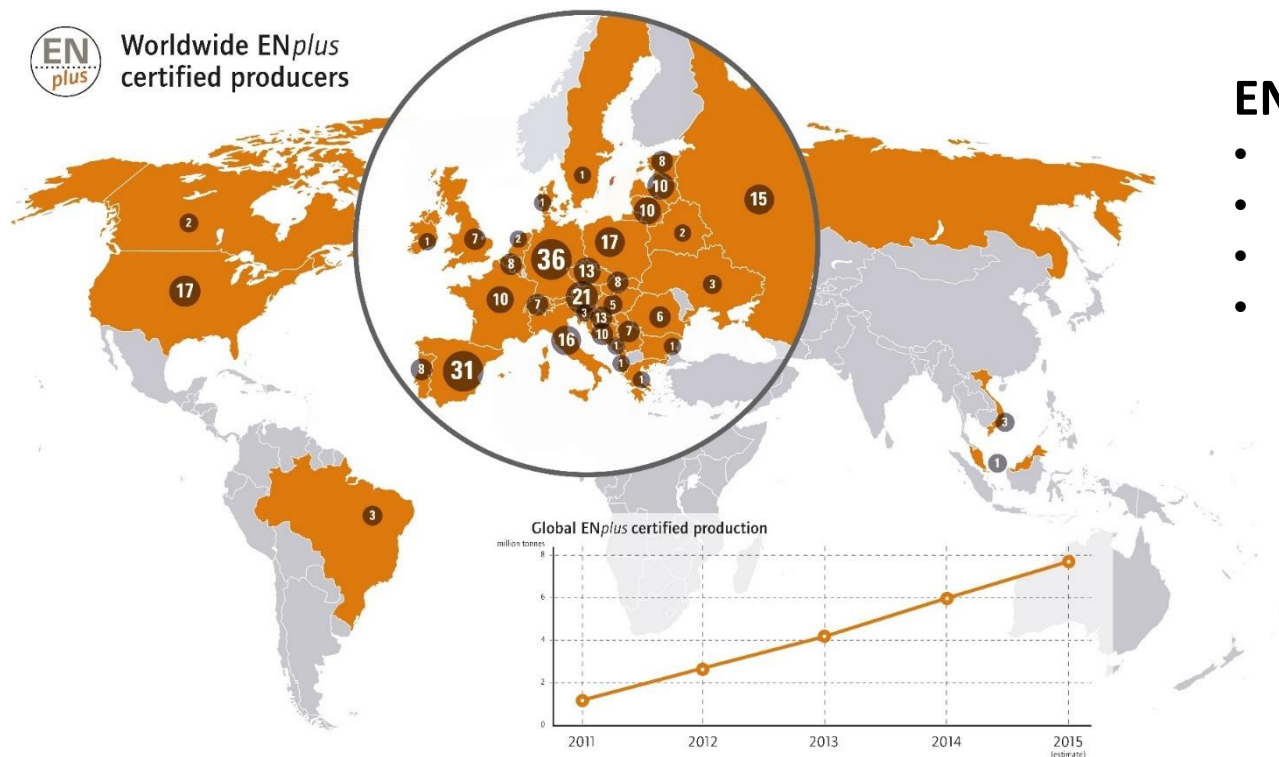
EPC activities

- Promote pellet
- Advocacy for pellet
- Quality of pellet sector
- Market intelligence



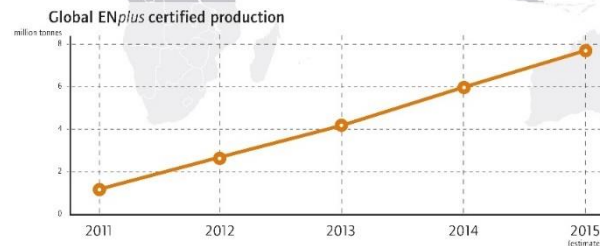
Pellet quality ENplus

 Worldwide ENplus
certified producers



ENplus today

- 344 producers certified
- 318 traders certified
- 43 countries
- 8 Mio t (end 2016 estimation)



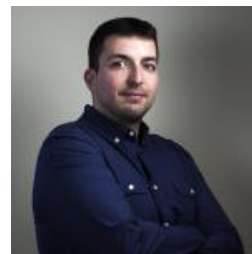
ENplus team in Brussels



Gilles Gauthier
General manager



Elena Dumitru
ENplus management



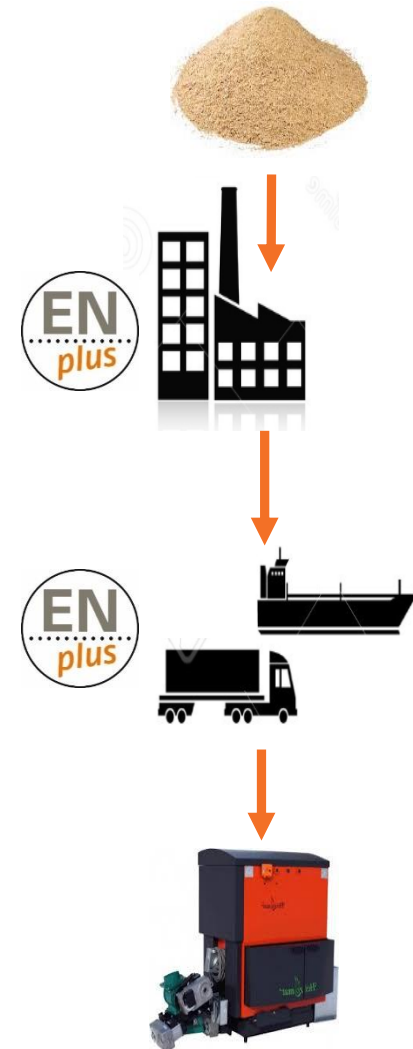
Ramiro Penedo
ENplus management



Jakob Bosch
ENplus management

Pellet quality ENplus

- Quality certification scheme for wood pellets
- ENplus is a registered trademark
- Based on an international standard – ISO 17225-2 but even stricter criteria
- First introduced in Germany 2010
- Important update with ENplus Handbook 3.0. - released on 1st of August 2015
- ENplus is managed on an international level by EPC. National pellet associations implement ENplus in their country and receive therefore the license rights from EPC.
- Certification \neq standard
- Covering the entire supply chain from raw material to end-user



Pellet quality ENplus

Technical requirements

Property	Unit	ENplus A1	ENplus A2	ENplus B	Testing standard ¹¹⁾
Diameter	mm	6 ± 1 or 8 ± 1			ISO 17829
Length	mm	3,15 < L ≤ 40 ⁴⁾			ISO 17829
Moisture	w-% ²⁾	≤ 10			ISO 18134
Ash	w-% ³⁾	≤ 0,7	≤ 1,2	≤ 2,0	ISO 18122
Mechanical Durability	w-% ²⁾	≥ 98,0 ⁵⁾	≥ 97,5 ⁵⁾		ISO 17831-1
Fines (< 3,15 mm)	w-% ²⁾	≤ 1,0 ⁶⁾ (≤ 0,5 ⁷⁾)			ISO 18846
Temperature of pellets	°C	≤ 40 ⁸⁾			
Net Calorific Value	kWh/kg ²⁾	≥ 4,6 ⁹⁾			ISO 18125
Bulk Density	kg/m ^{3 2)}	600 ≤ BD ≤ 750			ISO 17828
Additives	w-% ²⁾	≤ 2 ¹⁰⁾			-
Nitrogen	w-% ³⁾	≤ 0,3	≤ 0,5	≤ 1,0	ISO 16948
Sulfur	w-% ³⁾	≤ 0,04	≤ 0,05		ISO 16994
Chlorine	w-% ³⁾	≤ 0,02		≤ 0,03	ISO 16994
Ash Deformation Temperature ¹⁾	°C	≥ 1200	≥ 1100		CEN/TC 15370-1
Arsenic	mg/kg ³⁾	≤1			ISO 16968
Cadmium	mg/kg ³⁾	≤ 0,5			ISO 16968
Chromium	mg/kg ³⁾	≤10			ISO 16968
Copper	mg/kg ³⁾	≤10			ISO 16968
Lead	mg/kg ³⁾	≤10			ISO 16968
Mercury	mg/kg ³⁾	≤ 0,1			ISO 16968
Nickel	mg/kg ³⁾	≤10			ISO 16968
Zinc	mg/kg ³⁾	≤100			ISO 16968



BE 023



BE 023



BE 023

Pellet quality ENplus

Technical requirements – handbook 3.0 update

Property	Unit	ENplus A1	ENplus A2	ENplus B
Diameter	mm	6 ± 1 or 8 ± 1		
Length	mm	$3,15 < L \leq 40$ ³⁾		
Moisture Content	w-% ¹⁾	≤ 10		
Ash Content	w-% ²⁾	$\leq 0,7$	$\leq 1,2$ (1,5)	$\leq 2,0$ (3,0)
Mechanical Durability	w-% ¹⁾	$\geq 98,0$ (97,5)	$\geq 97,5$	$\geq 97,5$ (96,5)
Fines	w-% ¹⁾	$\leq 1,0$ ⁴⁾ ($\leq 0,5$ ⁵⁾)		
Pellet-Temperature	°C	≤ 40 ⁶⁾		
Net Calorific Value	kWh/kg ¹⁾	$\geq 4,6$		
Bulk Density	kg/m ³ ¹⁾	$600 \leq BD \leq 750$		
Additives	w-% ¹⁾	≤ 2		

¹⁾ As received ²⁾ Dry basis ³⁾ max. 1% of the pellets is allowed to have a length between 40, no pellets longer than 45mm are allowed

⁴⁾ At factory gate or when loading truck for deliveries to end-users ⁵⁾ at factory gate, when filling pellet bags or sealed Big Bags.

⁶⁾ at the last loading point for truck deliveries to end-users

Value from version 2.0 of the Handbook

Deviation from ISO 17225-2

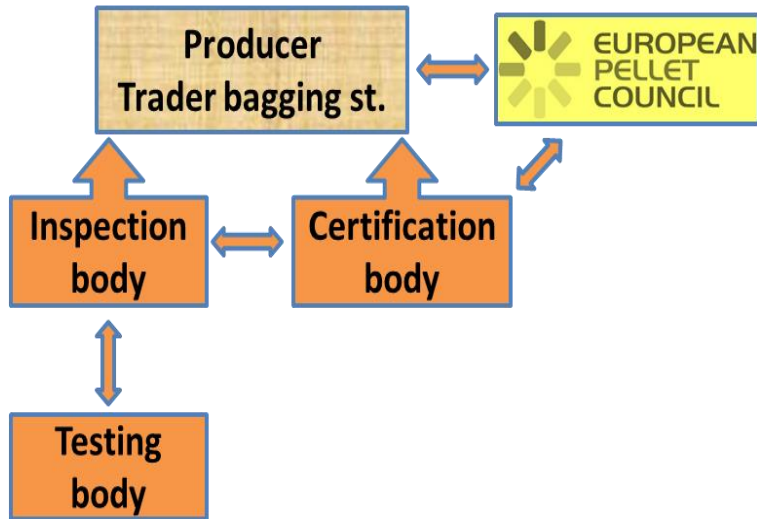
Mechanical Durability in ISO 17225-2:

Class A1: $\geq 97,5$ w-% Class B: $\geq 96,5$ w-%

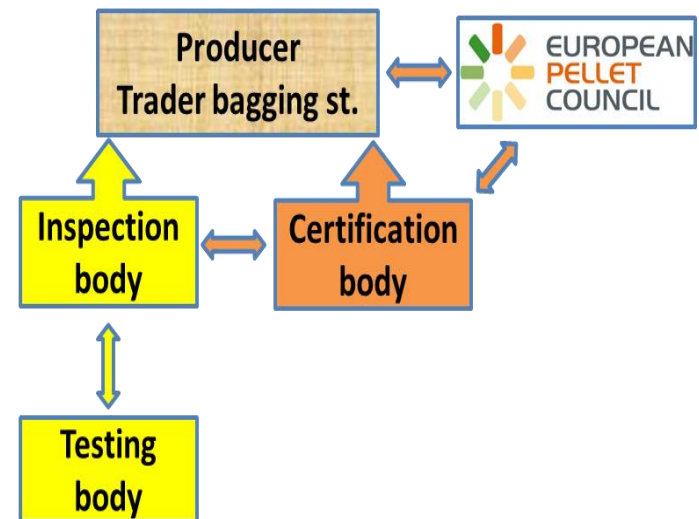
Pellet quality ENplus

Certification process

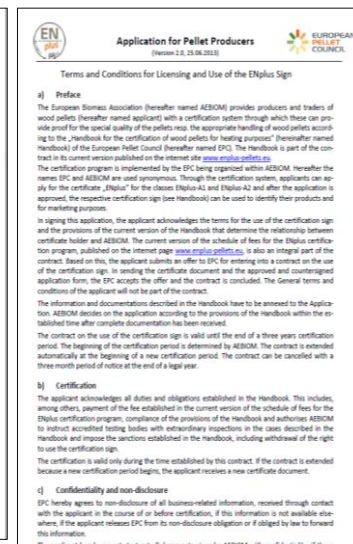
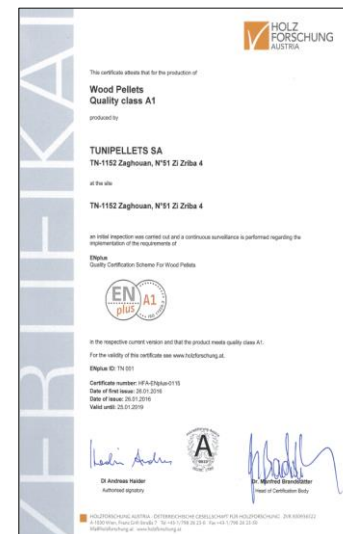
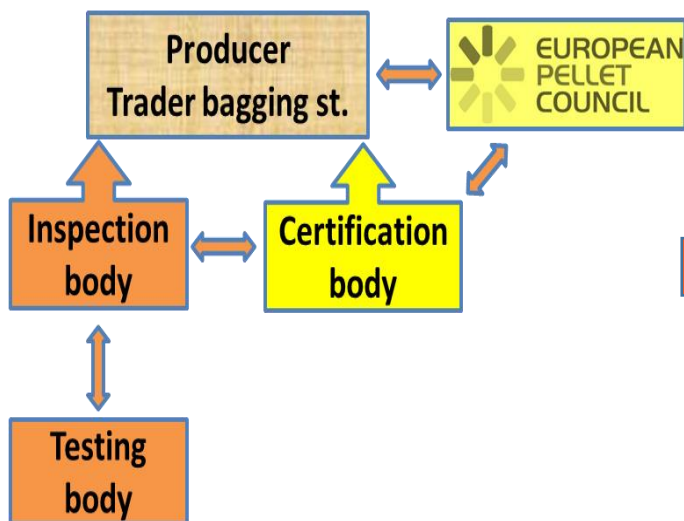
Administrative phase



Plant audit



Last steps



Pellet quality EN*plus*

Quality control

Bad quality notification

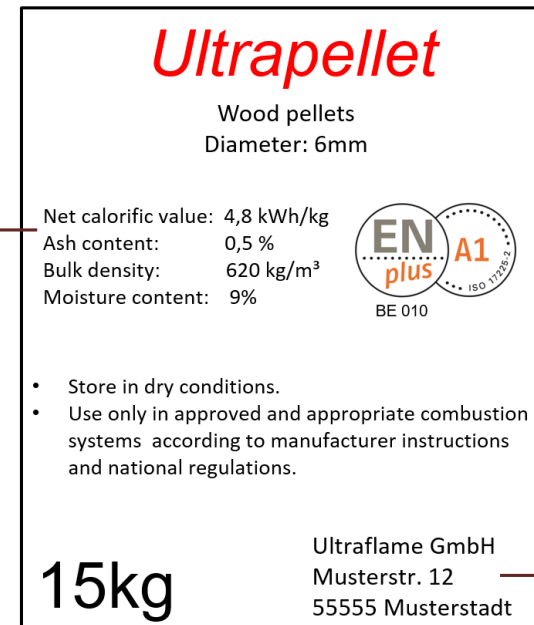
- EPC investigation
- Contact with certification body
- Possible extraordinary inspection
- If quality issue confirmed => certificate suspended
- If quality issue unsolved => certificate revoked



Please contact us! enplus@pelletcouncil.eu

**A proper bag design is essential
=> It has to be approved by EPC**

Voluntary but testing
by a listed lab.
Numbers have to
correspond to those in
the lab report



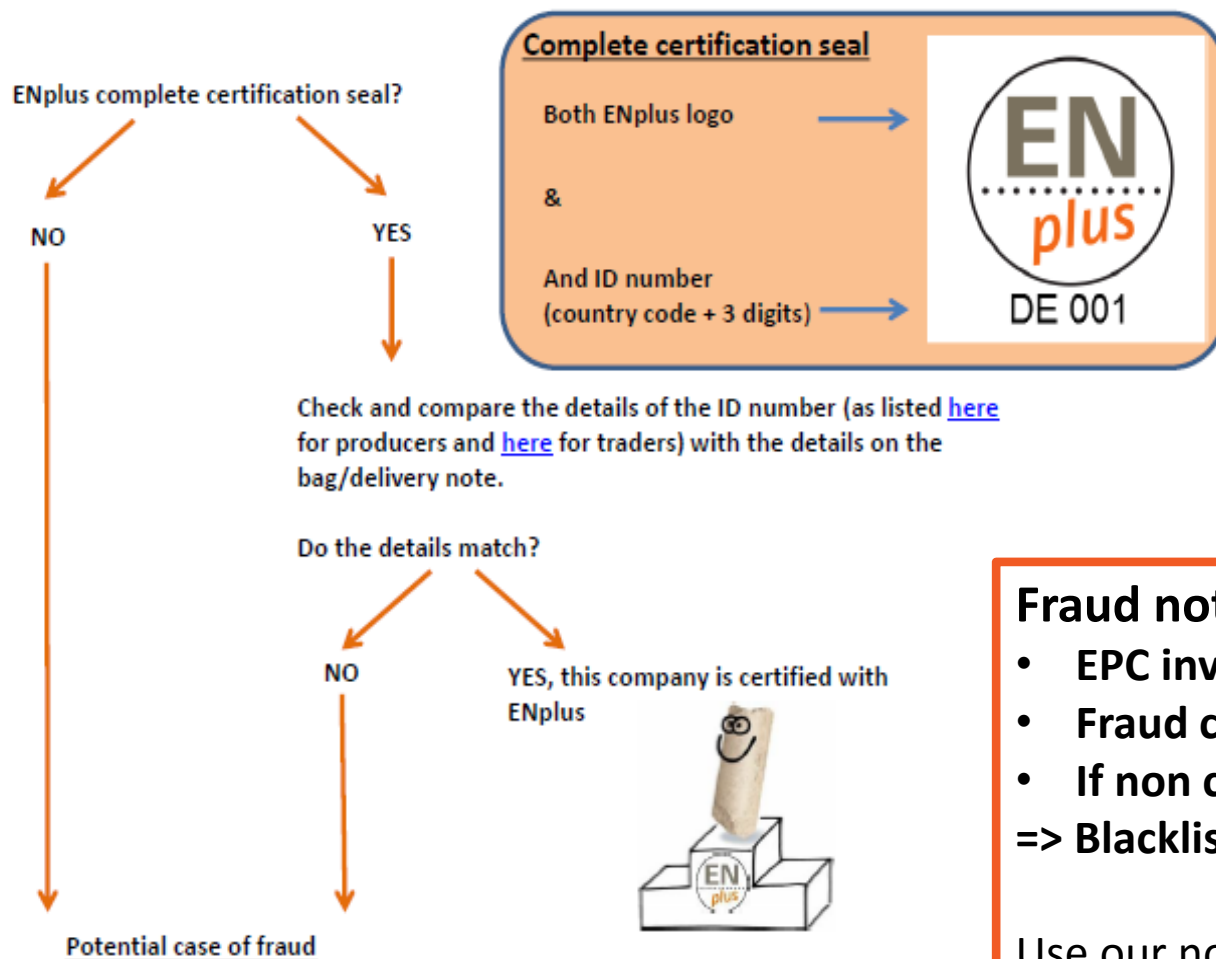
Quality seal
(min. height: 20mm)

Has to
correspond to

Manufacturer
(company responsible
for bagging)

Pellet quality ENplus

Fraud fighting



Fraud notification

- EPC investigation
- Fraud control process with law firm
- If non collaborative company
=> Blacklist & legal actions

Use our notification form!

<http://www.enplus-pellets.eu/fraud/report-fraudulent-actions/>

Check if the country you are located in is listed in this [table](#).

If it is, please contact that national licensor to report the fraud.

If not, please contact [EPC](#).

We ask that you would please provide us with as much information as possible (pictures, documents, etc.)



EUROPEAN BIOENERGY FUTURE

2016 AEBIOM CONFERENCE
"Where Market & Policy Meet"



16 & 17 November 2016



MCE Conference & Business Centre
Brussels

For more information, contact aveni@aebiom.org

AEBIOM
EUROPEAN BIOMASS ASSOCIATION



EUROPEAN PELLET
COUNCIL
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Thanks for your attention

WE'RE SOCIAL follow us on your favorite social media sites.



[@Pellets4Europe](#)

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