



PELLET MARKET FROM TRADER'S PROSPECTIVE

Paolo Moscone – CM BIOMASS

organiza

Valladolid • 25 de septiembre • 2019

colaboran



Conferencia internacional
Mercado del Pellet doméstico



EUROPEAN PELLET
COUNCIL
A NETWORK OF
BIOMASS EUROPE

COPENHAGEN MERCHANTS BACKGROUND

Copenhagen Merchants
becomes active in
shipping (now 5 million t/y)

1979

Start handling
freight for
pellets

2000

Start brokering/
trading pellet
sales

2008

Established US
terminal ops in
Brunswick and
Savannah

2011

CM Biomass
trades >2Mln
MT annually

1977

Copenhagen Merchants
formed as a commodity
trader
(now 10 million t/y)

1985

Becomes active in terminal
operations. (Now 11
terminals,
>500 kmt capacity)

2002

Pellet terminal
operations begin
in Kalundborg

2009

CM BIOMASS formed
as dedicated trading
company

2015

CM Biomass
trades >850k MT
annually

2019

CM BIOMASS IN NUMBERS



- Dedicated team of 40 professionals
- Utilizes many of the back office and logistics functions of parent, Copenhagen Merchants
- Acted as principal on over 1,500,000 MT in 2018
- **Offices globally for purchasing, sales, and execution**
- Copenhagen – DK
- St. Petersburg - RU
- Liepaja - LV
- Genoa – IT
- Houston – US
- Preferred counterparty for both industrial and premium markets. Offering integrated solutions with flexibility, dependability, storage, and expedited trade capability.

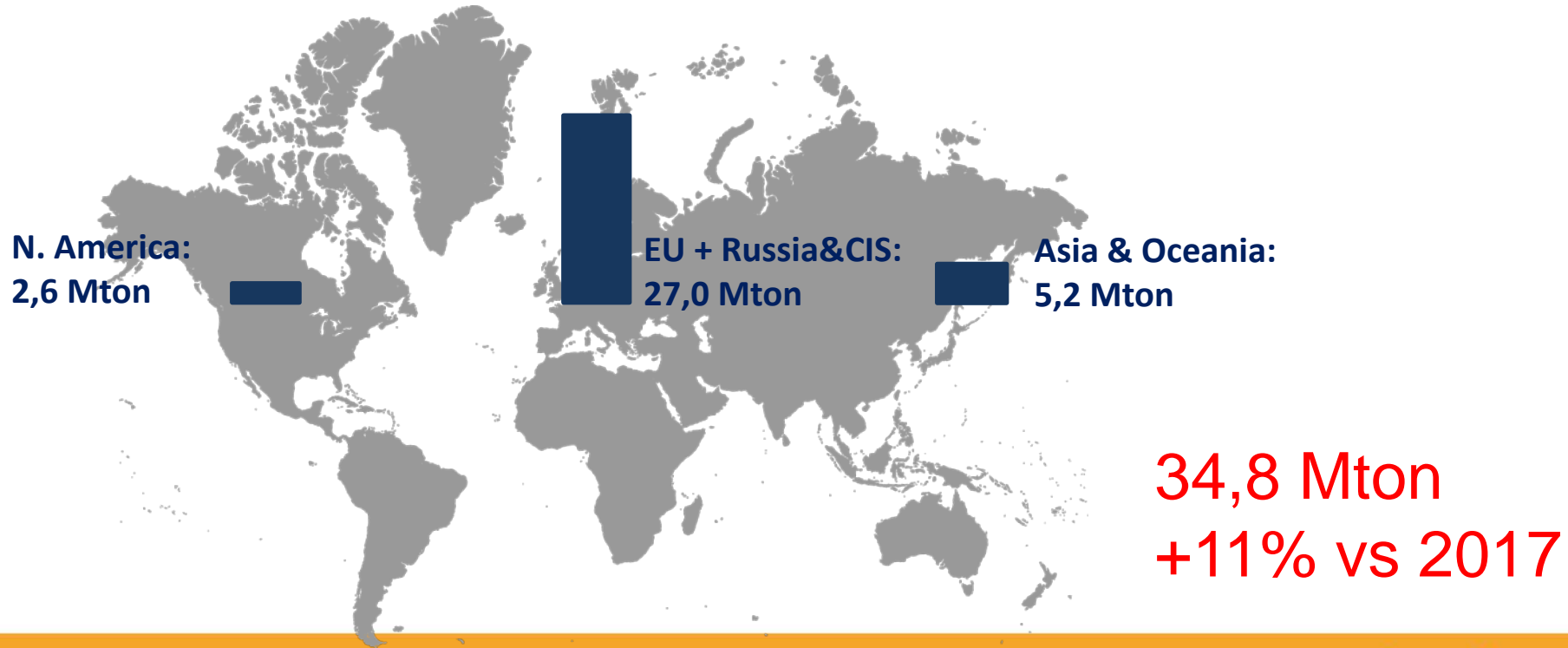
CM BIOMASS WOOD PELLET HUBS AND DISTRIBUTION

- | | | |
|---|--------------------------------|----------------------|
| 1. Petersburg, Russia | 16. Oxelösund, Sweden | 31. Arquata, Italy |
| 2. Novorossiysk, Russia | 17. Oulu, Finland | 32. Genoa, Italy |
| 3. Ventspils/Riga, Latvia | 18. Worms, Germany | 33. Carentino, Italy |
| 4. Liepaja, Latvia (CM Group terminal) | 19. Breisach, Germany | 34. Catania, Italy |
| 5. Gdansk, Poland (CM Group terminal) | 20. Eiselfing, Germany | 35. Savona, Italy |
| 6. Aarhus, Denmark (CM Group terminal) | 21. Flixborough/Grove Port, UK | 36. Savannah, US |
| 7. Grenaa, Denmark (CM Group terminal) | 22. Grangemouth, UK | 37. Tennessee, US |
| 8. Aalborg, Denmark (CM Group terminal) | 23. Ipswich/Ingham, UK | 38. Halifax, Canada |
| 9. Kalundborg, Denmark (CM Group terminal) | 24. Bristol/Avonmouth, UK | |
| 10. Fredericia, Denmark (CM Group terminal) | 25. Liverpool, UK | |
| 11. Middelfart, Denmark | 26. New Holland, UK | |
| 12. Ødis, Denmark | 27. Plymouth, UK | |
| 13. Ystad, Sweden (CM Group terminal) | 28. Flushing, Holland | |
| 14. Norrsundet, Sweden | 29. Waspik, Holland | |
| 15. Köping, Sweden | 30. Rouen, France | |



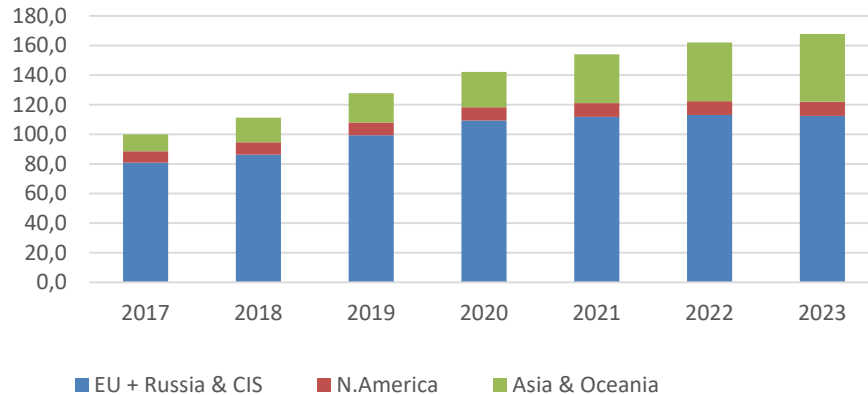
38 hubs distributed in 13 Countries

Wood pellet Consumption 2018



Global market

Global pellet demand

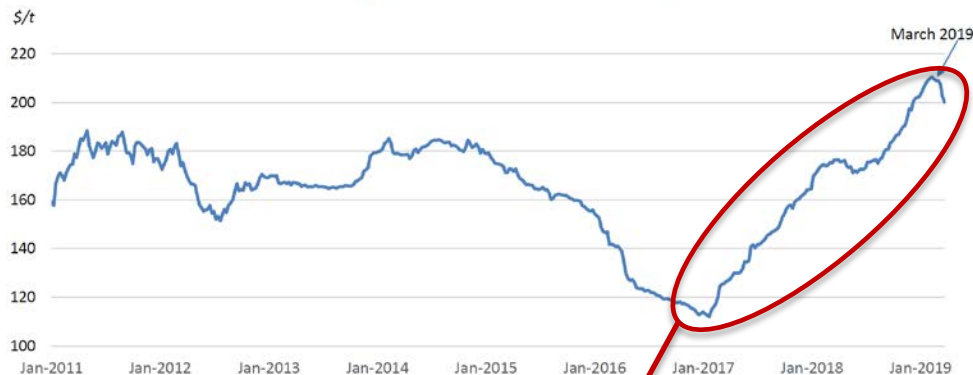


- ✓ Total demand in 2023 is forecasted +67% vs 2017
- ✓ The growth will be mostly related to the industrial market: in 2023 heating market is forecasted at +27% vs 2017 while industrial market at 112% vs 2017;
- ✓ Raw material price and availability will play an important role to keep the growth;
- ✓ The HOT SPOT is Asia (Korea & Japan) +297% 2023 vs 2017

Source: Hawkins Wright, Outlook for Pellets

Industrial market

Historical cif NWE spot index: 2011-present



2017 fires in Portugal and flooding in Baltic forest
2018 fires across B. Columbia and Hurricane in US
No big problems in power plants (few days off line)

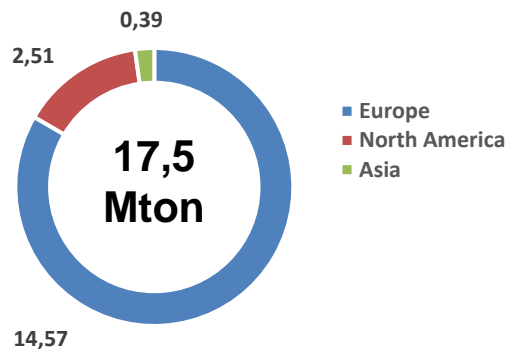
- ✓ Drivers: subsidies and enviromental political strategy (stop coal)
- ✓ Lack of flexibility:
 - A problem at large industrial user or producer can have huge impact to the whole market;
- ✓ Economics of the fuel: there is a cap above which it doesn't make sense burn pellet, during last season some utilities had to return co-firing with coal.
- ✓ Sustainability requirement, difficult to be matched from some region and demand for SPB compliant could drive the FOB price.

Source: Argus

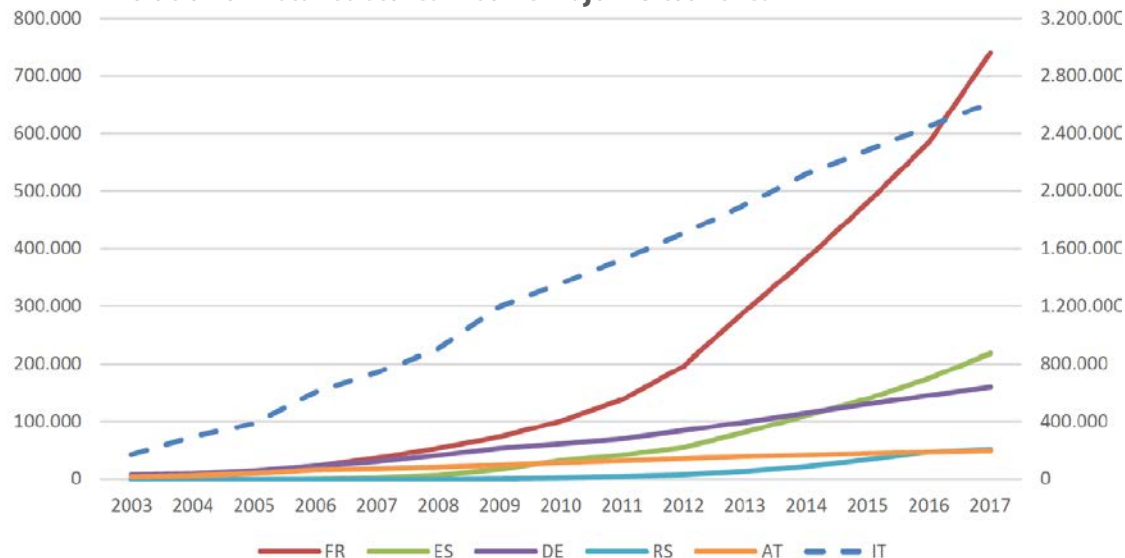
Conferencia internacional
 Mercado del Pellet doméstico

Heating market

Breakdown of global heating demand in 2018

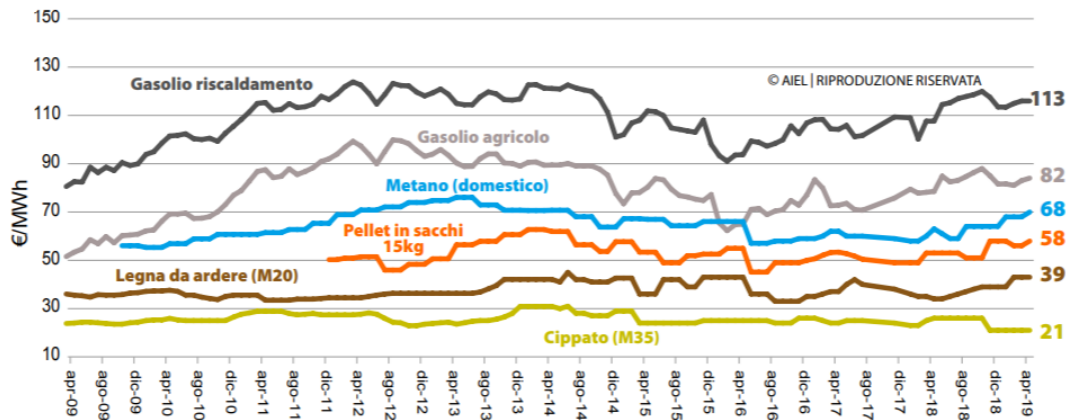


Evolution of installed stoves in some major EU countries



Source: Hawkins Wright, Outlook for Pellets and Aebi statistical report 2018

Heating market

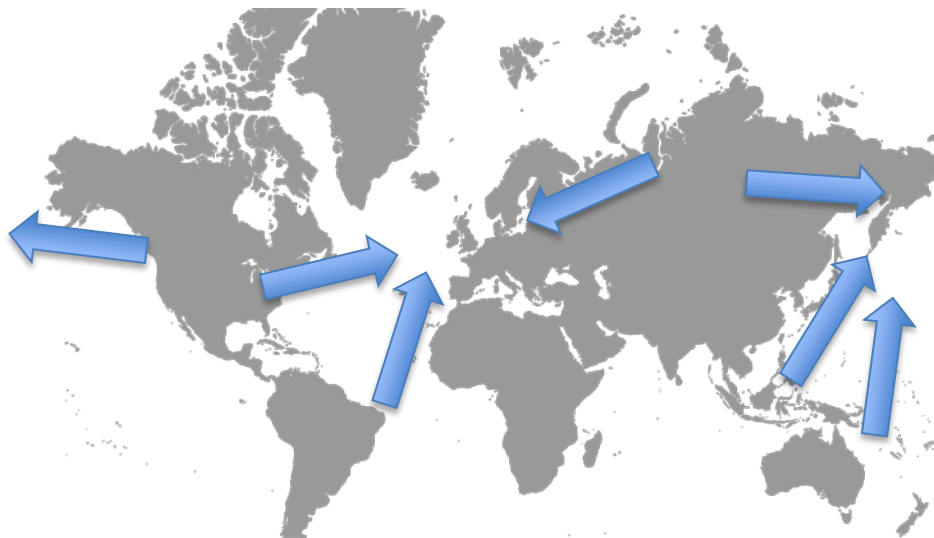


In 2018 significant growth (double digit) in Bulgaria, Ireland, Poland, Portugal and France.

- ✓ Driver: there are different incentive systems country by country, but in most of the case the pellet represents the best balance between economics and easy of use.
- ✓ EVERY COUNTRY/MARKET has it's own specific feautres: certification (EN PLUS/DIN PLUS/BSL), color (white or brown), size (6 or 8), bulk or bagged.
- ✓ Challenging market: unpredictable consumption since it's deeply related to the weather, multiple players, economics trend not directly linked with the industrial's one.

Source: AIEL

Supply/Demand balance



- ✓ Global wood pellet production capacity is estimated to be 45,9 Mton at the end of 2018;
- ✓ Global wood pellet demand of 34,8 Mton indicates a capacity utilization of 76%, and in 2019 of 85% (quite challenging);
- ✓ In Industrial market the capacity margin is quite tight and SPB is becoming more and more essential; moreover the new demand is moving from EU to Asia;
- ✓ European heating market is unpredictable: after the short of winter 2017/2018, it seems more balanced, thanks also to the increase of production in some regions (Russia and Brazil).

Today's Trading landscape

The biomass industry
has become a
minefield



.....HOW TO SURVIVE?

- ✓ DIVERSIFICATION:
 - ✓ Be present in both industrial and heating market and better in more heating markets
 - ✓ Geographical diversification of the purchasing portfolio
- ✓ FLEXIBILITY:
 - ✓ Logistic: be able to load from container, coaster till handy, train, trucks;
 - ✓ Manage warehouse both in upstream and downstream
 - ✓ Most of the suppliers with both certifications for industrial and residential markets
- ✓ Optimization and development: margins are generally tight, it's mandatory to look always for optimization/sinergies and always trying new ideas, keeping in mind that.....

.....WHAT WORKS TODAY WON'T WORK TOMORROW!!

Thank you :: Gracias

- Speaker Name :: Paolo Moscone
- ORGANIZATION :: CM Biomass Partners A/S
- Email:: paolo.moscone@cmbiomass.com