

OVERVIEW OF THE PELLET MARKET IN THE BALTIC STATES

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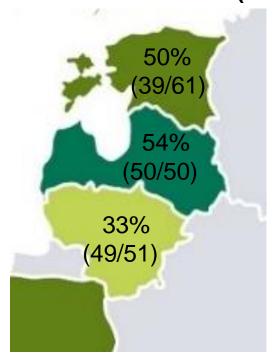


Polish Pellet Forum

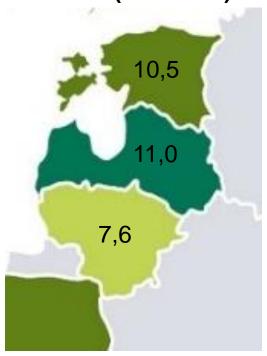
19-20 September 2016, Rawa Mazowiecka, Poland

FOREST RESOURCES IN THE BALTIC STATES

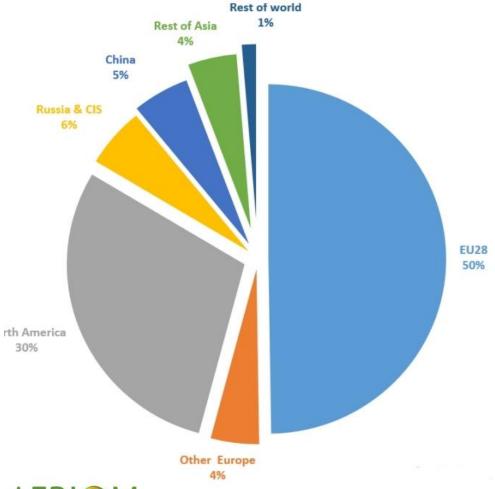
SHARE OF FOREST AND OWNERSHIP RIGHTS (S/P)



ANNUAL ROUNDWOOD CUT (MILL. M3)

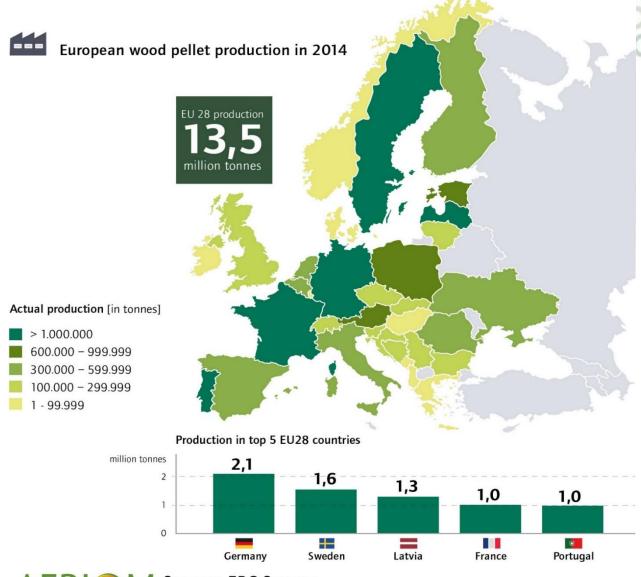


World wood pellet production shares in 2014 (in %)





Source: EPC Survey, Hawkins Wright Copyright © 2015 European Biomass Association (AEBIOM)





Source: EPC Survey

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BALTIC PELLET PRODUCTION SHARE IN EU MARKET IN 2014 2,65 MILL TONS = 20%

ESTONIA (16 PLANTS/1 MILL TONS/7,4%)

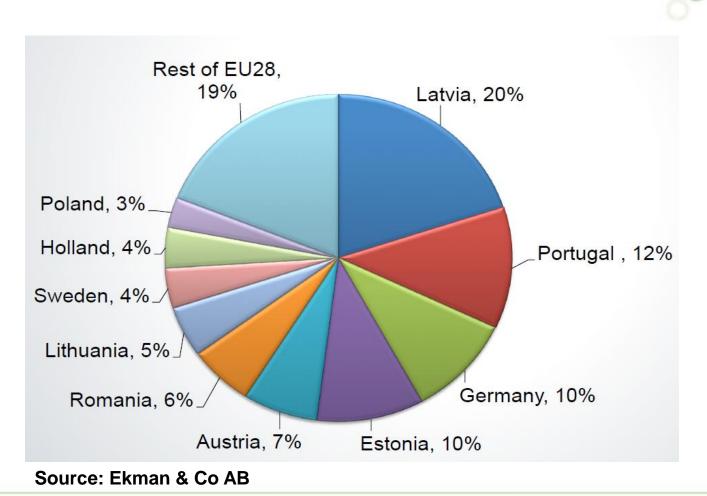
LATVIA (23 PLANTS/1,35 MILL TONS/10%)

LITHUANIA (10 PLANTS/0,3 MILL TONS/2,2%)

OTHER EU COUNTRIES (10,85 MILL TONS/80%)



EU WOOD PELLET EXPORTS IN 2014 BALTIC STATES SHARE – 35%





DRIVING FORCES FOR BALTIC PELLET MARKET

- GROWING DEMAND FOR PELLETS IN DOMESTIC AND INTERNATIONAL MARKETS
- SUFFICIENT AVAILABILITY OF RAW MATERIAL RESOURCES
- ABILITY TO DEVELOP LONG-TERM RELATIONS WITH CUSTOMERS
- AVAILABILITY OF BIG PORTS FOR SEA TRANSPORTATION
 Parnu, Kunda, Paldiski, Tallinn (ESTONIA)

Riga, Ventspils, Liepaja (LATVIA) Klaipeda (LITHUANIA)



BALTIC PELLET DOMESTIC MARKET

- EXPORT ORIENTED DOMETIC CONSUMPTION IS RELATIVELY SMALL
- DOMESTIC MARKET MAINLY DOMINATED BY PREMIUM PELLETS AND SMALL CONSUMERS (private households, schools, hospitals, etc.)
- THERE IS AN UNUSED POTENTIAL FOR INCREASING DOMESTIC CONSUMPTION ESPECIALLY FOR INDUSTRIAL GRADE PELLETS
- FACTORS LIMITING USE POTENTIAL:

 Wide use of cheaper biomass alternative wood chips

 Renewable energy targets for 2020 already reached

IS BALTIC PELLET MARKET MATURE OR EMERGING?

- LACK OF DOMESTIC EQUIPMENT PRODUCERS/ CONSULTANTS/ EXPERTS
- LACK OF BIG DOMESTIC CONSUMERS
- THE REGION PRESENTS A LARGE SHARE OF FOREST LANDS AND UNUTILIZED POTENTIALS FOR THE PROVISION OF WOOD ENERGY
- STRONG INVESTMENTS HAVE LATELY BEEN MADE WITH NEW PLANTS BEING BUILT AND CAPACITY OF EXISTING PLANTS BEING INCREASED



KEY FIGURES ABOUT GRAANUL INVEST

2004

YEAR OF ESTABLISHMENT



OVER 2 000 000 TONS OF WOOD PELLETS ANNUALY



11 PELLET PLANTS

5 CHP PLANTS



632 EMPLOYEES



11 PELLET PLANTS

ESTONIA

LATVIA

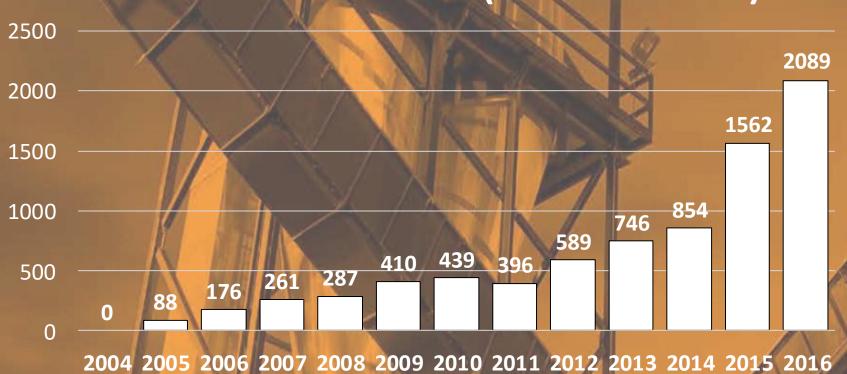
LITHUANIA



PELLET PLANT CAPACITY VARIES FROM 85'000 TONS/ANNUALY (ALYTUS, LITHUANIA) TO 350'000 TONS/ANNUALY (OSULA, ESTONIA)

TIMELINE OF PELLET PRODUCTION

PELLET PRODUCTION (thousand tons)



GREEN ENERGY PRODUCTION AND FORESTRY

5 CHP PLANTS



TOTAL CAPACITY 30 MW INCREASE TO 40 MW BY THE 2017

3 FORESTRY COMPANIES



QUALITY-ORIENTED PRODUCTION



ISO 9001:2015



ISO 14001:2015



ISO 18001:2007



ISO 50001:2011















