

AEBIOM

EUROPEAN BIOMASS ASSOCIATION

www.aebiom.org

Will perennial crops take off in Europe ?

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About AEBIOM European Biomass Association

- Represents and promotes interests of bioenergy stakeholders
- 30 national associations
- About 80 associated companies
- Activities: lobbying, workshops, newsletters, European projects, working groups, conferences and networking, etc.
- Based in Brussels in the Renewable Energy House
- Member of EREC (European Renewable Energy Council) and WBA (World Bioenergy Association)





Annual report 2010



Member's catalogue



www.pelletcouncil.eu



Annual Statistical report



The need for energy crops

Around Europe

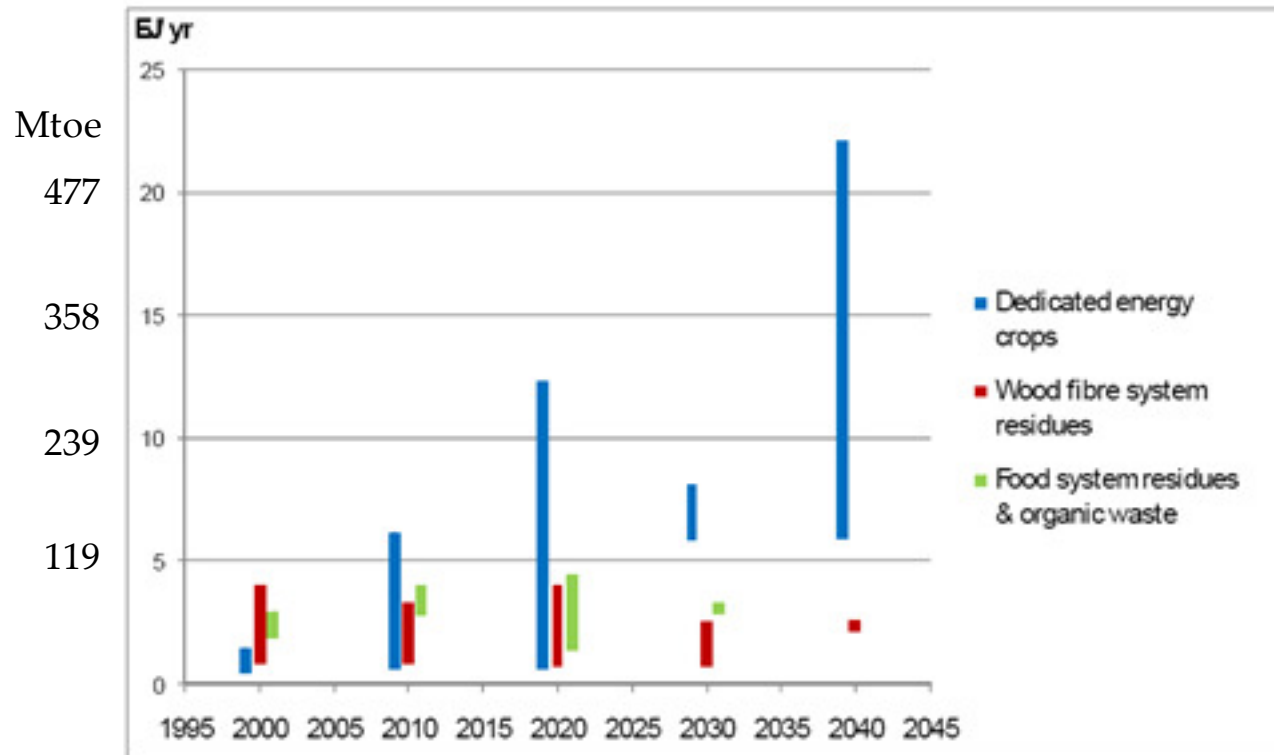
Conditions for take off

Conclusion



Biomass potential

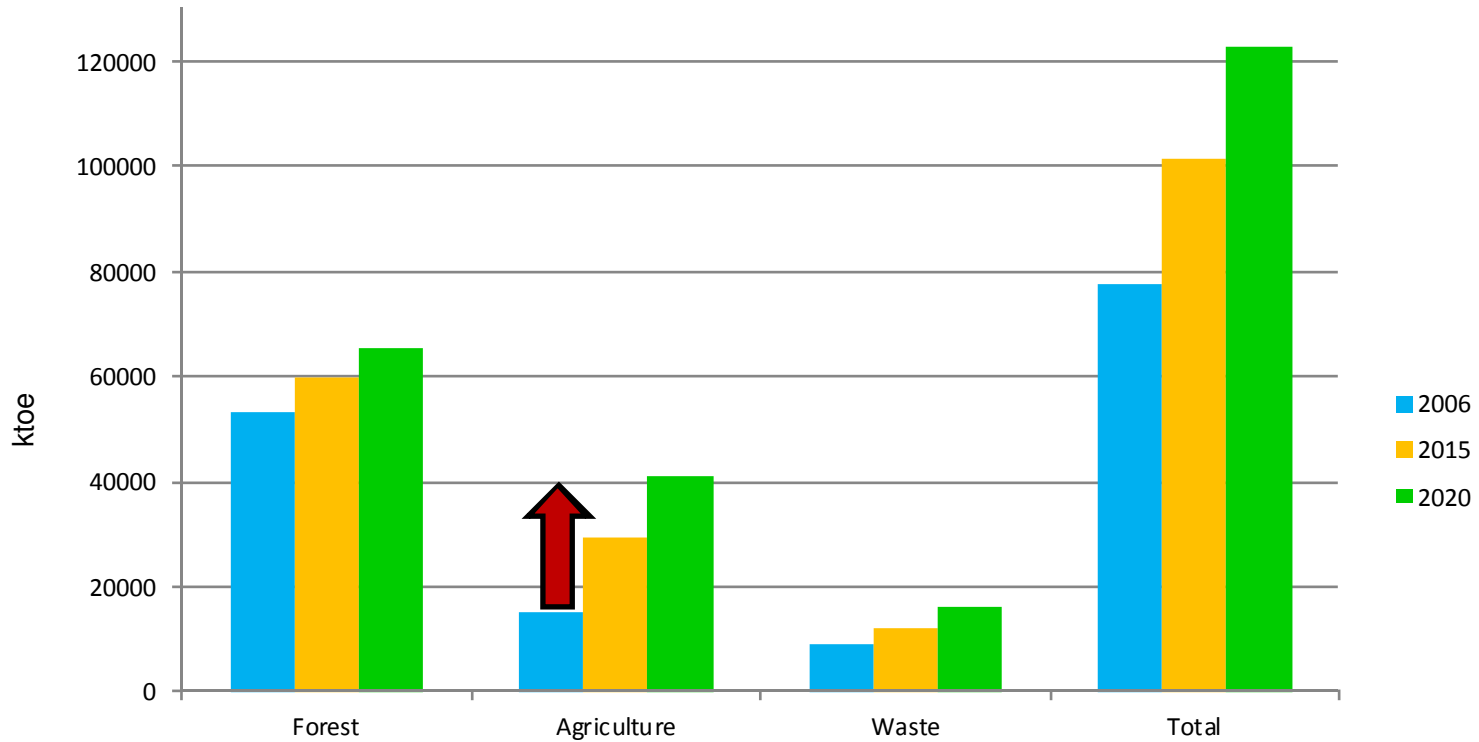
Biomass Potential for EU 27 – BEE project



Source : DG Agri, from BEE, 2008



Biomass supply in EU 27



Source : nREAP, AEBIOM calculation

Note: Gross inland consumption in 2006 and primary energy production in 2015 and 2020



Statements

- *The potential biomass from agriculture is high*
- *Members States expect highest increase of biomass supply from agriculture*



Energy crops around Europe

Sweden

Hemp – 250 ha
Willows – 12000 ha (decreasing)
Reed Canary Grass – 800 ha

CO2 tax of about 100 €/t
Large market/demand for biomass
Support scheme for SRF plantation
(500 €/ha now)



Finland

Reed canary grass – 18000 ha (decreasing)

Large market/demand for biomass
Mix with peat
Emission Trading → biomass as zero emission factor



United Kingdom

Willows – 4-7000 ha
Miscanthus – 10-17000 ha (increasing)

Limited wood resources
Energy crop support schemes (800 – 1000 £/ha)
ROCs for electricity- advantage for crops



Energy crops around Europe

France

Willows - 500 ha
Miscanthus - 1500-2000 ha

Sugar reform fund (64 M€ available) → drying pulp
Diversification from alfalfa → pellets
Waste water treatment/water table protection/sewage sludge



Denmark

Willows - 2500 ha

High biomass price



Germany

SRC - 300-1000 ha
Miscanthus - 1500 ha

Electricity support schemes and bonuses
Advanced biofuels/security of supply



Energy crops around Europe

Austria

SRC – 1000 ha

Miscanthus – 800 ha

Market for biomass/pellets
Feed-in price for bioelectricity/biogas



Italy

Miscanthus – 7500 ha

SRC – 6000 ha

Electricity support schemes
Sugar reform



Poland

Willows – 5-9000 ha

Agriculture potential
Legislation on biomass for power



Energy crops around Europe

Ireland

Miscanthus – 2600 ha

Willows – 1100 ha



Spain

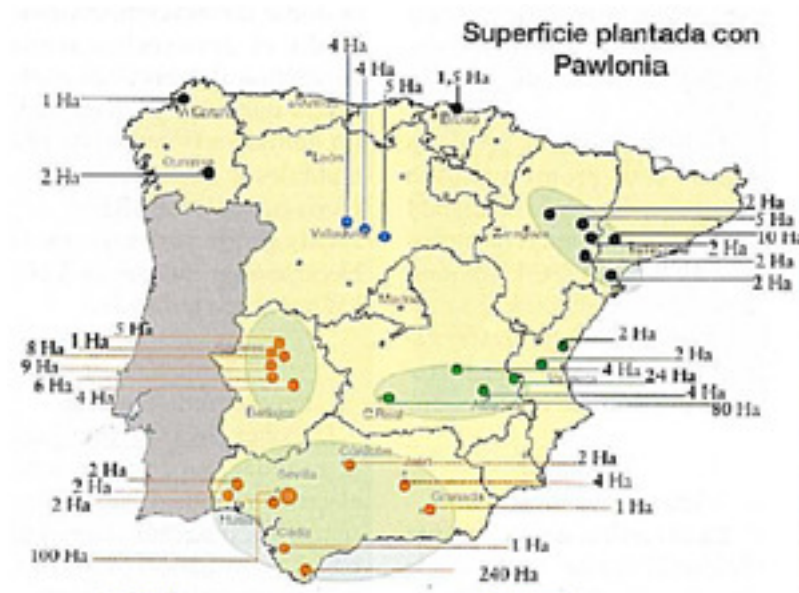
Pawlonia - trials

Security of supply

Romania

Willows – 50 ha

Land potential



Statements

- *Many national initiatives with diversified driving forces*
- *Crops production technically OK, but stagnating surfaces*



Take off IF ...

Farmer's acceptance

- Economy – competitiveness with other crops
- Technically affordable → contractors
- Psychologically acceptable → annual better than pluriannual, grass better than wood

User's acceptance

- Economy – competitiveness with other biomass sources
- Quality → agrofuels still difficult fuels

Policy Vision

- Food / non food, iLUC → way out ?
- EU policies → CAP priority for next period ?
- National level → CAP Rural Development



Build on opportunities

- **High yield** / low input
- Initiatives by **bioenergy producers** → security of supply
- **Marginal land** → but lower yield
- **Sustainability** → CAP - Rural Development (why not going for a mandatory measure !)



Conclusions

Conditions are currently NOT fulfilled for energy crops to take off large scale, but there are opportunities to exploit.

Thank you for your attention

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