



European Biomass Industry Association

Bioenergy in the future

World wide perspectives

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Overview

- **Background**
 - **Problems**
 - **Opportunities**
 - **World biomass statistics**
 - **General framework of activities**
 - **Conclusions**
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Background

Problems

- Security of supply (shortage of refining capacity)
- Energy shortage and political imbalance
- Environmental constraints
- Desertification
- Water availability and cost

Opportunities

- Biomass addresses all energy markets
 - Biomass is a clean resource
 - Biomass can help against desertification
 - Biomass : efficient resource for desalination with new technology
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Problems

- Energy shortage and political imbalance
 - World demand quickly growing
 - Essential commodity concentrated in a few countries
 - Environmental constraints
 - Emissions
 - Soil fertility conservation
 - Desertification
 - Each year 6 mio ha increase
 - Water needs
 - Very serious problem in the future
 - Essential for growing biomass
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Opportunities

- Biomass addresses all energy markets
 - Heat and power
 - Transport fuel (other RES are less suitable)
 - Chemical
 - Biomass is clean in many ways
 - CO₂ neutral
 - No elements like SO₂ , ...
 - Biomass can help against desertification
 - Energy crop grows quick with less inputs
 - New desalination technology (energy saving)
 - Needs only heat at low temperature: biomass can provide this
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World biomass statistics

Item	Bio TOE (per year)
Stock	370
Production	80
Residues potential (year 2100)	6.6
Total energy consumption (at present)	9.6
That is about 5 liter OE per person per day	

General framework of activities

- Co-operation bioethanol Project in **Romania**
 - Co-operation with **Russia**
 - Co-operation with **China**
 - Bioenergy for rural development
 - Transportation biofuels
 - Co-operation with **Brazil**
 - New pelleting technology
 - Co-generation
 - Biomethanol
 - New distillation technology
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Bioethanol Project in Romania

- Starts with 20 000 ha Sweet Sorghum
 - Romanian actors
 - Biomass association Romania, land owners, industry
 - Main market: big contract with Germany
 - Play ground for many countries
 - China, Russia, Brazil, several European countries, Africa (W.B.)
 - They invest and learn from a unique project
 - Agreement in preparation
 - Large replication potential where tropical or temperate climate
 - Ethanol is world commodity (quoted since few months)
 - Transport (many mio's of cars running on it, most in Brazil)
 - Distributed cogeneration, leading to rural development
 - Sweet Sorghum is a new promising energy crop
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Co-operation EUBIA with Russia

Main areas

- Advanced conversion technologies
 - Technological packages
 - instruments for rural development
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Thank you
for your attention

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