

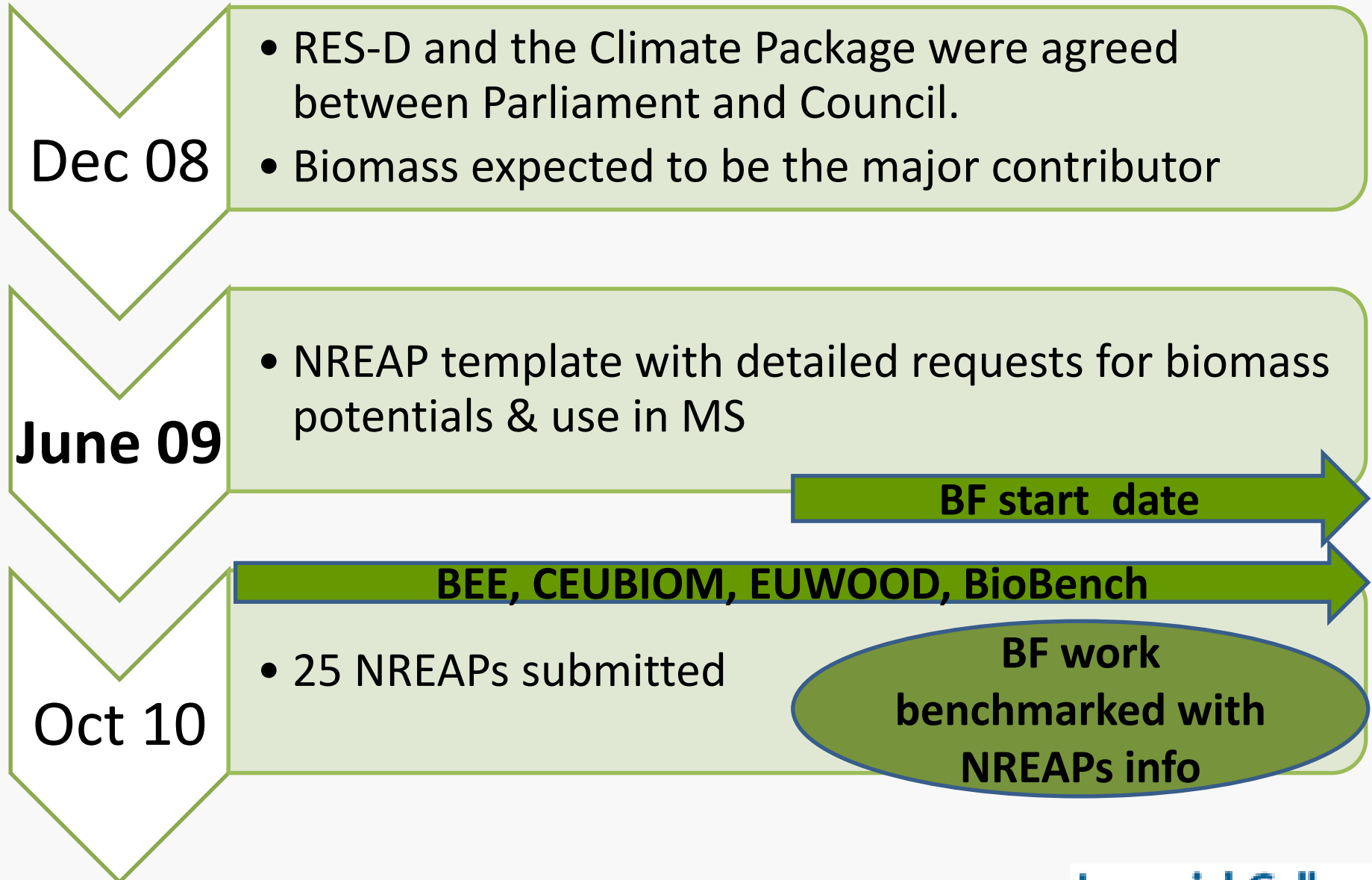
How can Biomass Futures results assist the bioenergy policy agenda?

*Biomass Futures Final policy workshop, 20 March 2012,
European Parliament, Brussels*

Calliope Panoutsou, Imperial College London

- State of play when Biomass Futures started
- Policy today
- Outputs
- Relevance to Supply policies
- Relevance to Demand policies
- Relevance to MS policies

State of play when Biomass Futures started





**CEUBIOM - Classification of European Biomass
Potential for Bioenergy Using Terrestrial and Earth
Observation**

www.ceubiom.org

Contacts: Manuela Hirschmugl, Joanneum Research, manuela.hirschmugl@joanneum.at
Peter Gyuris, Geonardo, coordinator@ceubiom.org



BEE - Biomass Energy Europe

www.eu-bee.com

Contacts: Matthias Dees, University of Freiburg, matthias.dees@felis.uni-freiburg.de
Barbara Koch, University of Freiburg, barbara.koch@felis.uni-freiburg.de

- Both projects objective:
Contribution to the harmonisation of the assessment of the potential of biomass for energy in EUROPE (focus on methodologies)
- **Close collaboration between Biomass Futures, BEE & CEUBIOM**
- A **joint publication** of major project results is in preparation

Project Outputs

- **Market segment analysis**: H, EI/CHP and T markets (EU27 and UK, DE, NL, AT, EL)
- Spatially explicit **sustainable biomass cost supply patterns incl. imports** (EU27 and MS)
- Assess **biomass role** (MS level) in the heat, electricity- CHP and transport sectors, in the framework of the RES-D **compared to NREAPs**, using;
 - Different demand scenarios, timeframes (2020- 2030) and sustainability constraints.
- Improved comprehension & development of criteria for indirect land use change, water, air and soil quality as well as social issues, and their impacts on biomass availability and costs.
- **Continuous stakeholders consultations** to ensure the market perspective in relation to biomass demand and supply;
- Involve policy stakeholders to discuss concerns and key on-going issues as well as ensure information transfer throughout the project

Biomass Futures: Relevance to Supply policies



- CAP Pillar 1 (agricultural support)
- CAP Pillar 2 (Rural Development Policy)
- Forestry Action Plan
- Waste Framework Directive

Which is the cropped biomass potential (species, yields, costs, land use maps)?

Which is the amount of forest & waste biomass that can be sustainably used for H, EI/ CHP & Tr for 2020 & 2030 (MS disaggregation)

Policy issues relevant to Supply

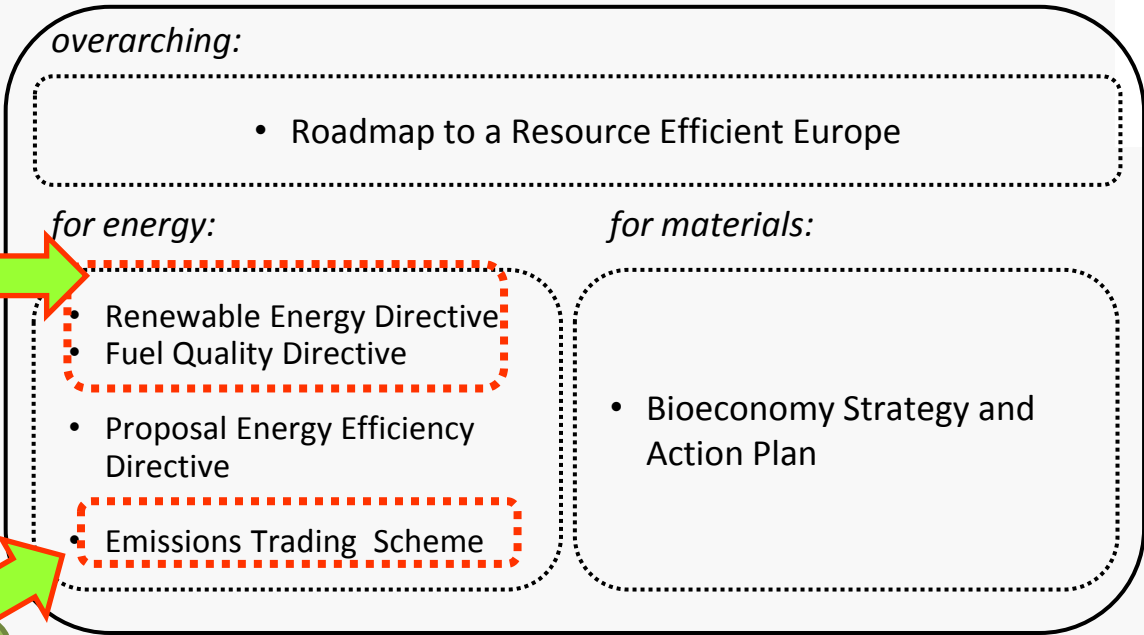
- Target resource efficiency
- **Residual/ waste feedstock types:** supply will remain a regional issue which requires regulatory, analytical & practical implementation frameworks
- **Cropped biomass:** perennials can be grown on lower quality land, reduced iLUC, they could actually help “remove” the seasonality burden in a region; Plus they can add value to local economies- they could be a more sustainable option to imported biomass.
- **Policies** should deliver clear messages regarding to the categorisation & prioritisation of land (accounting among other issues for biodiversity & ecosystem services).

Biomass Futures: Relevance to Demand policies

Market analysis involving stakeholder consultations
 Domestic & imported biomass share in RE- H, RE- E & RE-T
 Costs (direct and in comparison with fossil competitor)
 Comparison with demand in NREAPs

Biomass Demand

Addressing conflict among sectors
 Most promising technology & fuel options
 3 scenarios/ 2020 & 2030



Cofiring shares with MS
 disaggregation

Policy issues relevant to Demand

- More **stimulation** towards the most efficient & cost effective pathways.
- **Match the industrial demand** to attract investment in Europe & create/ maintain markets
- Policy alongside market driven measures
- Demand for biomass is now driven by sectoral demands, this is not always a sustainable starting point; in future policy formation it should be driven by **most efficient scale- technology combinations**.

Biomass Futures for MS

Relevance to MS policies

Validate national sustainable supply data for NREAPs

Prioritise indigenous biomass value chains for energy & fuels



Policy issues Relevant to MS

Design national policy accounting both for upstream & technology combinations aiming to best address their indigenous feedstocks & market requirements.

Focus on sectoral policy & regulatory frameworks

Benchmark with MS that have relevant policy experience in the relevant market segments & sustainable supply.

The Team



BIO**MASS** FUTURES

www.biomassfutures.eu

Thank you

Dr Calliope Panoutsou
Centre for Environmental Policy
Imperial College London
c.panoutsou@imperial.ac.uk