

Sustainability principles and criteria for biomass for energy

– preliminary results from Bioenergy Promotion



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Bioenergy Promotion

- Project Objectives
- The project aims to strengthen the development towards a sustainable, competitive and territorially integrated Baltic Sea Region in the field of sustainable use of bioenergy.
- Collaboration between 34 participating partners from ten countries around the Baltic Sea:
 - Belarus; Denmark; Estonia; Finland; Germany; Latvia; Lithuania; Norway; Poland and Sweden.



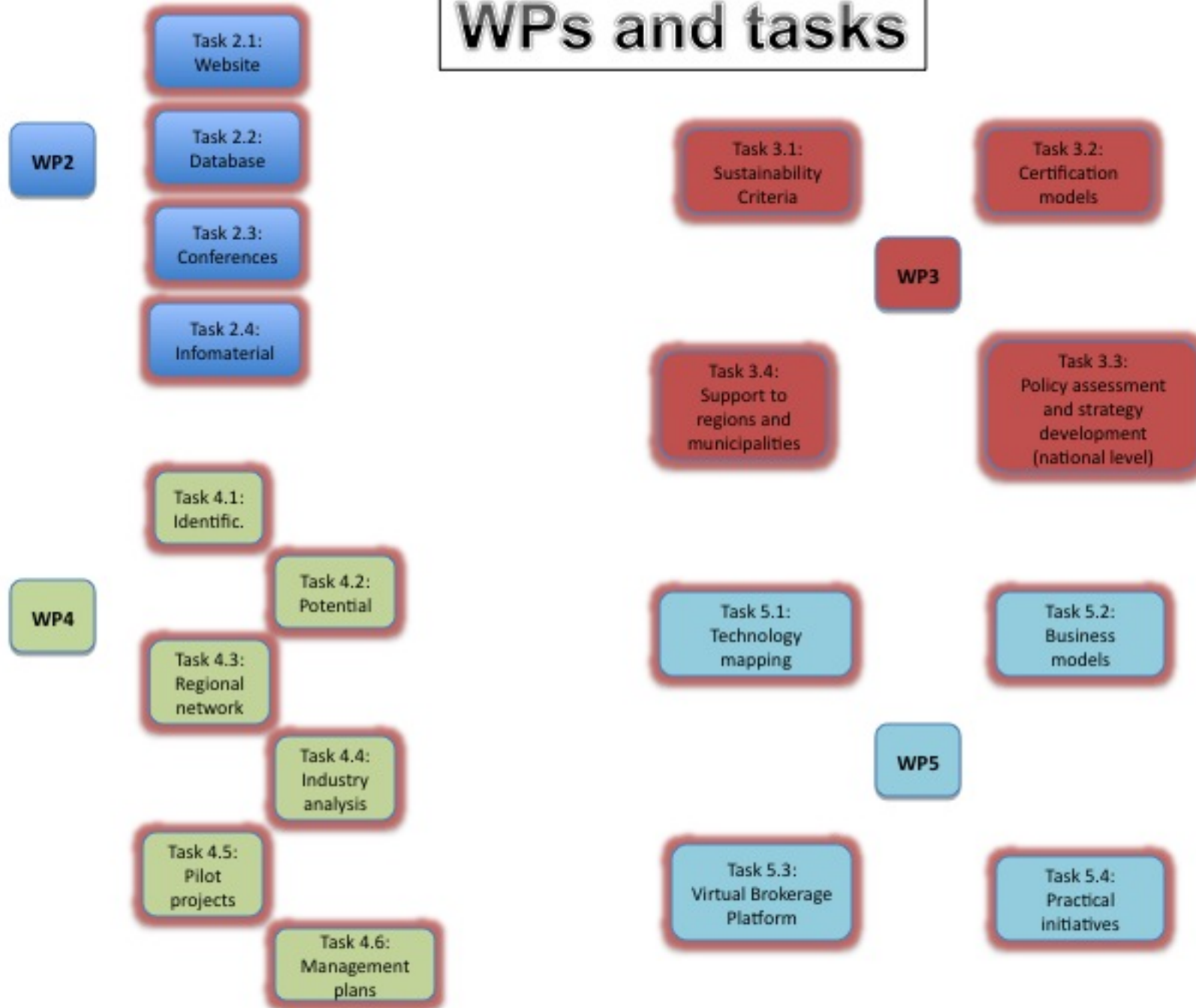


Bioenergy Promotion

- The Project runs from 2009 to 2011
 - The Swedish Energy Agency coordinates the project,
 - Part-financed from the EU Baltic Sea Region Programme,
 - Total budget of about 5 million Euros
- www.bioenergypromotion.net



WPs and tasks



Task 3:1 – Criteria and principles

- Sustainable bioenergy production, Defining principles and criteria
- A document being a tool and guidance for reaching sustainable systems for Bioenergy production in the Baltic Sea region and possibly beyond.



The Process

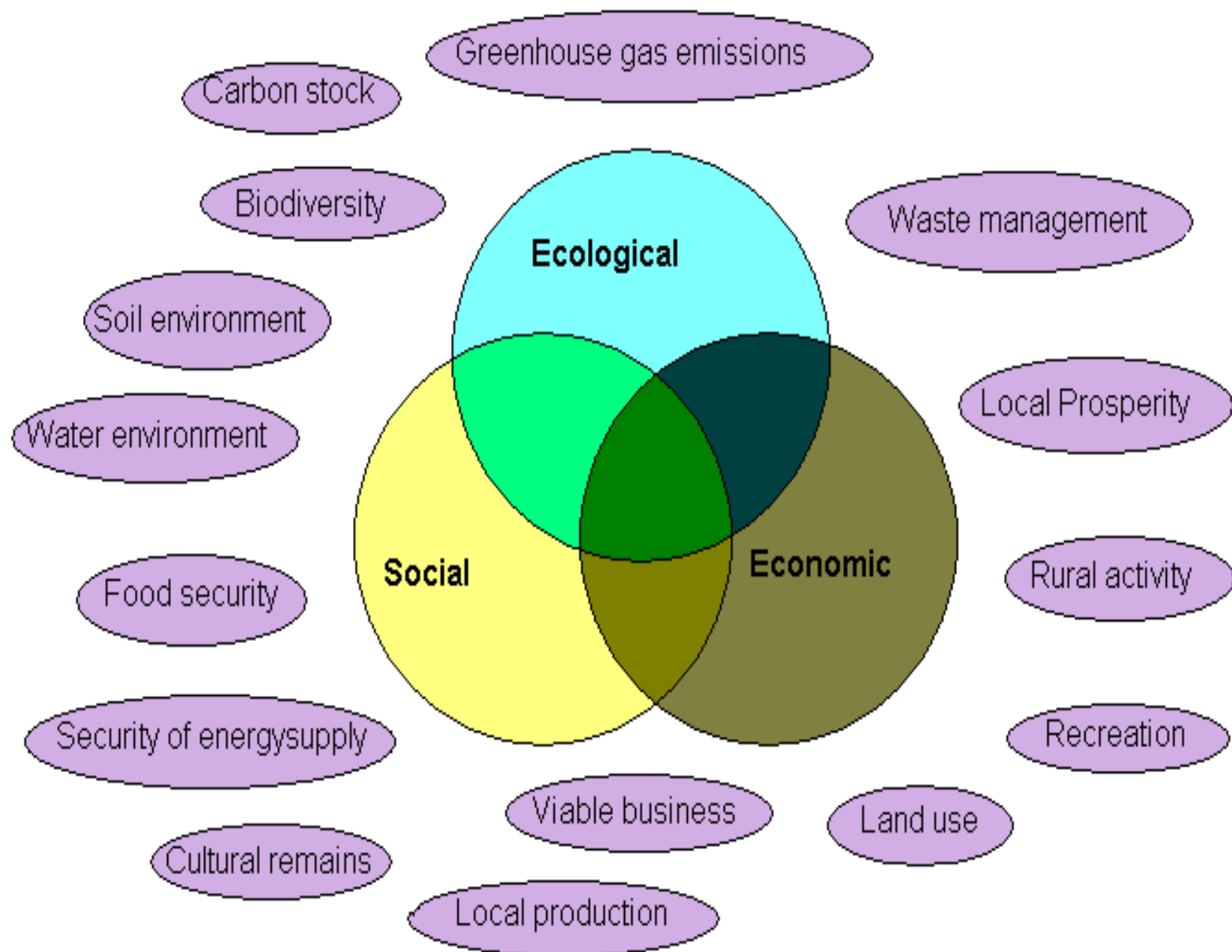
- Two workshops with work and correspondance in between
 - Many ongoing processes to adjust and relate to
- The fifth draft was presented yesterday
- Final adjustments before finalising the document in May 2010.



EU - Legislation

- Directive 2009/28/EC states criteria which we cannot go beyond
- Only valid for biofuels for transport and other liquid biofuels
- The Commission have decided that binding criteria for the use of biomass specifically for energy purposes is not an option. Instead we should focus on a wider policy framework for biomass sustainability.
- The Commission recommend Member States to, as far as possible, use the already existing criteria in the RES directive.





Principles Criteria Indicators

Principles are the general starting points and describe the objective aimed at.

The criteria translate this objective into measurable requirements.

The indicators are the parameters by which the measuring is done.





- Biodiversity
- Resource efficiency
- Energy Efficiency
- Climate mitigation efficiency
- Social aspects
- Economic issues



Biodiversity

- Biomass production shall not endanger biodiversity at the landscape level.
- Special considerations to threatened species shall be taken at the local level.
- Biomass production shall strengthen biodiversity and contribute to an increased variation in the landscape.



Resource efficiency

- Natural resources such as soil, water and land, shall be used efficiently.
- Biomass production or extraction shall not endanger soil status or cause further deterioration of water quality and quantity.



Energy efficiency

- Energy balance shall be considered, the use of fossil energy sources during production of bioenergy should preferably be avoided.
- Input energy shall be minimized throughout the whole production chain and be distributed and accounted for on all products.



Climate mitigation efficiency

- Greenhouse gas emissions from bioenergy production and use shall be minimized.
- Biomass production shall not endanger important carbon stocks.
- Greenhouse gas emissions caused by land-use change shall be low in relation to the emissions that can be avoided in a long-term perspective.



Social aspects

- The production and use of biomass for energy shall not endanger food security or local production of biomass for other applications.
- Bioenergy production should not endanger the conservation of cultural remains and heritages or prosperity of local communities and cultures.



Economic issues

- Bioenergy production, extraction and use should contribute to an increase in rural activity and to the development of viable business and security in energy supply.



Thanks for your attention!

- For more information, questions or comments,
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Indicators

- Indicators shall provide information of trends and developments and whether or not the principles are fulfilled.
- We do not suggest any methods for how to apply the indicators, merely what to be measured.
- Development of methods for how to use the indicators should be done at the national level.

