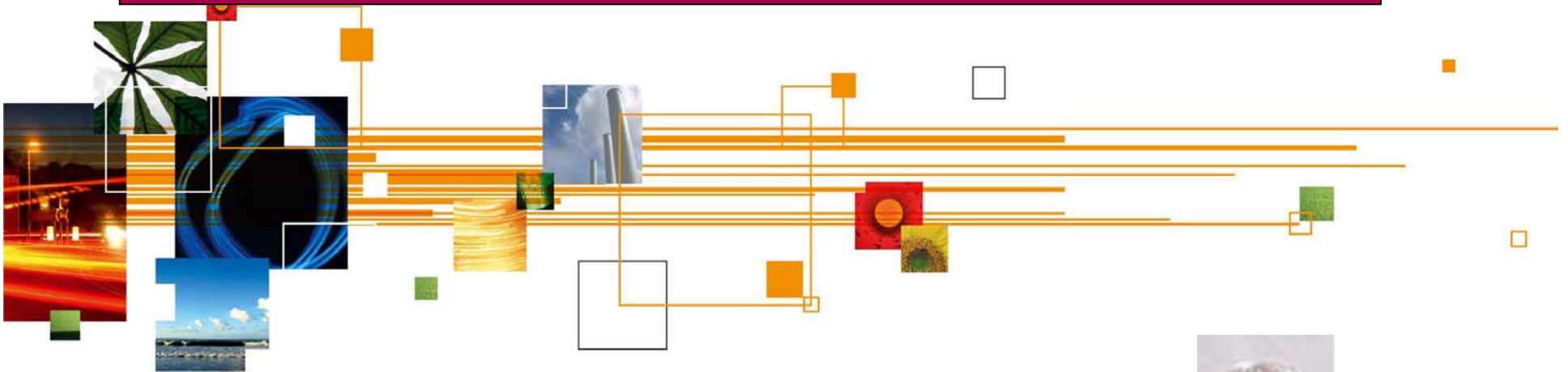


# Energy Transition

## Criteria for Sustainable Biomass Production



By: Prof. Jacqueline Cramer





# BIOMASS AS A SOURCE FOR SUSTAINABLE ENERGY

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Utilization in chemicals, transport and energy: major opportunities

But also risks.....

Possible harm to nature and environment and negative social and economics consequences for local communities



## Need for Criteria

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Netherlands has a large import of Biomass for power

Environmental groups and parliament concerned about sustainability of biomass

- palmoil from Malaysia
- bioethanol in future from Brasil

Minister offered a solution by sustainable criteria

Eventually to be implemented in national legislation



## ASSIGNMENT of Projectgroup

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- Establishment of a project group:  
‘Sustainable production biomass (government, industry, financial institutes and NGOs, supported by experts) in January 2006,  
Report July 2006
  - Long term vision on sustainable produced biomass
  - Consultation of stakeholders (survey, meetings)
  - Formulation of testable criteria which can be used within policy instruments for biofuels and financial support of power
  - Start process of certification



## POINTS OF DEPARTURE

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- Universal, generic framework of criteria
- Connection with international initiatives and WTO regulations
- Testable criteria required; if not possible, a compulsory report including a protocol proposed
- Minimum Standards and long term Perspective



## POINTS OF DEPARTURE (2)

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- Valid for residues and cultivated biomass
- No discrimination between biomass produced in the Netherlands and imported biomass
- Testing must be manageable
- Dialogue with local stakeholders is compulsory



## MINIMUM CRITERIA

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2007: comply with present international obligations and local jurisdiction, in addition to other specific indicators.  
Obligatory reports when indicators are lacking.

2011: comply with specific indicators and active conservation.  
Indicators are developed on the basis of the obligatory reports of the first period.



## SELECTION OF CRITERIA AND INDICATORS

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- **Greenhouse gas balance**
- **Competition with food, local energy supply, medicines and construction materials**
- **Biodiversity**
- **Prosperity**
- **Welfare**
- **Environment**





## GREEN HOUSE GAS BALANCE

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- **Nett emission reduction related to fossil fuels of at least 30% in 2007 and 50% in 2011**
- **Testing with a specific methodology**
- **Whole chain is taken into account**



## COMPETITION WITH FOOD I.E.

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- **Availability of biomass for food, local energy supply, medicines and construction materials**
- **For 2007: Reporting obligation on the basis of a Protocol (to be developed)**
- **For 2011: Availability must not decrease  
Comply to specific indicators**



## BIODIVERSITY

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- **No harm done to protected areas or valuable ecosystems in 2007; in 2011 also active protection**
- **Plantations may not be developed in or in close area to protected areas or valuable ecosystems. Year of reference depending on type of biomass.**
- **For other aspects: Obligatory report (including protocol) in 2007**
- **In 2011: comply to specific indicators for other aspects**



## ECONOMIC PROSPERITY

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- **No negative effects on the regional and national economy in 2007; in 2011 also an active contribution to the enhancement of local prosperity**
- **Obligatory reports (including protocol) on the basis of among others GRI in 2007**
- **Comply to specific indicators in 2011**



## WELLBEING

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- **No negative effects on the wellbeing of workers and local community in 2007 with specific attention for:**
  - Working conditions
  - Human rights
  - Right of ownership and user rights
  - Social conditions, and
  - integrity
- **In 2011 also active contribution to social conditions**



## WELLBEING (2)

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- **Working conditions : SA 8000 en ILO**
- **Human rights: Universal Declaration for Human Rights**
- **Right of ownership and user rights: FSC/RSPO**
- **Social conditions: obligatory reports (including protocol) in 2007 and specific indicators in 2011 (including active support)**
- **Integrity: Business Principles for Countering Bribery**



## ENVIRONMENT

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- **No negative effects on the local environment related to:**
  - **Waste management: comply to local/national jurisdiction in 2007 and 2011**
  - **Use agro-chemicals (including fertilizer): comply to local/national jurisdiction in 2007 and EU legislation in 2011**
  - **Prevent erosion and exhaustion soil: obligatory reports (including protocol) in 2007 and specific indicators in 2011**



## ENVIRONMENT (2)

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- **Preservation quality / quantity of ground- / surface water: obligatory reports in 2007 and specific indicators in 2011**
- **Emissions to air: comply to local/national legislation in 2007 and EU legislation in 2011**





## WTO

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Compliance with WTO has been studied and concluded:

- Criteria difficult to apply in laws and regulations, except for CO2 criteria
- Voluntarily instruments more suitable
- Need for bilateral agreements (covenants)
- Further investigations and negotiations will be carried out



## Next Steps

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- Elaboration of Protocols for reporting obligations
- Dialogue with local stakeholders
- Determining calculation methods for greenhouse balance (30 october Amsterdam)
- Identification of pilot projects
- Starting Certification Proces

More information?

[k.kwant@SenterNovem.nl](mailto:k.kwant@SenterNovem.nl)