

The Biomass transition project in the Netherlands

Presentation by

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Subject in the presentation

- Reasons for the transition project
- Structure of the project
- The agenda
- Co-operation between industry, NGO's and government
- The shared Vision

Reasons for the transition project

- Biomass robust element in long term scenario's of Ministry of Economic Affairs (>> and Greenpeace and Shell)
- Biomass complex subject (sources, products, sustainability and economy)
- Lively debate between industry, NGO's and government

Lively debate

Green energy stinks!



WWF: save the polar bear with green energy

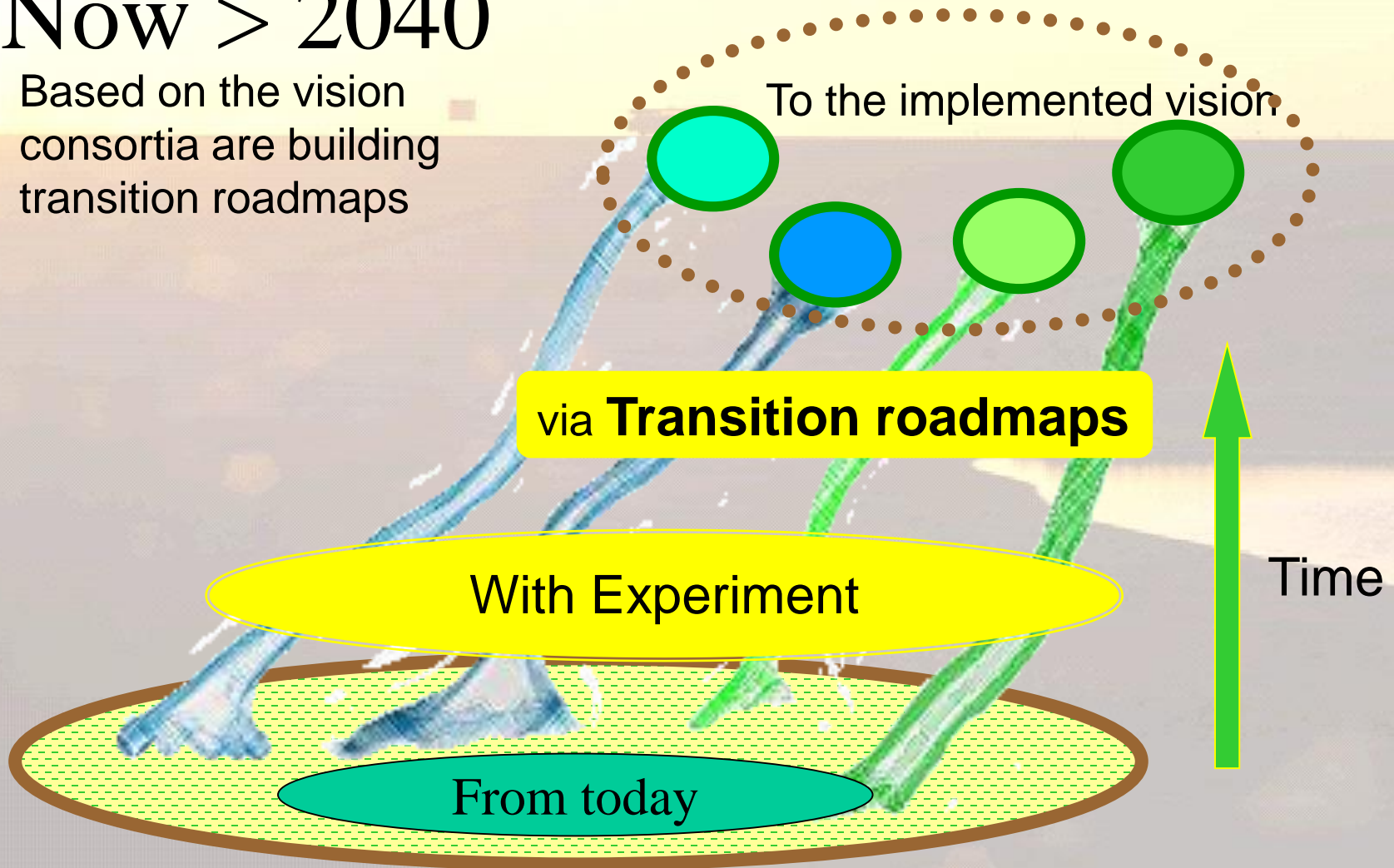


Structure of the project

- Scouting project 2002 >> positive advise
- Joint long term vision 2020 - 2040
- Formulating transitions roadmaps by consortia
- Selection of promising transition roadmaps
- Selecting and funding of relevant experiments
- Formulating of a policy roadmap for biomass

Now > 2040

Based on the vision
consortia are building
transition roadmaps



Special attention for discussion topics:

- Sustainability of biomass (import)
 - real CO₂ results (CO₂ balance)
 - attention to other emissions
 - responsible import from developing countries
- Markets for biomass
 - Standards for products
 - Transparency of quality and price

Co-operation Industry / NGO's / gov

Based on good mix of interests:

- prevention of climate change (NGO's+GOV)
- prevention of sustainability problems (NGO+IND)
- economic possibilities (IND + GOV)
- security of energy supply (GOV + IND)
- agriculture interests

Co-operation Industry / NGO's / gov

- A project group with all parties represented
- Start with a joint long term vision
- Talk about the short term problems with the vision in mind
- Combine the markets for biomass: agriculture, energy, transport, chemistry and bioproducts for new sparkling coalitions
- Focus on opinion leaders: Shell, Essent, DSM, DOW, WWF, Foundation for Nature and Env

Examples of transition pathways

- Ethanol for transport (lead by Nedalco)
- Biomass use in coal fired power plants (KEMA)
- Bioplastics (lead by potato waste processor)
- Hydrothermal upgrading (lead by Biofuel BV)
- The wooden society (lead by Arcadis)
- Hydrogen from wet biomass (lead by ECN)
- Bio refinery (lead by ATO)

Biomass transition Today

- Vision ready and approved (160 delegates)
- 16 transition roadmaps are in the making
- October: selection of transition roadmaps
- October: joint paper sustainability of biomass
- November: development of experiments
- 2004: Selection and start of experiments

The Vision: Biomass 2040

- 30% of Dutch energy system Bio Based in 2040
- Bio-electricity, transport, chemistry and products competing in a EU level playing field
- Biomass for ecological and economic reasons
- Tight ecological restrictions: competition with food production, biodiversity loss and other emissions
- Co-operation between Industry, NGO's, Government and Science is required

Main conclusions Biomass transition

- Co-operation industry, NGO's and government crucial
- When government hesitates; start with a common paper from pro-active industry and NGO's
- Respect each others interests and formulate a common vision
- Work on long and short term issues
- Connect an inner circle and inform everybody!



Transitie naar een duurzame energiehuishouding

Dit is een initiatief van het Ministerie van Economische Zaken

Together in the bus, traveling to the South