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Trends in Dutch bio-energy policies

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_Content

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- Sudden rise in ambition:
  - EU situation
  - Dutch coalition programme
  - Implications for policy

_EU targets

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Old

8% GHG reduction (2012)

12% renewable electricity (2010)

5,75% biofuels (2010)

New (2020)

20-30% GHG reduction

20% renewables in energy mix

10% biofuels

_Dutch targets

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Old

6% CO_2 reduction (2012)

9% renewable electricity (2010)

10% renewables in energy mix (2020)

5,75% biofuels (2010)

New (2020)

30% GHG reduction

20% renewables in energy mix

_Stepping up…

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- Additional effort: reducing 97 Mton GHG

Energy efficiency	27 Mton
Renewabele energy	29 Mton
Carbon Capture & Storage	4 Mton
Clean Development Mechanism	30 Mton
Miscellaneous GHG policy	7 Mton

- 34% renewable electricity
- 40% biofuels

Renewable electricity

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- 34% renewable electricity? 48 TWh
- Potential (ECN studies)

		TWh
windenergy onshore		8,2
windenergy offshore		26,3
biomass		38,6
co-firing coal	8,8	
co-firing gas	5,8	
gasification gas	4,3	
gasification coal	15,1	
waste incineration	1,6	
other	3	
solar pv		2,6
other		0,2
Total		75,9

Changes in organisation

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- Currently responsibilities divided between Minister of Economic Affairs and Minister for the Environment

- New cabinet: Project ‘Cleaner and more efficient’
- Responsibility of one minister
- Yet to be decided which…

Implications for policy

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- Focus on stimulation of renewable electricity:
  - Wind on and off shore
  - Biomass IF sustainability criteria can be applied
- Optimisation of feed-in scheme
- Stimulation of development of second generation biofuels
- Development of policy to encourage high value added use
- Broadening of energy mix with green gas and renewable heating and cooling
- Additional policy: R&D, Communication, Licensing

Lessons learnt / actions taken

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- Bio-energy should be truly sustainable
  - ACTION: developing sustainability criteria
- NIMBY-effect important for realising projects
  - ACTION: support factual information supply
- Stable support scheme for investment climate
  - ACTION: enhancing support scheme
- Permit procedures often difficult and lenghty
  - ACTION: Bureau to co-ordinate procedures

Issues to address

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- How to realise bio-energy production, …
  - That is truly sustainable
  - With high energy yield
  - That is cost-efficient
  - That is profitable in the long run
  - As part of structural renewable energy production capacity

Policy development (1)

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- Public-private co-operation for policy development
- Encourage “frontrunners”: 90% of future solutions expected from them

6 Platforms

- Sustainable Mobility
- Biobased Raw Materials
- New Gas
- Sustainable Electricity
- Built Environment
- Chain Efficiency

Tasks

- Voice of market
- Bring up projects
- Spot bottle necks
- Strengthen commitment
- Improve transition paths

Policy development (2)

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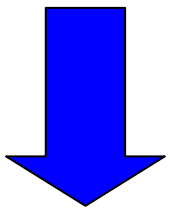
Classic approach

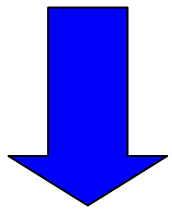
- Technology push
- Top-down
- Single issue
- Blue-print



Incremental change

Transition approach

- Attention goals *and* process
- Involvement stakeholders
- Room for experiments
- Policy innovation



System change

_Questions?

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