



Ministry of Economic Affairs

Policy for sustainable biomass valorization in the Netherlands

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Policy challenges

Competitiveness

Growing demand for resources

Energy crisis

Sustainability

Productivity



Innovation policy

Generic → tax incentives, loans, venture capital

Specific → Top sectors

High Tech, Life Sciences & Health, Chemical Industry,
Water, AgriFood, Horticulture, Energy, Logistics, Creative Industry

New → more focus on: cross sectoral collaboration and
societal challenges



Green Growth Agenda

Energy

Biobased Economy

Climate policy

Waste as resource

Sustainable buildings

Sustainable agriculture and food supply

Water



National Energy Agreement

- > 40 organisations signed the agreement
 - 14% renewable energy in 2020
 - 5 coal-fired power plants will be closed
 - 1,5% reduction overall energy consumption each year
 - >15.000 new full time jobs
 - co firing up to 25 PJ from 14 PJ
 - cascading is the starting point for use of biomass for energy



Biobased Economy

Optimal use of biomass (cascading) with bio refinery and development of bio materials.

Improve conditions for innovative biobased manufacturing industry

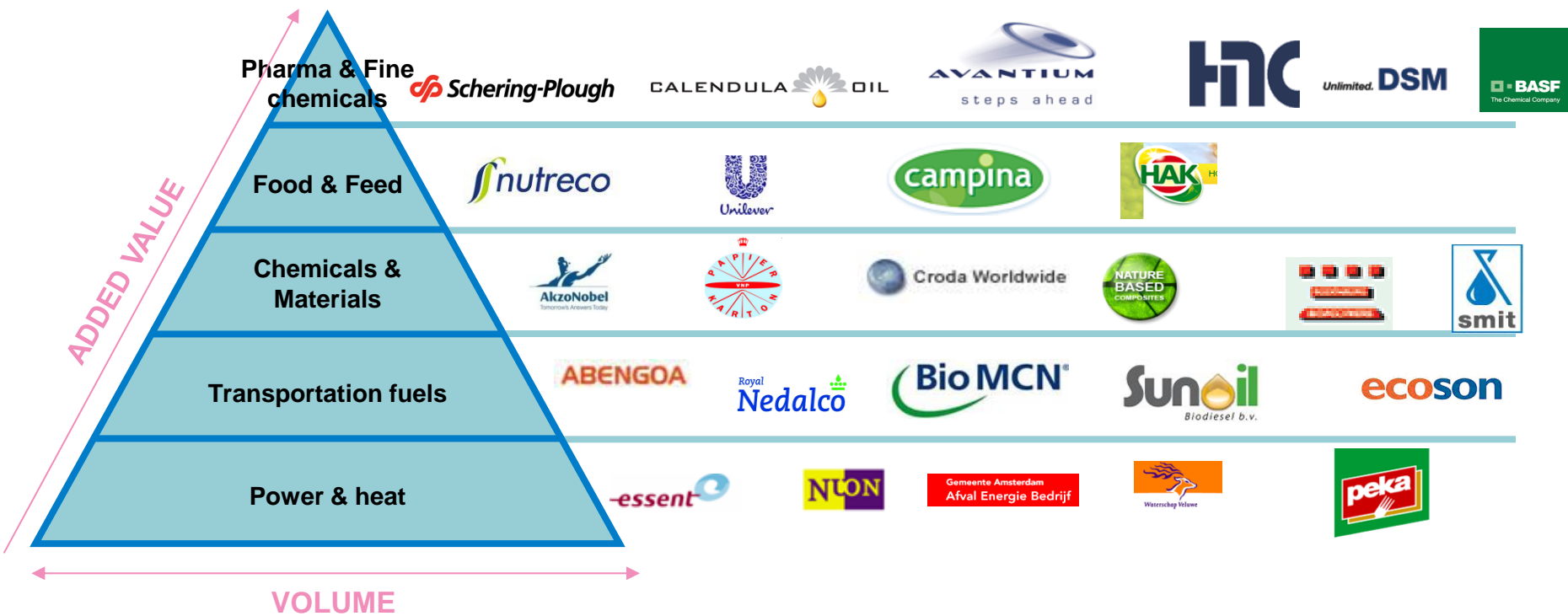
Criteria for sustainable production and use of biobased feedstock on EU level

Stimulate research innovation and room for demo projects and pilotplants

Remove bottlenecks in legislation and permits and create a levelplaying field for biobased business



Biomass cascading





Sustainable use of biomass

Corbey Committee

- cascading is leading principle
- broadening of
 - feedstock (solid biomass)
 - sustainability issues (ILUC, social)
 - biobased products
- alignment with voluntary schemes (international)



Certification biobased products

Green Deal

Partners: Dutch Plastics and Rubber Association,
PlasticsEurope Netherlands, SABIC

Ambition:

To stimulate the use of renewable feedstock for the production of polymers by implementation of sustainability certificates

Next step:

Harmonize and standardize, collaborate with member states (INRO initiative, Germany)



Proposal for sustainability criteria

Principle	Cramer	RED	Green deal
Green house gas emissions	Yes	Yes	Yes
Local food security	Yes	No	Yes
Biodiversiity	Yes	Yes	Yes
Environment (soil,water,air)	Yes	Yes	Yes
Social criteria for employees, local population	Yes	No	Yes
Economic aspects	No	No	Yes
ILUC	No	No	No



Innovation agenda

Innovation Contract →

Top consortium for knowledge and innovation, TKI

EU Horizon2020 → Joint Technology Initiative Biobased
Industry

EU Agenda for regional development → smart specialisation



What's next?

- Strengthening regional initiatives
- Green Procurement for biobased products
- Governance Horizon 2020
- Transition SME
- Human Capital Agenda BBE
- 2014-2015 update national innovation contract
- Standardization certification schemes



International cooperation

- Innovation and R&D
- EU Bio Economy Strategy
- Biomass supply
- Sustainability
- Infrastructure and logistics
- Trade agreements



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Thank you



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