

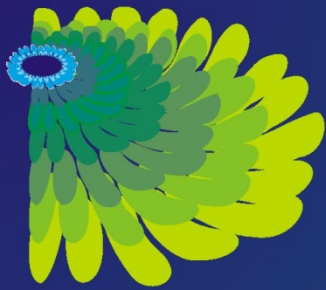
# Biomethane feed-in and distribution: daily practice

Albert van der Molen, MSc. (Stedin)

Chairman 'Project group biomethane'  
Netbeheer Nederland

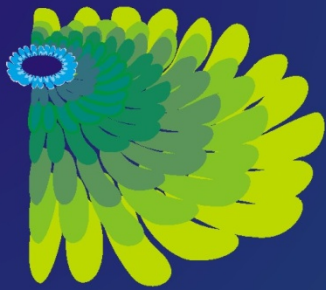
IEA congress biogas,  
's-Hertogenbosch November 4, 2010





# Agenda

- Introduction
- Pilot projects
- Conclusion



# Netbeheer Nederland

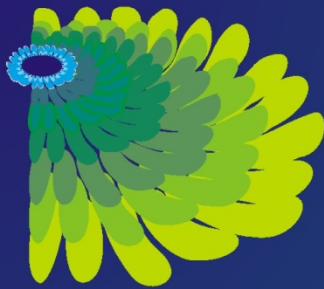
Primary tasks grid operators:

- Facilitate energy markets
- Manage and maintain grid infrastructure

Netbeheer Nederland:

- Represents all energy grid operators
  - Project group biomethane





# Biomethane feed-in: maximum efficiency

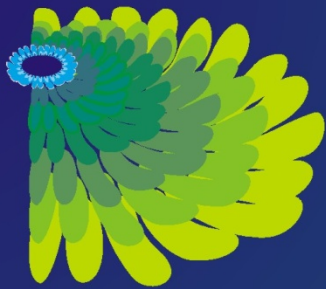


- Past: CHP ...
- ... but often no useful application for heat
- Upgrade to pipeline quality



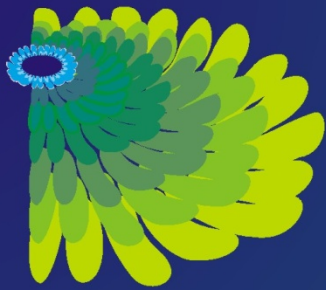
- Transport and make feed-in possible for optimal use elsewhere

Grid operators play a key role in the biomethane chain



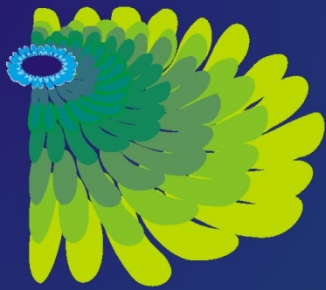
# Pilot projects

- Diversity in biomass source material
- Individual vs. centralized feed-in
- Alternative ways of facilitation



# Pilot project Groningen (biogas from organic part of domestic waste)

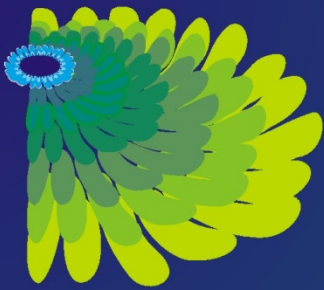




# Pilot project Mijdrecht (biogas from waste water)

water  net

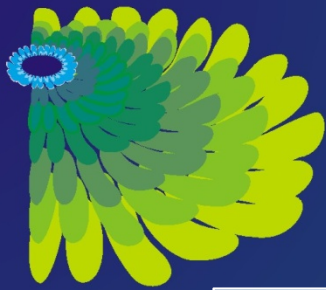




# Pilot project De Marke (biogas from manure)



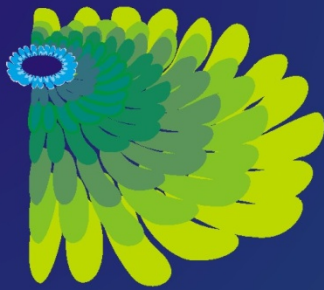




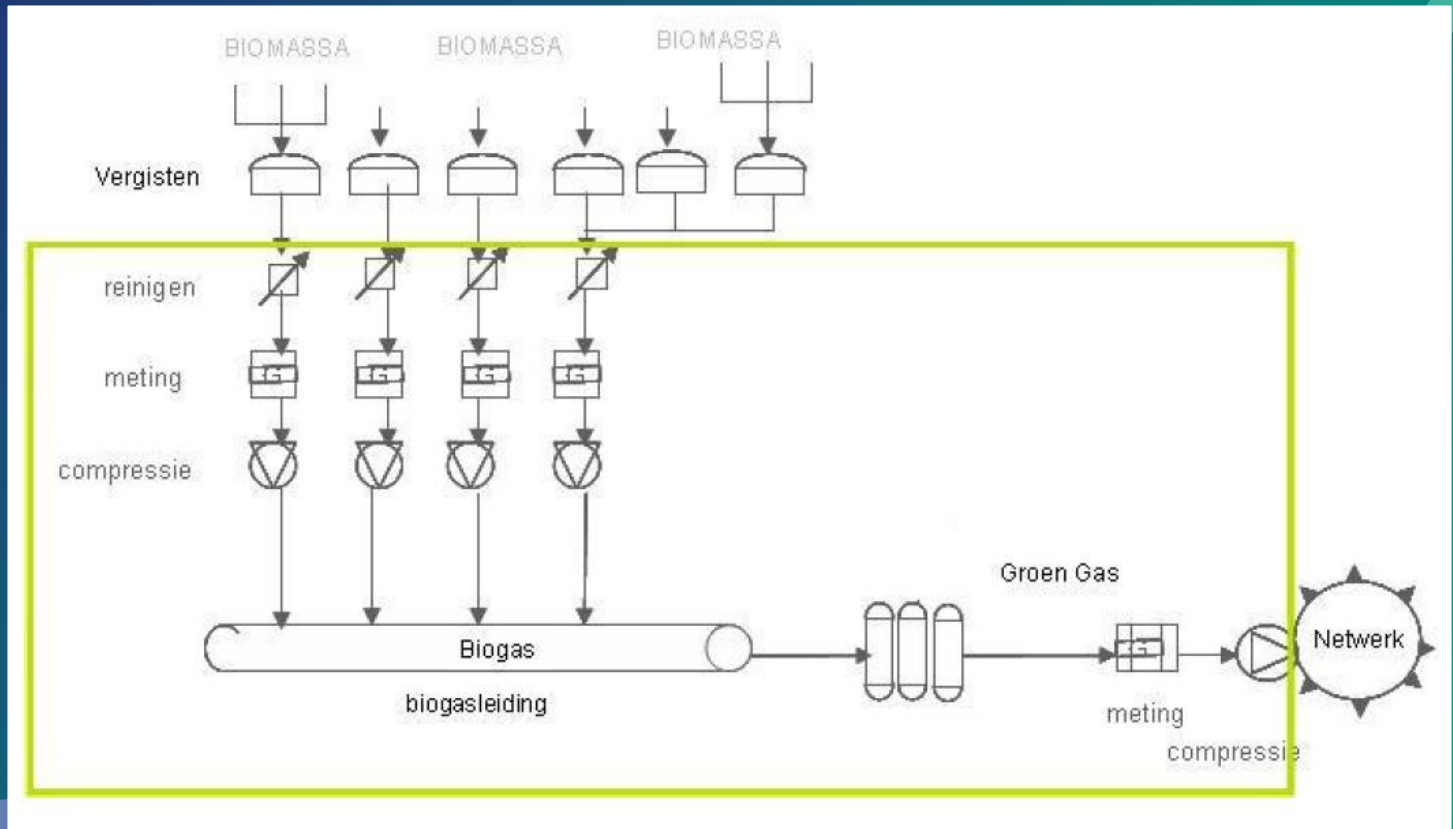
# Pilot Spakenburg

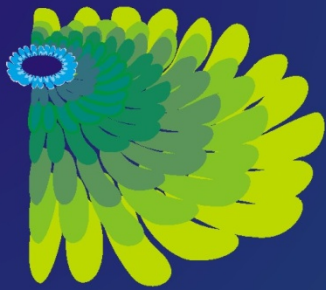
(biogas from fish remains)





# Pilot project Friesland (BioNOF biogas hub)





# Alternative ways of facilitation

Groengas.nl

