



NL Agency
Ministry of Economic Affairs

Country update Netherlands April 2010

IEA-Bioenergy
Meeting Task 37

Mathieu Dumont

>> Focus on energy and climate change



Content

- Project development and new subsidy schemes 2010
- Recently finalised feasibility study Grid injection at Haaften
- On-going projects
- Regional stimulation initiatives



Project developments

Expected yearly growth:

- 35 MWe (with a bonus in case of useful application of heat)
- 50 millionNm³/y production capacity for up-graded biogas

- Very much focus on Biogas up-grading with gas grid injection
- Cooperative approach for several Green Gas projects first option.



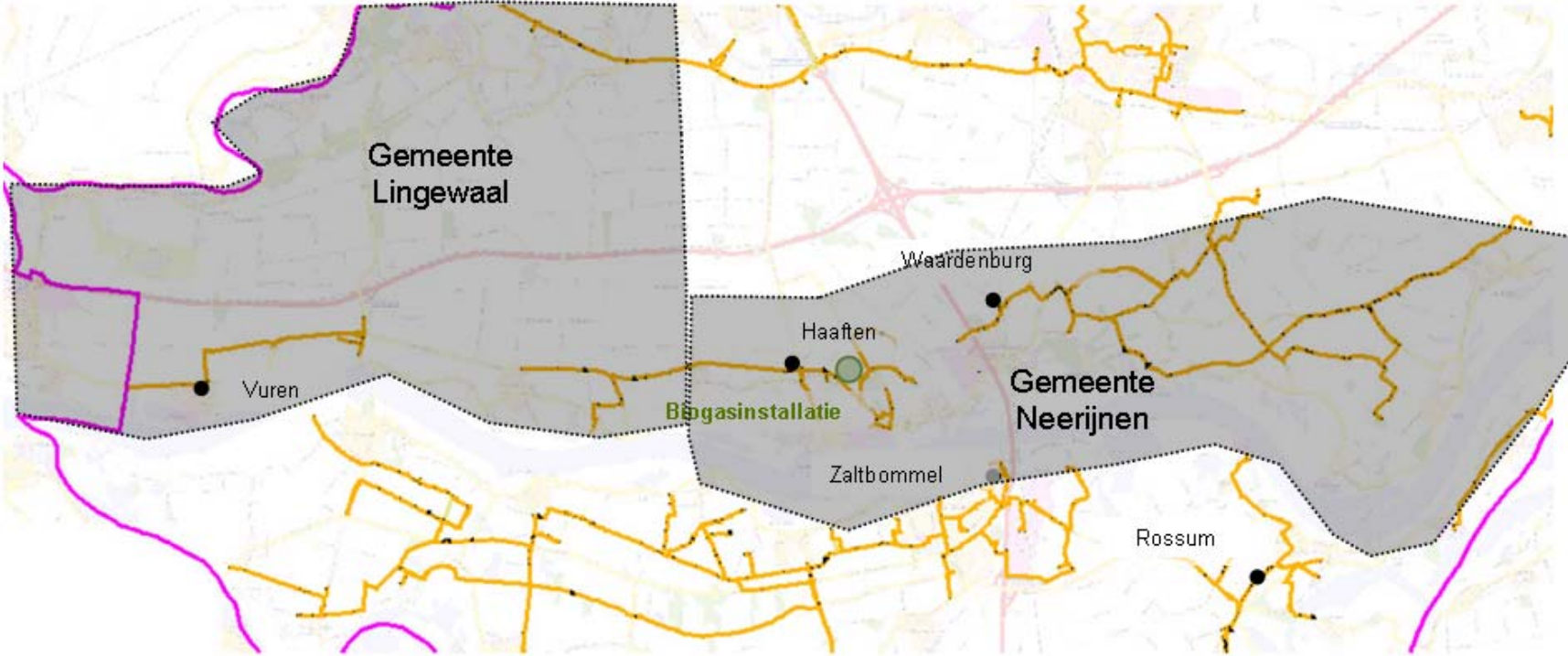
SDE-subsidy schemes 2010 (small scale project stimulation)

- Biomass: – Renewable Electricity
Budget 2010 € 651 million (over 12 years)
co-digestion: basis production price € 0,165(€ 0,193)/kWh
correction price (commodity energy value) of € 0,047/kWh

- Biomass: – Renewable gas (+/- 50 million Nm³/y)
Budget 2010: € 214 million (over 12 years)
 - (co)digestion of animal manure (0,635 – 0,208)
 - digestion of green household waste (0,465 – 0,208)
 - digestion other biomass (0,583 – 0,208)
 - landfill gas (0,218 – 0,208)
 - sewage sludge (0,218 – 0,208)

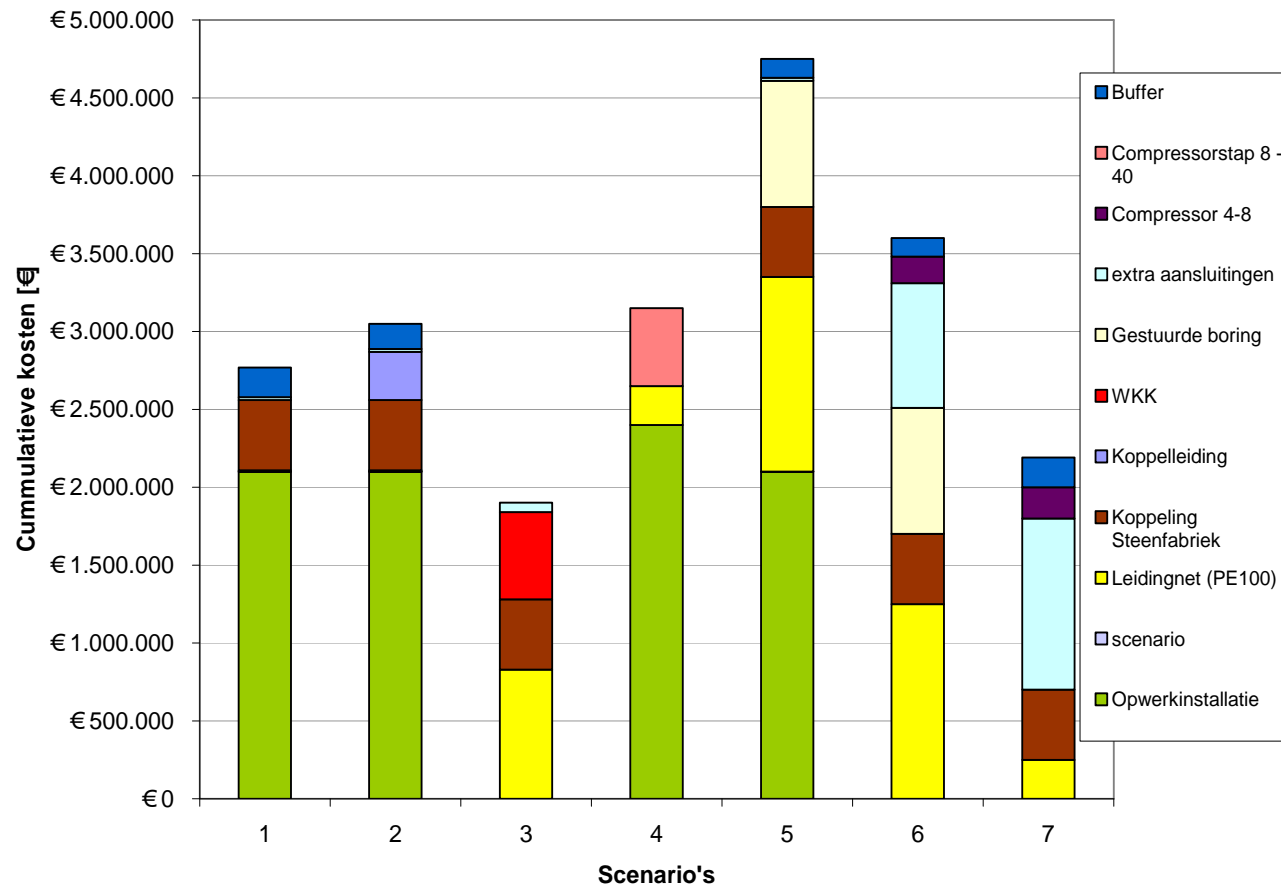


Feasibility study Grid injection at Haaften





Investment costs of several scenarios (production capacity: 1400 Nm³/h biogas)





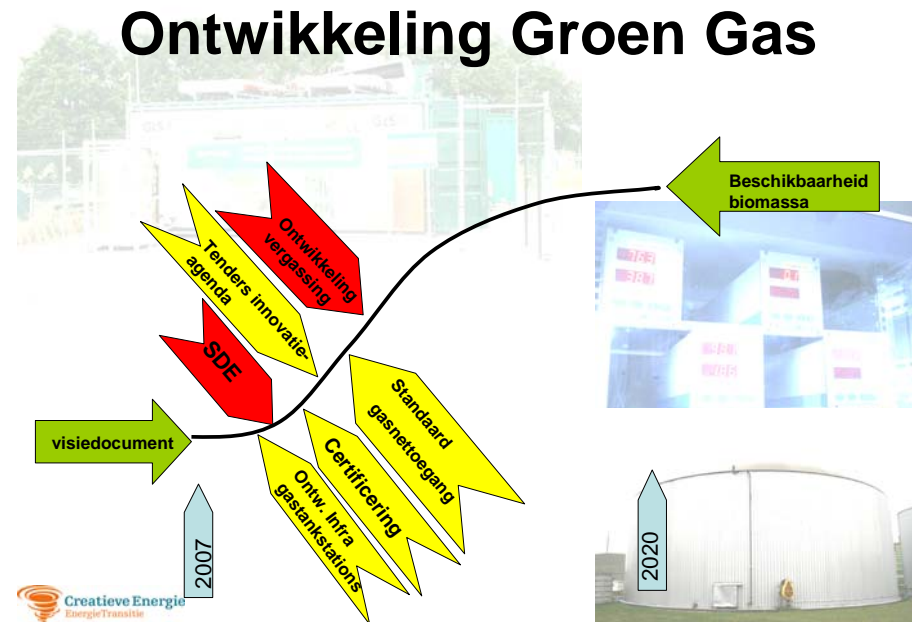
On-going projects

- Demonstration of small scale odourisation equipment
- Monitoring activities on 3 green gas projects
- Voluntary agreement for the use of Green Gas in the mobility sector
- Development of grid injection scenarios
- Tender: "An Effective and Efficient Biogas Chain"
 - . substantially improve the cost-effectiveness of the renewable gas production chain;
 - . remove technical barriers for feeding renewable gas into the gas grid or for delivery of this gas to filling stations
- Planning for project evaluation of digesters:
 - Phase 1: generating general figures of performance of digesters
 - Phase 2: detailed one year monitoring of 20 digesters with focus on process improvements
- Publishing an action plan (Jan. 2010):
"Towards a mature green gas market"



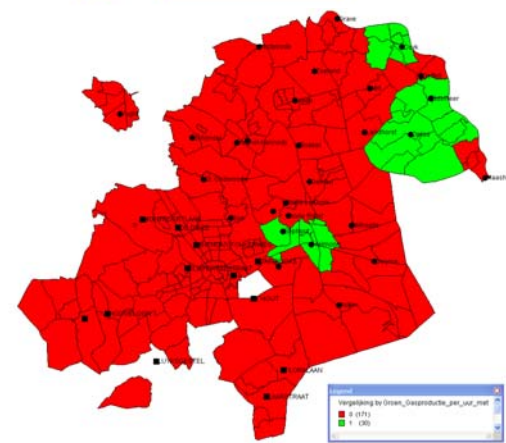
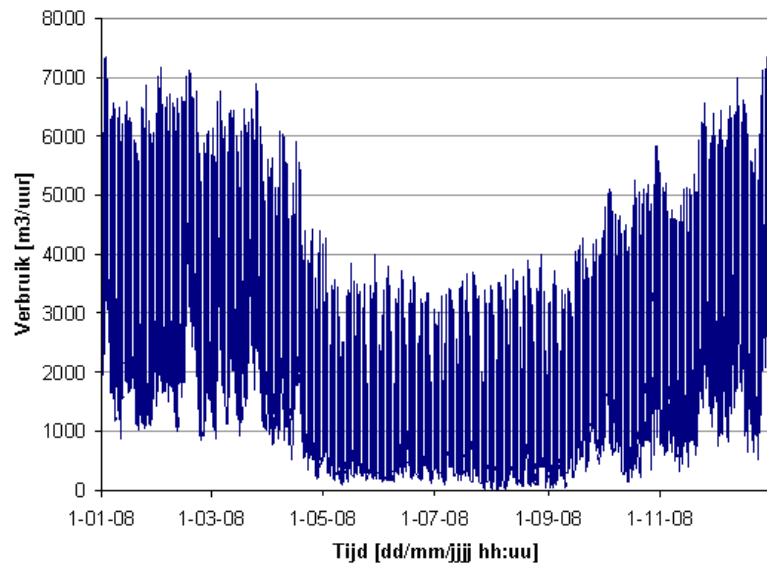
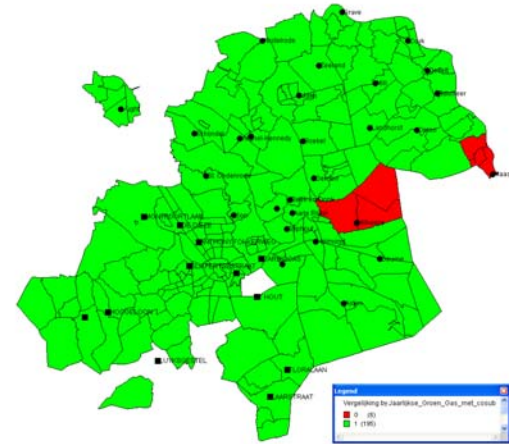
Action plan: Towards a mature green gas market

A new market thrives with transparency and knowledge sharing. Therefore, an investigation is now being carried out into the possible support among stakeholders for a Green Gas knowledge centre.





Region; Possibilities grid injection, Year based versus hourly based





Regional approach Implementation biogas projects

