Country update of The Netherlands
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Developments

- Strong increase in renewable energy – mainly co-combustion
  Import of palm oil, combustion in gas fired power stations
- Strong increase in manure digestion activities:
  - Co-digestion with maïs
  - One installation per month being realised
  - Suppliers are Dutch (Thecogas PlanET, Host, OGIN) for farm scale plants and German for 36 kton/year plants (Schmack, Osmo).
Developments

Development per plant:

- **Lichtenvoorde** (10-15.000 ton/year of cat. II and III waste):
  No developments, still running on non-homogenised material, preparing homogenisation.

- **Moerdijk** (30.000 t/y of restaurant and kitchen waste).
  Thermophilic plant, construction almost finished, own design, hygienisation, two 500 m³ hydrolysis tanks, two 2000 m³ digestion tanks.

- **BioRek Elsendorp** - Taken over by Orgaworld (Lelystad plant)
  Plan to digest waste (green, animal wastes). No news.

- **Tilburg plant** - plans to restart on industrial waste stream
  No news.

- **Haarlem** - Biogas upgrading plant at Landfill in Haarlem
  Upgraded gas will be used as a vehicle fuel. Project will start 1/1/2006.
  From end of 2005, in Haarlem + IJmond 88 busses will be fuelled with natural gas.

- **Amersfoort** - Sludge digestor at communal wastewater plant has stopped to codigest animal fats => fats are exported to Germany for codigestion.
Developments

Development per plant:
- **Esbeek** Construction of 36.000 ton/y manure + ??. Digester will start within weeks. Osmo (German, Osnabrück) builds digester. Plant is owned by large number of farmers.
- **Wanroij**: Construction of 36.000 ton/y digester has started. Input is manure + ?? incl. grass. Supplier is Schmack: two Eco3 horizontal plug flow reactors

General
- Number of natural gas filling stations increases:
Political situation

Renewable energy

- Yesterday (3rd Tuesday of September) = “Day of princes”:
  - Support for Renewable Energy is increased
    - 1,000 M€ for wind energy, 400 M€ for renewable energy in general
  - Biofuels will finally be stimulated by:
    1) tax redemption
    2) obligation for oil companies to mix percentage of biofuels
  - Natural gas as a transport fuel is stimulated by redemption of exotax
    (€ 0.02 - 0.10/m³, depending on amount).
- Nuclear power plant in Borssele will stay open until 2030.
  - Deal (to be finalised) between government and owners of plant will probably result in 250-500 M€ extra budget for Renewable energy.

Co-digestion

- Positive list (allowed co products) will change in 2006.
  Probably general criteria will replace specific list.
  Quite unclear what will happen exactly.
Political situation

- Amount of small scale biogas plants:
  - Under current financial conditions: 2800 plants possible
  - My estimation: only 50 - 100 will be realised in 2005-2010

*Current rate: 10-15 installations / year*