

# Landfill gas recovery and utilisation

## Heat distribution network landfill Nauerna

### Where

- NV Afvalzorg Holding
- Landfill site Nauerna, The Netherlands
- 80 ha landfill
- 4.5 ha greenhouse Corn. Bak (bromelia grower)
- Biggest landfill in The Netherlands
- Future destination: recreational park and industrial area



### What

- Landfill gas recovery by horizontal and vertical wells
- Utilisation of landfill gas in boilers
- Heat distribution network connecting leachate purification plant, head office Afvalzorg and greenhouse Corn. Bak
- Total investment: €850,000.00
- Grant: €200,000.00 by Port of Amsterdam



### When

- Feasibility 2010
- Engineering 2011
- Construction new vertical wells 2011
- Construction heat distribution network 2012
- Landfill gas recovery: 1997 - present
- Landfill gas utilisation: 1999 - present
- Heat distribution 2012 - present



### Result

- > 30 mln. m<sup>3</sup> landfill gas recovered since 1997
- Revenues from landfill gas
- Renewable energy production
- Replacing fossil fuels
- Significant greenhouse gas emission reduction
- Positive PR for all parties involved



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