

# Tekniska verken R&D Biogas

Presentation at IBBA workshop  
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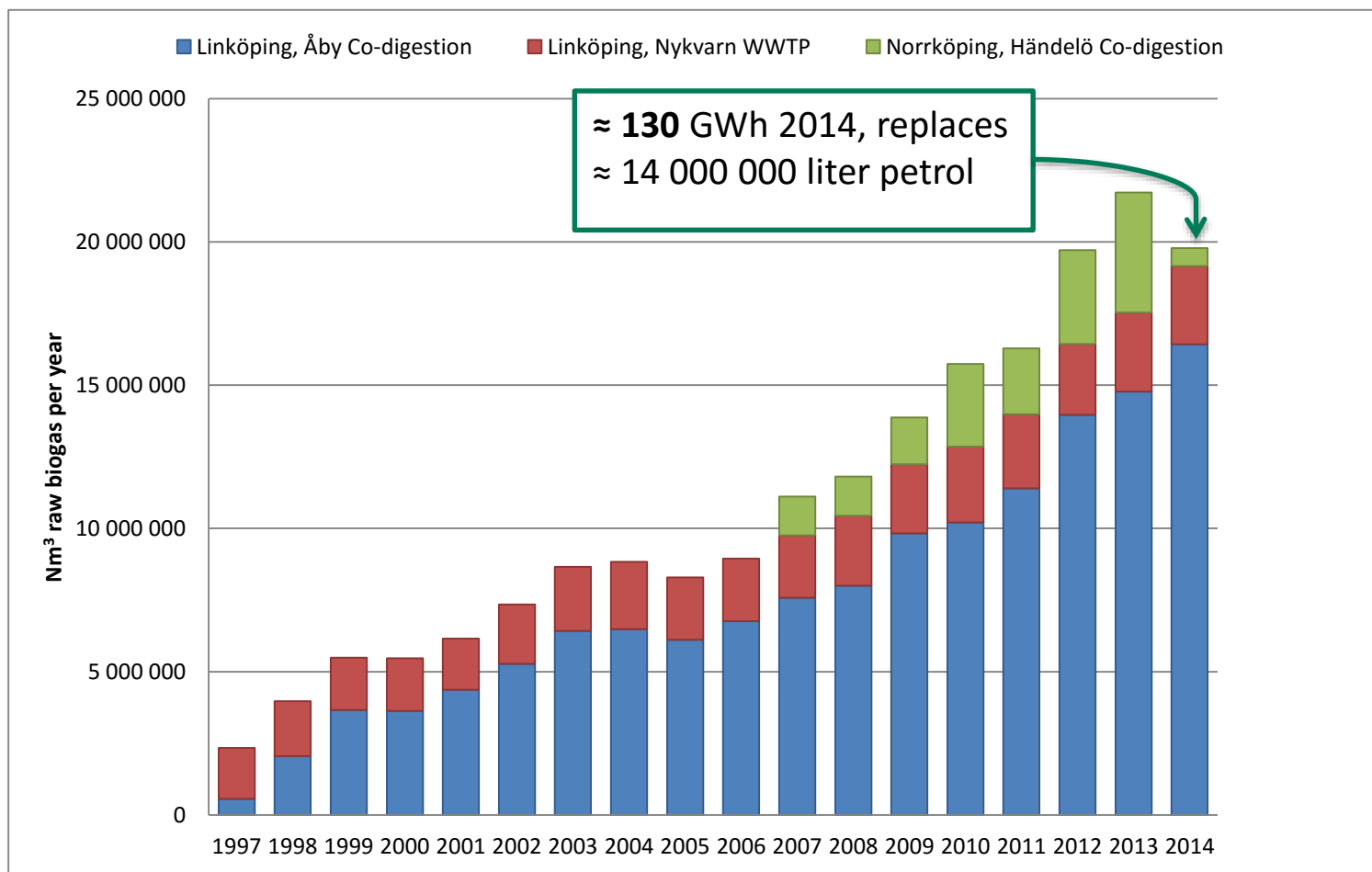


## Svensk Biogas i Linköping AB/ Tekniska verken

- 19 years experience of full scale biogas production
- 100 % renewable vehicle fuel produced using organic material
- Local production of biogas (Tekniska verken):
  - Linköping (Co-digestion and WWTP)
  - Sweden's largest biogas plant!
  - Partnerships in Motala and Katrineholm WWTP
- Operates its own filling stations in the counties of Östergötland and Södermanland (Svensk Biogas):
  - 12 filling stations and 3 bus depots
  - >160 busses in three cities, 25 garbage trucks
  - >3 000 cars (public and private)



# Total production of biogas at Tekniska verken



1 Nm<sup>3</sup> raw biogas (65 % methane)  $\approx$  0,7 liter petrol  $\approx$  6 kWh

1 Nm<sup>3</sup> upgraded biogas (97 % methane)  $\approx$  1,1 liter petrol  $\approx$  10 kWh

## Tekniska verken R&D Biogas

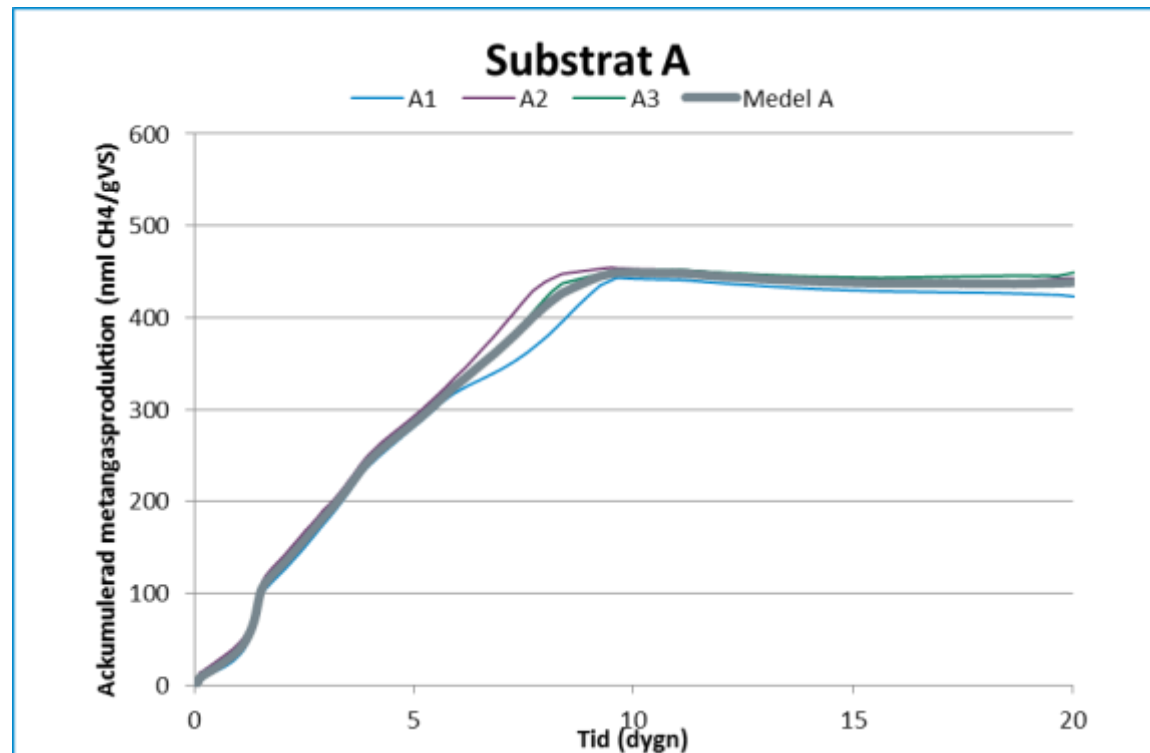
### - experts on anaerobic digestion in full scale and lab scale

- Long experience of developing full-scale biogas production
- Well-equipped laboratory with patented reactors for:
  - Continuous digestion investigations
  - BMP-tests
  - Water and sludge analysis
- Perform both in-house research and external assignments



# R&D Biogas

BMP-test with continuous gas measurement- AMPTSII





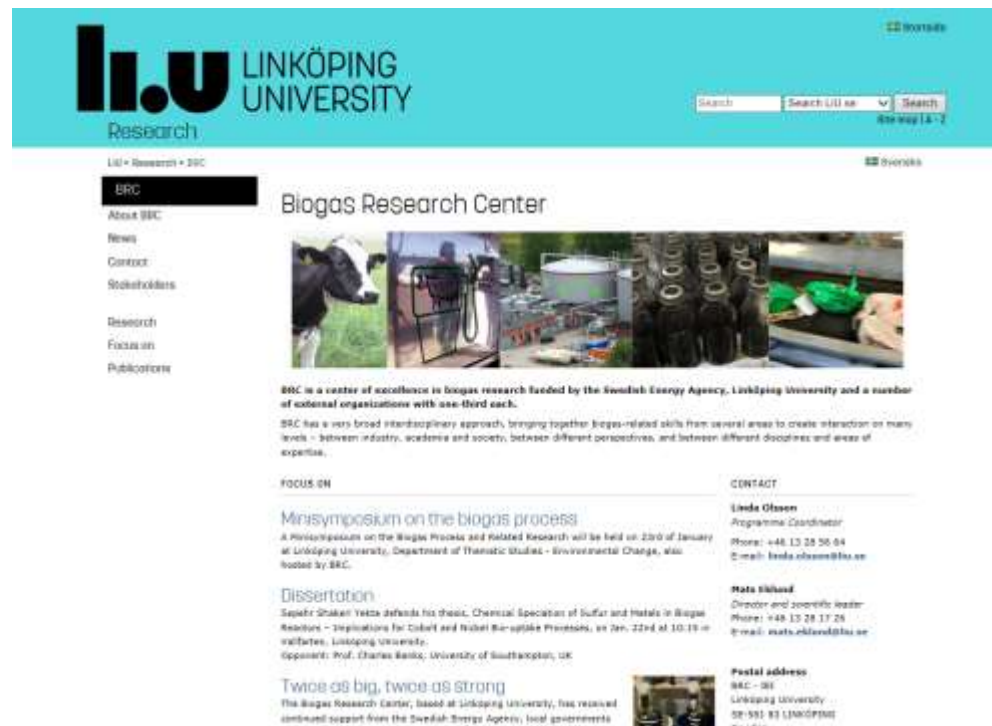
# R&D Biogas

Continuous digestion experiments in patented reactor



# Biogas Research Center

BRC is a center of excellence in biogas research funded by the Swedish Energy Agency, Linköping University, and a number of external organizations



The screenshot shows the website for the Biogas Research Center (BRC) at Linköping University. The header features the Linköping University logo and a search bar. The main content area is titled "Biogas Research Center" and includes a navigation menu on the left with options like "About BRC", "News", "Contact", "Stakeholders", "Research", "Focus on", and "Publications". The main text describes BRC as a center of excellence in biogas research, funded by the Swedish Energy Agency, Linköping University, and other external organizations. It highlights a multidisciplinary approach and lists recent events such as a Minisymposium on the biogas process and a dissertation by Sander Shakeri Yelma. The contact information for Linda Olsson and Mats Nilsson is provided, along with the postal address: BRC - 08, Linköping University, SE-591 83 LINKÖPING, Sweden.

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