
European Biomethane Fuel Conference

Göteborg, Sweden Sept. 7-9, 2009

Wastewater Treatment Plant: 1-Year Experience with the Pressure Swing Absorption System PSA

Agenda:

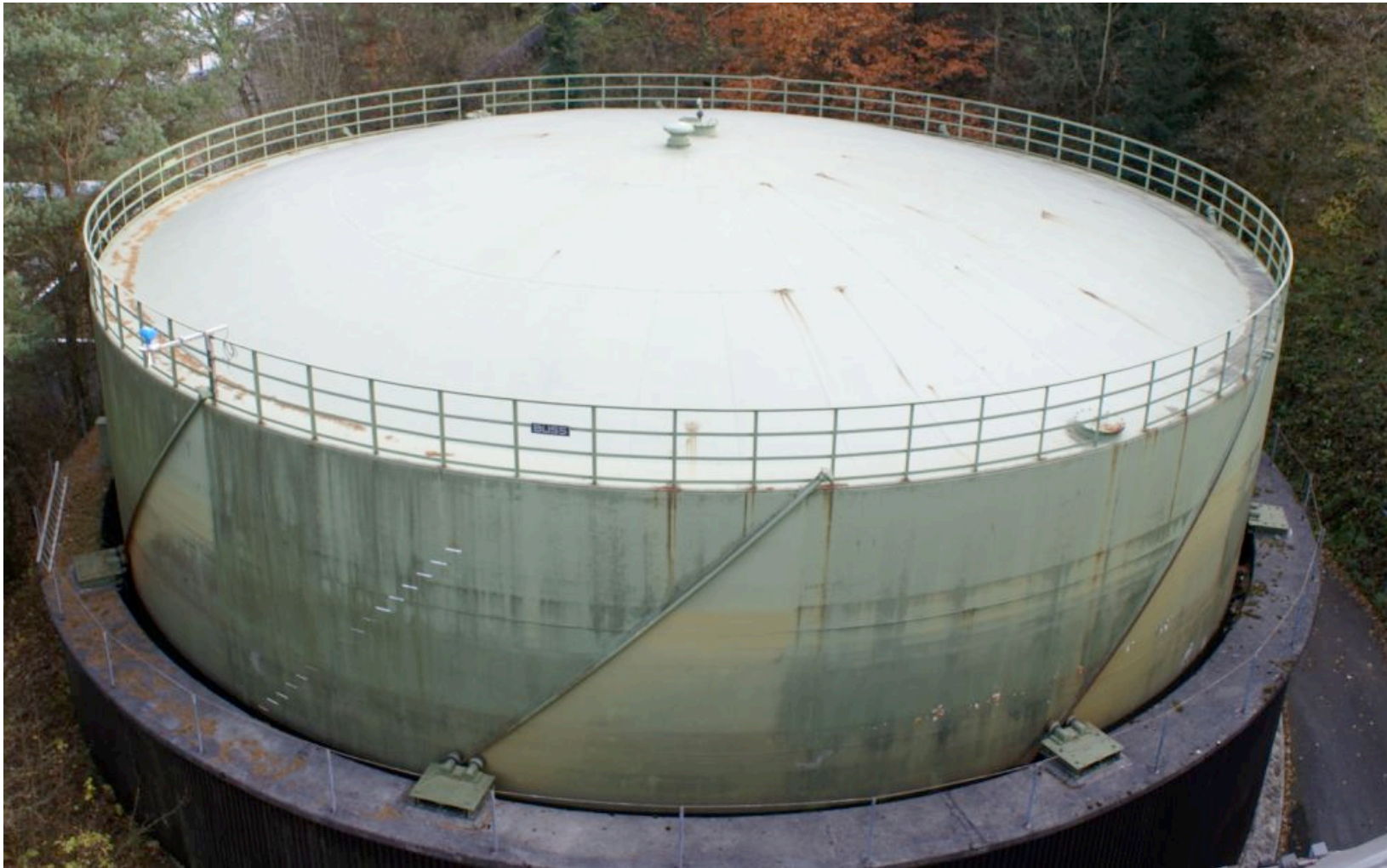
- Modification of Infrastructure
- Biomass Composition
- PSA



Dismantling of High Pressure Gas Tank



Water Sealed Gasometer in Operation



Dismantling of Water Sealed Gasometer



Installation of Double-Membrane Gasometer



Double-Membrane Gasometer in Operation



High Temperature Torches

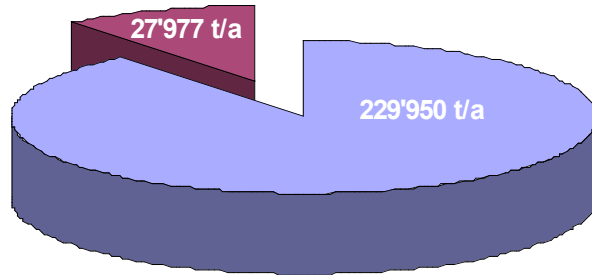


Biogas Condensation Station

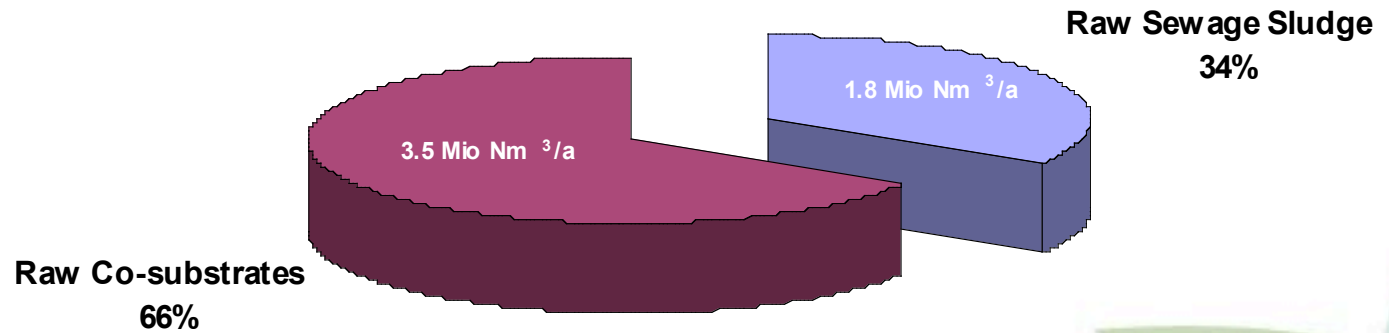


Biomass Composition and Biogas Production

Raw Co-substrates
11%



Raw Sewage Sludge
89%



Raw Co-substrates
66%

Raw Sewage Sludge
34%

Plant Specifications

- Make



- Quantity of biogas input 350 Nm³/h
- Quantity refined biomethane fed into grid 180 – 220 Nm³/h

Pressure Swing Absorption System Plant



Gas filter and Valve



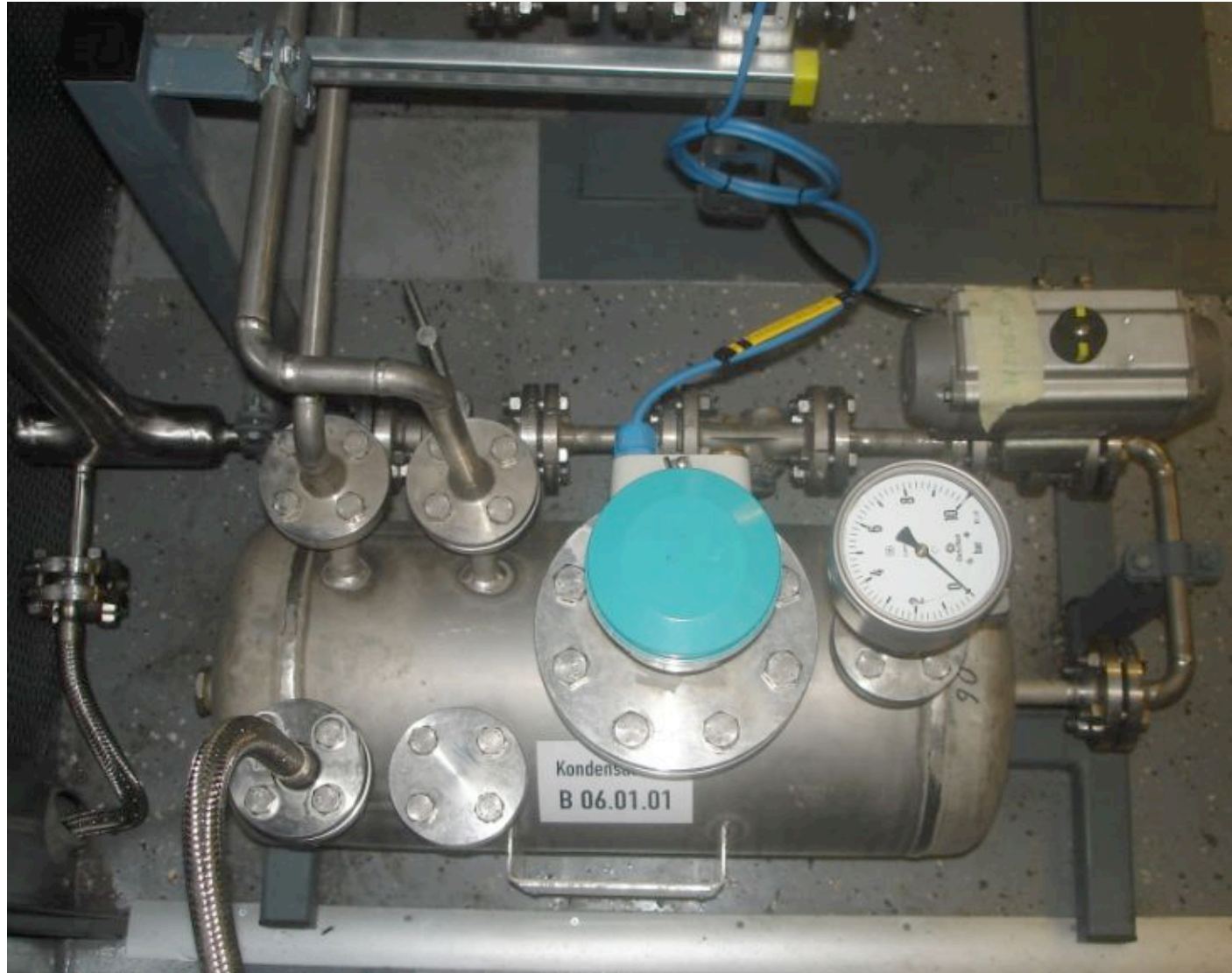
Mature Technology Installations



Gas Condensation Unit



Modified Gas Condensation Unit



Certified Biomethane as



Reference:



Master Degree Thesis:

Ms. Nathalie Bachmann

“Vorteile und Grenzen der Vergärung von leicht abbaubaren Industrie- und Lebensmittelabfällen in Abwasserreinigungsanlagen
Vergleich zur Landwirtschaftlichen Vergärung”

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