

IEA Bioenergy

IEA Bioenergy Task 37

Country Report Austria

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IEA Task 37 „Energy from Biogas and Landfill Gas“



Biogas Plant Inventory

Summary of AD Plants in Austria:

- Agriculture	~300
- Industrial	~ 25
- Sewage sludge	134
- Municipal (biowaste)	~30
- Landfill	62

Note: a full plant list for the country will be needed in order to up-date the plant list on the website

Biogas Plant Inventory

Summary of Up-grading Plants in Austria:

Plant / Location	In operation	Technique	Capacity (raw biogas)
Bruck / Leitha	Since 2007	Gas permeation	180 Nm ³ / hr
Pucking	Since 2005	PSA	10 Nm ³ / hr
Leoben	Since 2009	Amine	140 Nm ³ / hr
Linz	planning		
St. Margarethen am Moos	Since 2007	Membrane	25 kg CH ₄ / hr (300 bar)
Eugendorf	Since 2008	Blend of Methane (80 %) and biogas (20%)	22 Nm ³ / hr
New plants: Güssing (gas station), Wiener Neustadt (gas grid)			

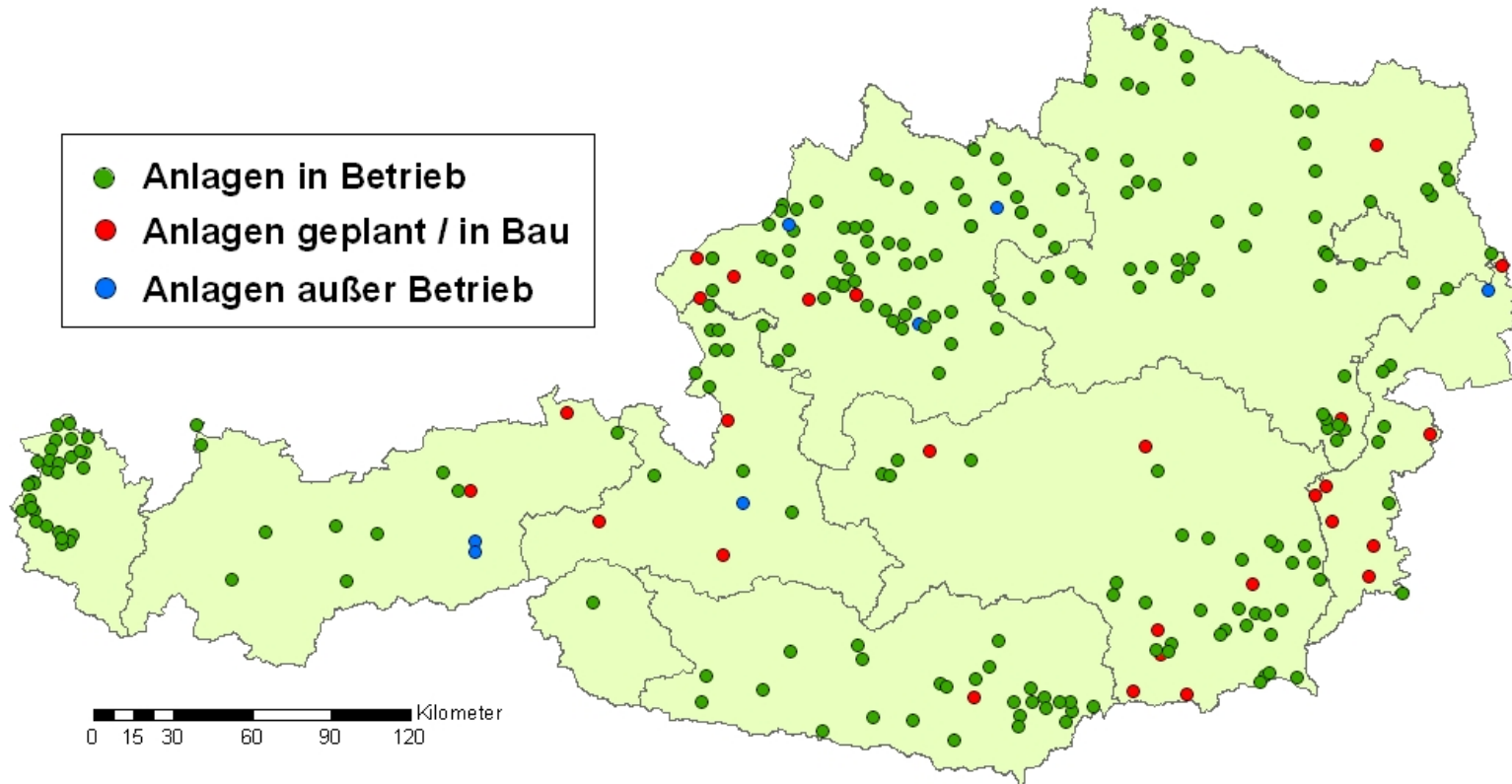
Note: a full up-grading plant list for the country will be needed in order to up-date the plant list on the website

Biogas Plant Inventory

Trends in numbers of AD Plants in Austria:
unchanged, ~ 300 Biogas plants (Agriculture)

Trends in numbers of Up-grading Plants in Austria:
**some few new plants,
in total 7 Biogas upgrading plants at work**

Plants at work (●), planned (●) and closed down (●)



Biogas Plant Inventory

Summary of Austrian Gas Production Data:

- Raw biogas production ~265-414 Mio m³/year
- Electricity production ~77 MW_{el}
- Amount of heat recovered unknown
- Up-graded to biomethane
 - **amount injected to natural gas pipeline:**
Bruck/Leitha: 800,000 m³ / year
 - **amount used as vehicle fuel:**
Margarethen am Moos: 215,000 kg CH₄ / year (300 bar)

Ökostromgesetz Novelle New Renewable Energy Law

- Draft version
- 15 years
- Up to 4 €-Cent/kWh (for increased operating/substrate costs) (max. 20 Mio. €)
- New plants need a 5 year concept for resources
- $\eta = 60 \%$
- No competition between food and energy
- 200 Mio. € for electricity from liquid and solid biomass and biogas

Biogas Plant Inventory

Economic Support Data:

- Feed-in tariffs in Austria

From 2010 onwards just 3 instead of formerly 5 categories

18,5 Cent / kWh up to 250 kW_{el},

16,5 Cent / kWh from 250- 500 kW_{el}

13 Cent / kWh above 500 kW_{el}.

+ 2 Cent / kWh if biogas is upgraded

+ 2 Cent / kWh if heat is used properly

- Investment grants in Austria

Depend on local conditions

Forthcoming publication/work from IFA Tulln:



International Symposium on Anaerobic
Digestion of Solid Wastes and Energy Crop
August 28th – September 01st, 2011

www.adswec2011.org

Thank you for your attention!

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