

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 <sup>3</sup> / hr
Pucking	Since 2005	PSA	10 Nm <sup>3</sup> / hr
Leoben	Since 2009	Amine	140 Nm <sup>3</sup> / hr
Linz	planning		
St. Margarethen am Moos	Since 2007	Membrane	25 kg CH <sub>4</sub> / hr (300 bar)
Eugendorf	Since 2008	Blend of Methane (80 %) and biogas (20%)	22 Nm <sup>3</sup> / hr
New plants: Güssing (gas station), Wiener Neustadt (gas grid)			

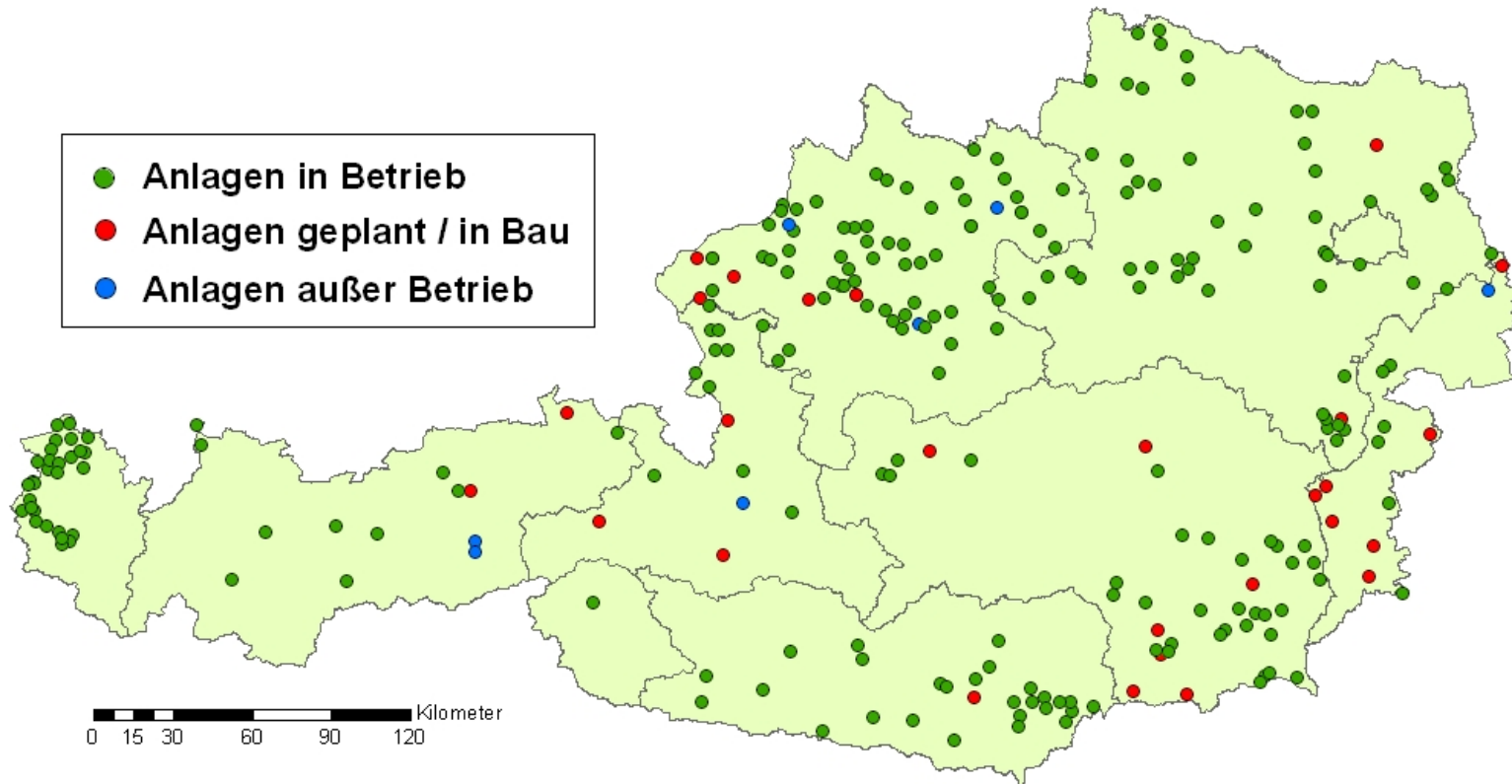
Note: a full up-grading plant list for the country will be needed in order to up-date the plant list on the website

## 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 m<sup>3</sup>/year
- Electricity production                      ~77 MW<sub>el</sub>
- Amount of heat recovered              unknown
- Up-graded to biomethane
  - **amount injected to natural gas pipeline:**  
Bruck/Leitha: 800,000 m<sup>3</sup> / year
  - **amount used as vehicle fuel:**  
Margarethen am Moos: 215,000 kg CH<sub>4</sub> / 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<sub>el</sub>,

16,5 Cent / kWh from 250- 500 kW<sub>el</sub>

13 Cent / kWh above 500 kW<sub>el</sub>.

+ 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 28<sup>th</sup> – September 01<sup>st</sup>, 2011

[www.adswec2011.org](http://www.adswec2011.org)

# Thank you for your attention!

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