

COUNTRY REPORT



AUSTRIA

Berlin (Germany), October 2015

AD plants



Plant type	Number of plants (approved)	Installed Capacity (MW)
Sewage sludge and landfills	44 (75)	15.8
AD plants	293 (380)	82.5
Total	337 (455)	98.3

Source: Ökostrombericht 2014. E-Control GmbH

Biogas upgrading plants



	Technology	Year	Size [m ³ CH ₄]
Pucking	PSA	2005	6
Eugendorf	PSA	2008	40
Bruck an der Leitha	Membrane	2008	170
Margarethen	Membrane	2008	800
Asten	water scrubber	2009	450
Engerwitzdorf	amine scrubber	2010	130
Rechnitz	PSA	2010	40
Leoben	amine scrubber	2010	130
Wiener Neustadt	Membrane	2011	120
Steindorf	PSA	2012	150
Schlitters	PSA	2012	150
Häusle		Okt 13	550
Total			2.736

Utilisation



Utilisation of the biogas expressed in GWh/year:

Utilisation type	GWh
Electricity	564
Heat	640
Vehicle fuel (4)	6.64 *
Gas grid (10)	12.84 *

Source: Ökostrombericht 2013; Franz Kirchmayr (Arge Kompost & Biogas)

*= max. production

Number of vehicles: 7,000- 8,000

Feed-in tariffs



**19.50 Cent / kWh up to 250 kWe,
16.93 Cent / kWh from 250 - 500 kWe
13.34 Cent / kWh from 500 - 750 kWe
12.93 Cent / kWh for higher than 750 kWe**

**+ 2 Cent / kWh if biogas is upgraded
+ 2 Cent / kWh if heat is used efficiently**

It is required that a minimum of 30% manure is used as a substrate to get the feed-in tariff. If organic wastes are used, the feed-in tariff is reduced by 20%.

Older biogas plants, where subsidies are running out, can apply for a longer subsidising period, in total 20 years. Furthermore, a supportive measure for existing plants (built before 2009), up to 4 cent/kWhel can be granted for securing substrate provision; in 2013 it was 3 cent/kWhel

Expected Future Development (E-Control)



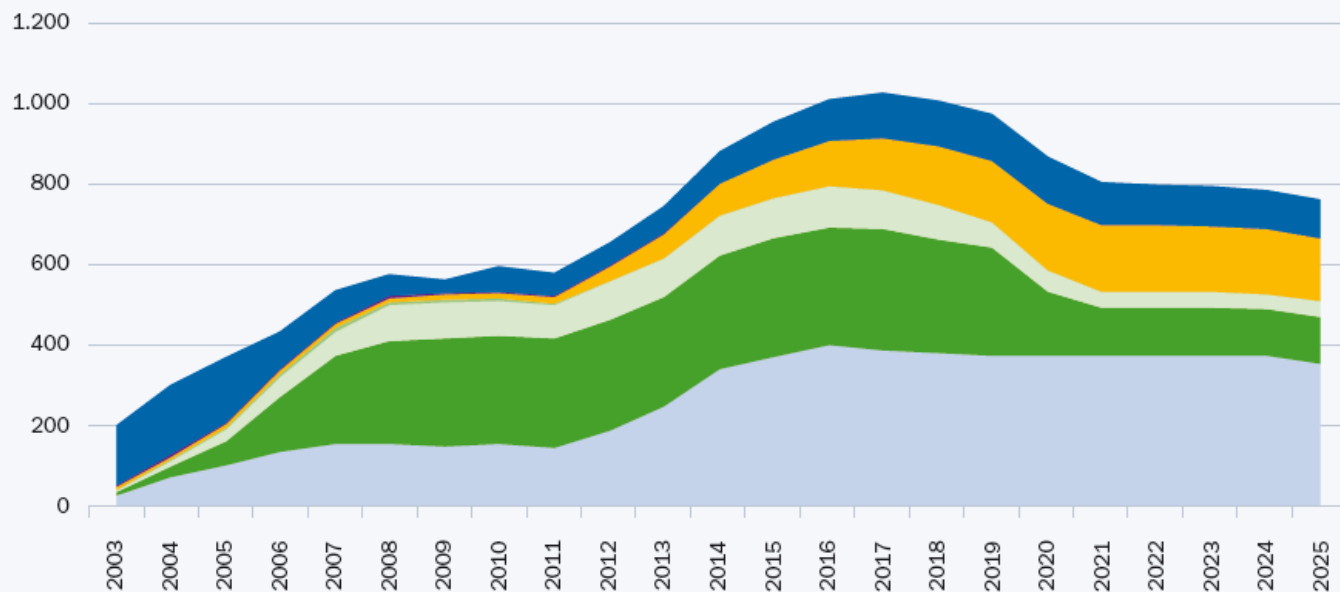
"The construction of future biogas plants will strongly depend on available funding. In future an overall decrease in biogas plants is expected. It is not expected that biogas plants will be able to provide energy at market prices. In new biogas plants the utilisation of waste will be the main focus. With regard to existing biogas plants, it is expected that market consolidation will take place with regard to existing biogas plants. Many biogas plants have been planned with wrong assumptions. One main aspect is for example no or very limited heat utilisation."

Source: Ökostrombericht 2014. E-Control GmbH

Future expected development on funding



ENTWICKLUNG DES VERGÜTUNGSVOLUMENS 2003 BIS 2025 in Mio. €



- Hydro power (small)
- Others
- Photovoltaics
- Biomass liquid
- Biogas
- Biomass solid
- Wind

Abbildung 18
Entwicklung des Vergütungs-
volumens 2003 bis 2025

Quelle: E-Control, OeMAG

Source: Ökostrombericht 2014. E-Control GmbH

New Project: Austrian Brewery – Utilisation of by-products for biogas



Location: Göss, Austria

Company: Brau Union, BDI Bioenergy

Feedstock: Brewers' spent grains