



BiG>East

Biogas Study Tour – Austria

from 20/04/2009 to 22/04/2009

WELCOME



BiG>East

Promoting Biogas in Eastern Europe

Program: Intelligent Energy for Europe

Contract No.: EIE/07/214

Project Duration: 1 September 2007 to 28 February 2010

Intelligent Energy  Europe

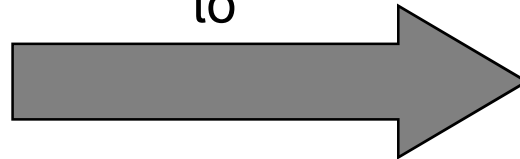


BiG>East concept

Knowledge and experience transfer from countries with developed biogas production and utilisation to those countries which biogas market is still emerging.

Austria,
Denmark,
Germany

to



Bulgaria, Croatia,
Greece, Latvia,
Romania, Slovenia



Project leader:
WIP Germany



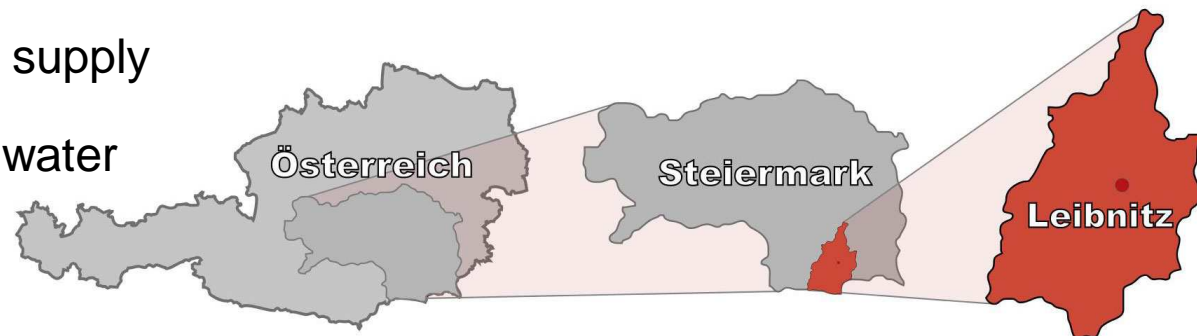
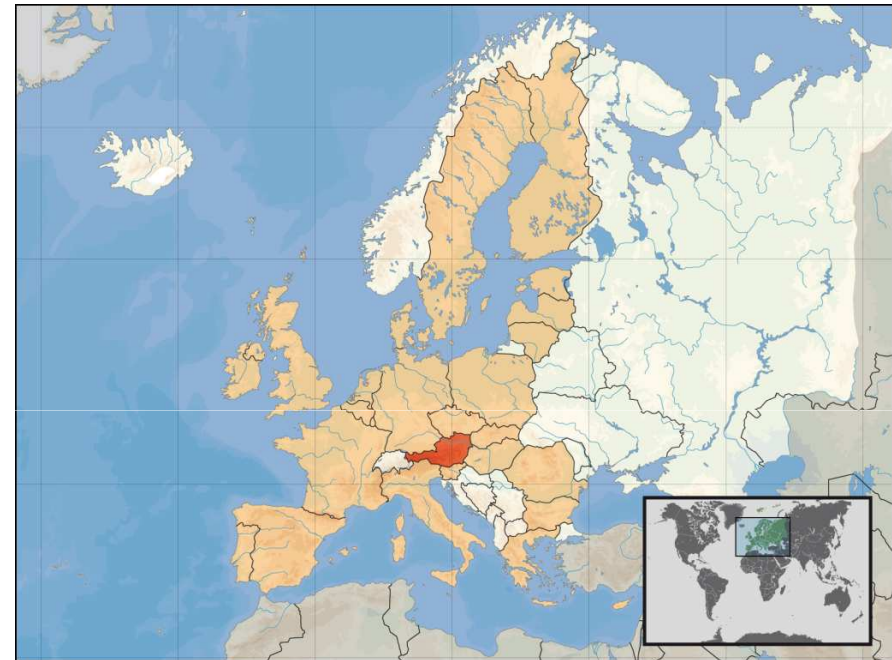
More information: <http://www.big-east.eu>

Engineering & Consulting



Austria


- EU-Member (since 1995)
- Size: 83.871 km², population: 8,34 Mio.
- Long experience in environmental sector
- Leading position in environmental politics and technology
- International established environmental technology
- Renewable Energy (water, wind, sun, biomass)
- Water treatment and water supply
- Waste disposal and waste water disposal




The Company

- Private engineering and consulting company
- Leading in the Austrian environmental, energy and infrastructure sector
- Independent of industry and trade
- Integrated in national and international networks
- Independent advice in all areas of business activities
- From project development to financing, planning and construction supervision up to commissioning
- Quality assurance






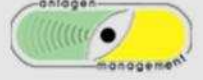
Renewable Energy
Consultation - Planning - Realisation




Consulting Engineers for Drainage Engineering and Water Economy
Serving the Environment!



Consulting Engineers for Surveying
Commitment & Quality!




Mechanical Engineering
Supervision - Maintenance - Repair- Control



Data Processing & Information Technology
Always a Step Ahead!

Subsidiaries



Bio Agros KFT.
Consultation - Planning - Realisation

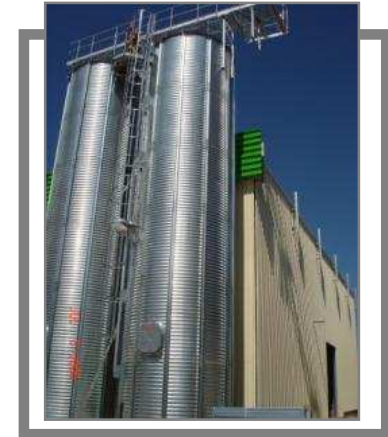
Project management within the autonomous business segments

- Environmental engineering and water management
- Waste water management and water supply facilities
- Surveying
- IT Services
- Facility management
- Consulting
- **Renewable Energy**

RENEWABLE ENERGY

Use of biomass

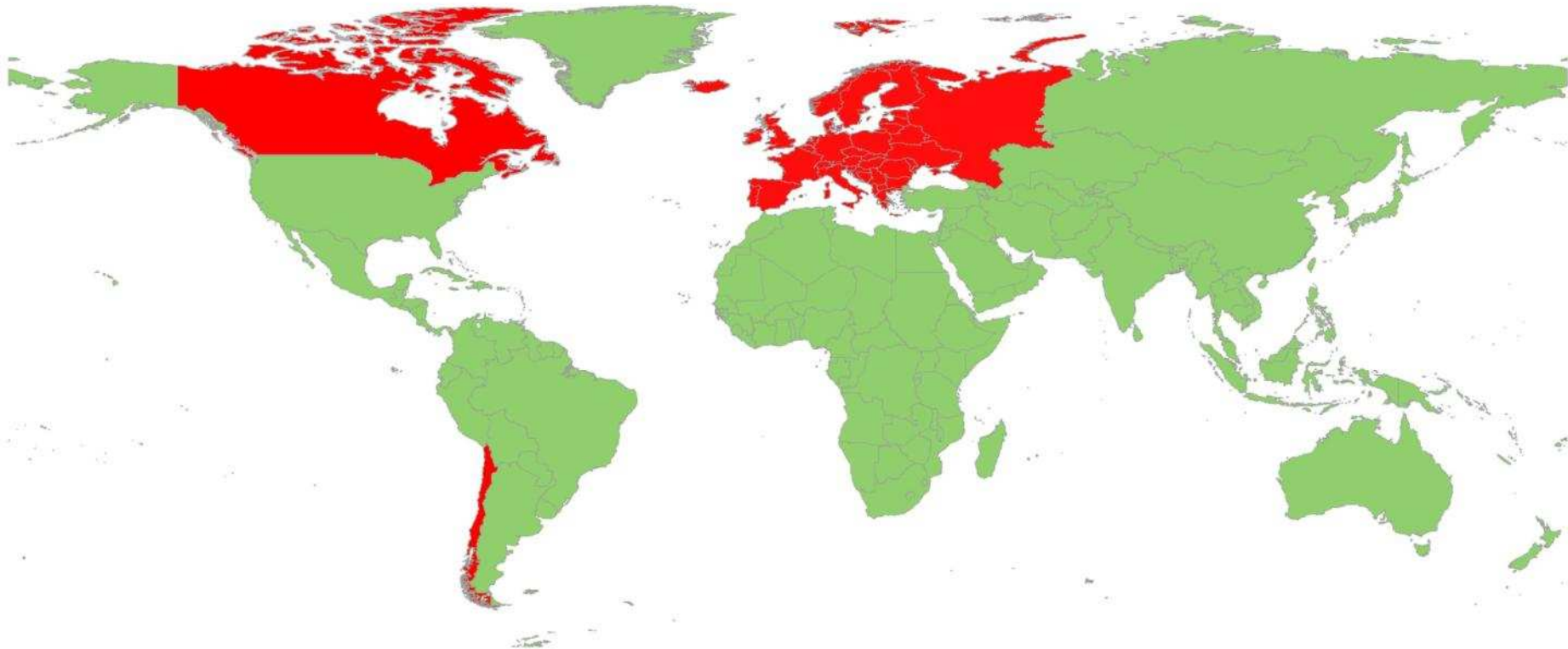
- **Biogas**
- Bioethanol
- Biodiesel
- Wood pellets



- **Combination of different technologies**
- Other sources of renewable energy

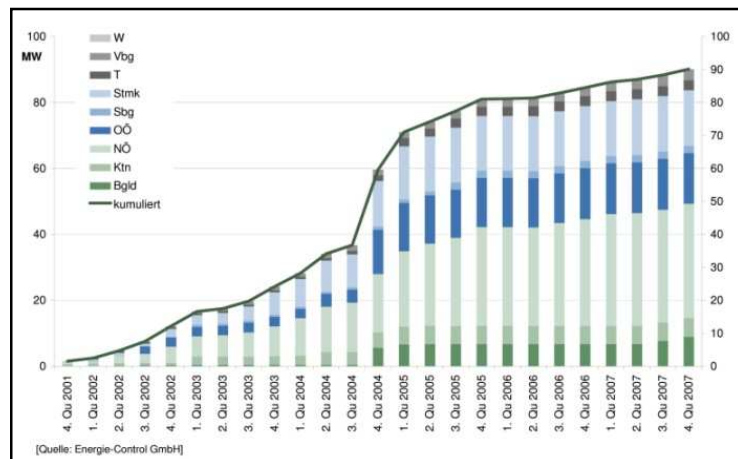


REFERENCES



- 35 planned plants in Austria
- 65 planned plants worldwide
- Projects in Austria, Hungary, Slovenia, Germany, Croatia, Serbia, Bosnia-Herzegovina, Russia, Canada and Chile

Biogas plants in Austria



Leibnitz, 20.04.2009

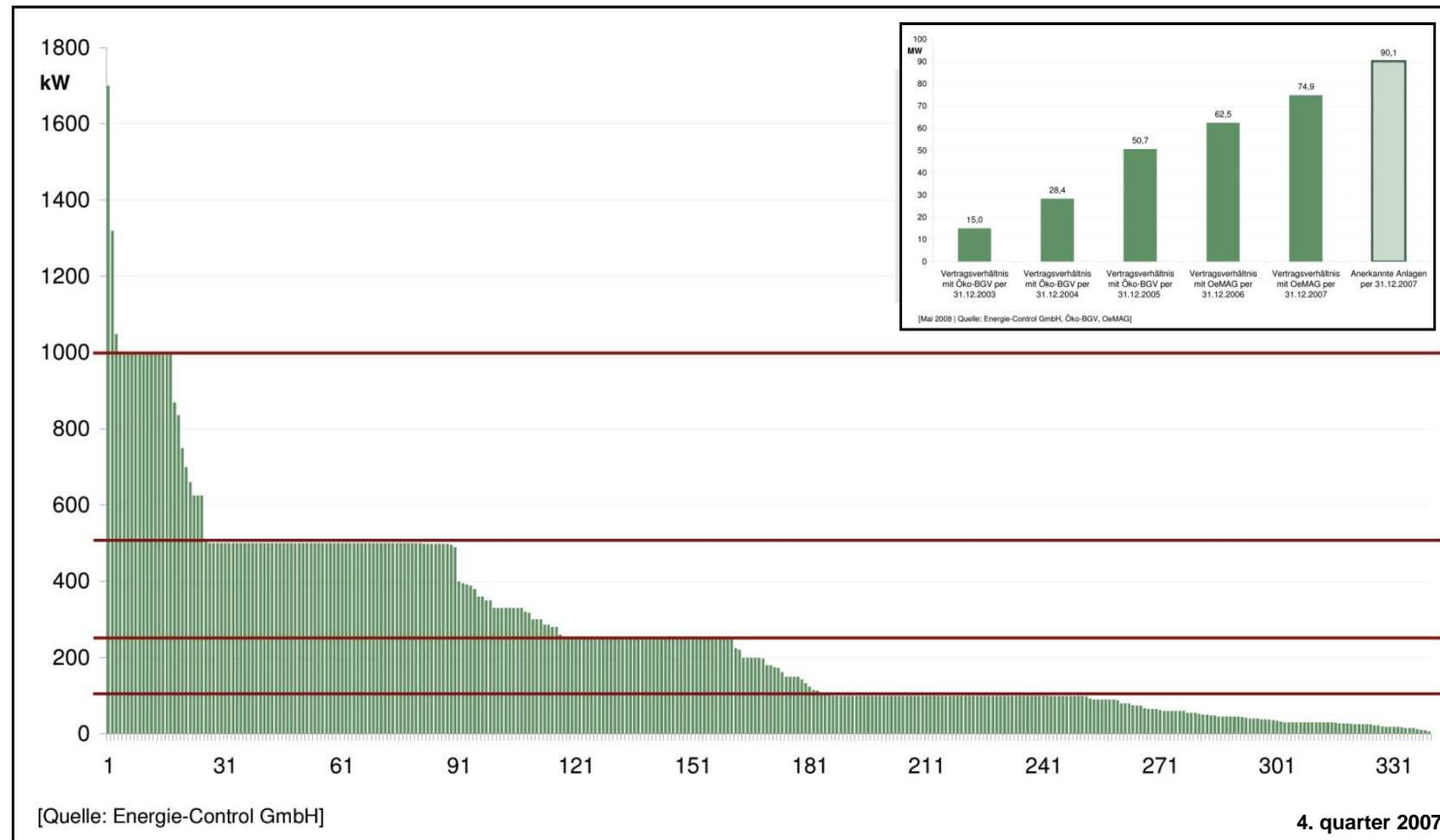
Biogas Plants in Austria

Biogas					
Federal state (short name)	Contractual relationship with OeMAG per 31.12.2007			Approved biogas plants per 31.03.2007	
	Number	Maximum capacity MW	Power input 2007 GWh	Number	Maximum capacity MW
Burgenland (Bgl)	10	4,25	17,95	19	8,93
Carinthia (Ktn)	33	5,52	30,17	34	5,65
Lower Austria (NÖ)	88	29,85	169,87	100	34,73
Upper Austria (OÖ)	63	12,88	83,25	78	15,34
Salzburg (Sbg)	11	1,73	10,29	11	2,19
Styria (Stmk)	41	15,78	105,18	45	16,89
Tyrol (T)	16	1,95	8,82	19	3,02
Vorarlberg (Vbg)	32	2,99	14,04	34	3,35
Vienna (W)	-	-	-	-	-
Total	294	74,95	439,57	340	90,10

As at 31.12.2007 in Austria **340 biogas plants** with a total electrical output of **90 MW** have been approved.

Thereof **294 biogas plants** with a total electrical output of **75 MW** are already working.

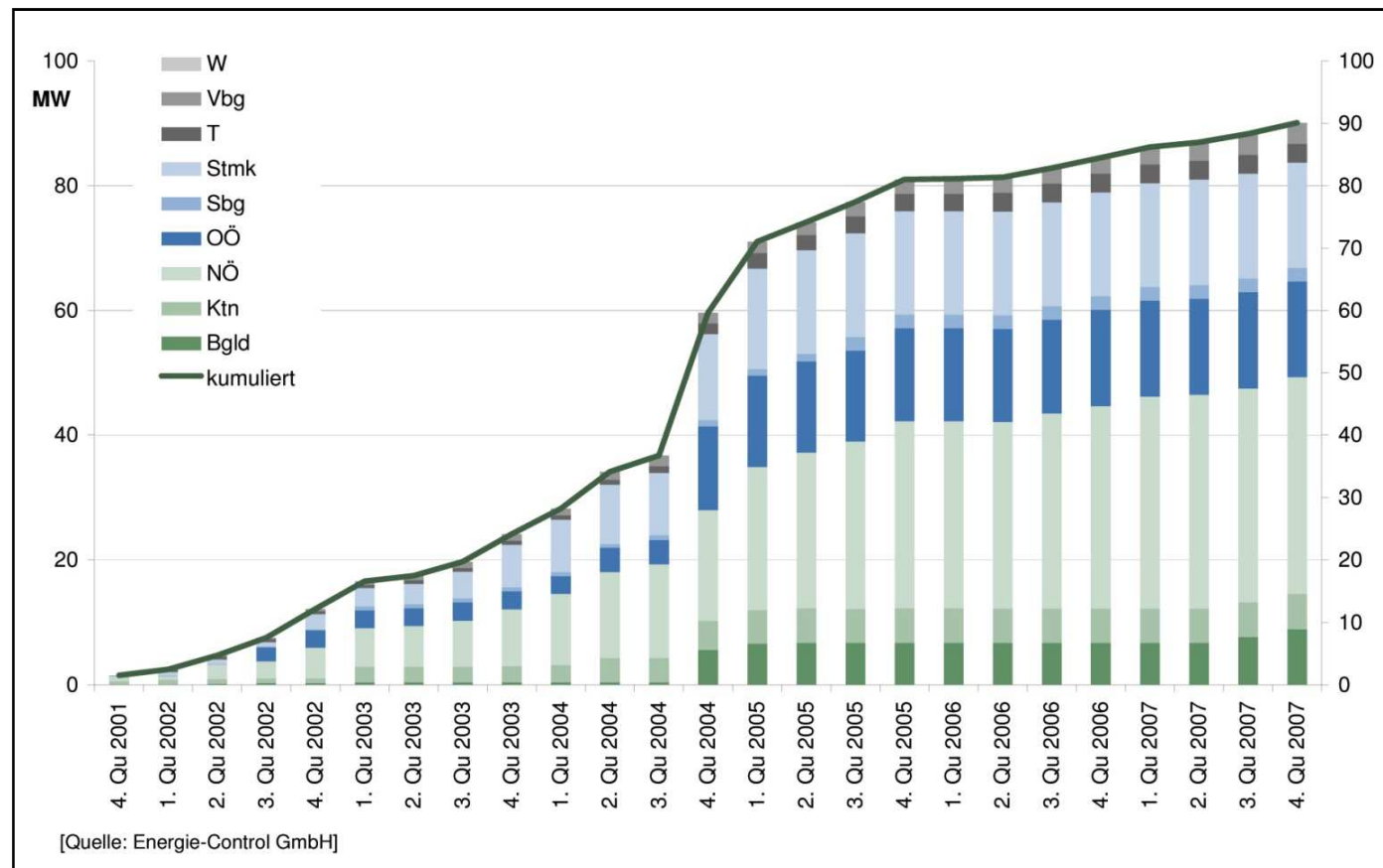
Size of biogas plants in Austria



In the year 2007 the average allowance for electricity from biogas plants was **13,82 Cent/kWh.**

The average size of a biogas plant was 267 kW in the year 2007. The big majority (93 %) of the biogas plants is smaller than 500 kW and only 3 biogas plants are bigger than 1 MW. The biogas plants smaller than 500 kW produce 73 % of the power (66,4 MW).

Green Electricity Act



The Green Electricity Act regulates the support of the expansion of renewable energies in Austria.

The stimulation of expansion is effected via supports of the green energy by feed-in tariffs.

Since the amendment of the Green Electricity Act 2006 the feed-in tariffs have been re-regulated annually.

Feed-in Tariffs 2008

Feed-in Tariffs 2008	electrical Output	Tariffs € Cent/kWh
Biogas plants using agricultural input material (using manure, corn silage, grass,..)	up to 100 kW	16,93
	101 to 250 kW	15,13
	251 to 500 kW	13,98
	501 to 1000 kW	12,38
	Above 1001 kW	11,28
Biogas plants using waste products as co-fermentation	Tariffs according to electrical output minus 30 %	

This tariffs are guaranteed for a time of 10 years. In the 11th year a 25 % reduced tariff is paid. In the 12th year a 50 % reduced tariff and at least the price on free market is paid.

Depending on the used technology it is also possible to gather additional subsidies for the construction of the biogas plant.

ING GERHARD AGRINZ GMBH



Thank you for your attention !!

Consulting & Information

Ing. Gerhard Agrinz GmbH

A-8430 Leibnitz, Emmerich-Assmann-Gasse 6
E-Mail: office@agrinz.at, Home: www.agrinz.at
Tel.: +43 3452/73997-0, Fax: +43 3452/73997-9