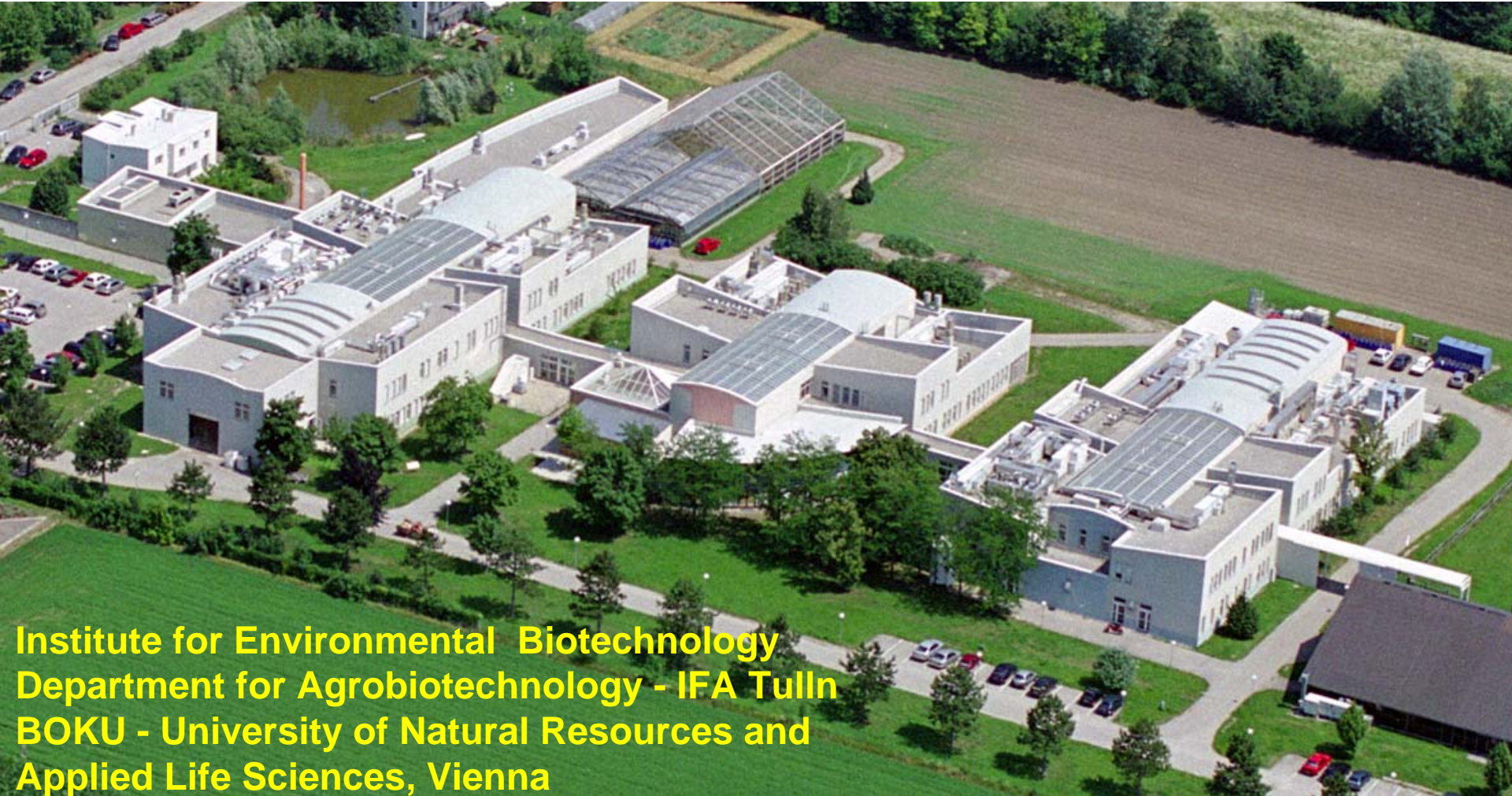


# Short Report - Status Austria - 2008

R. Braun

Ludlow, 18.4. 2008



# Renewable Energy Sources in Austria

(Statistics Austria, 2001)

Hydropower	151 PJ $\approx$ 11.6 % of PED <sup>1)</sup>
Others	142 PJ $\approx$ 11 % of PED
Total PED in Austria	1,290 PJ
<b>OTHERS</b>	
Firewood	69.2 %
Industrial residual waste liquors	15.6 %
Combustible waste	7.3 %
Heat pump	4.9 %
<b>Biogas, sewage gas, landfill gas</b>	<b>1.6 %</b>
Straw	1.0 %
Wind- & solar energy	0.4 %
100,0 %	

<sup>1)</sup> Primary energy demand

# Austrian Eco Electricity Act “Ökostromgesetz”

BGBl. II Nr. 508/2002

BGBl. II Nr. 401/2006

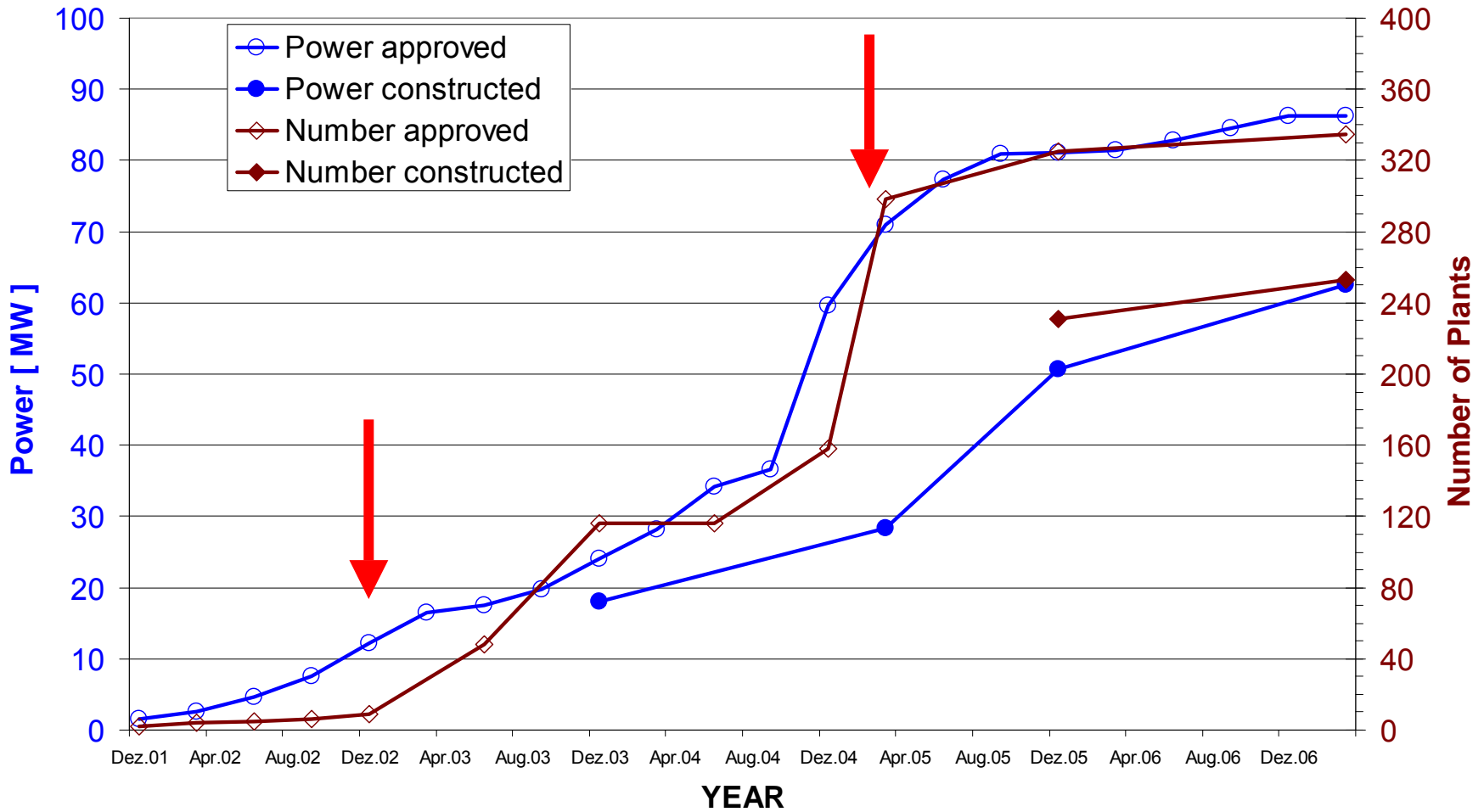
Installed capacity (kW)	Feed-in tariff old (€cent / kWh)	Feed-in tariff new (€cent / kWh)
< 100	16.5	17
100-250	14.5	15.2
250-500	14.5	14.1
500-1,000	12.5	12.6
> 1,000	10.3	11.5
Tariff guranteed for	13 years	10 years
Tariff reduction in co-digestion	25 %	30 %

# Biogas Plants in Austria

Source	Number of Plants	Mio m <sup>3</sup> Biogas per Year	% of Total Biogas
Landfills	62 Grey Waste - Landfill Gas Recov. Pl.	45-100	21.3
Sewage sludge	134 Sewage sludge digesters	75 - 100	25.8
Agriculture <sup>1</sup>	~350 Biogas- u. Co-Fermentation Plants	121 - 182	44.6
Industry <sup>1</sup>	25 Anaerobic Wastewater Treatment Pl.	9 - 14	3.4
Municipalities <sup>1</sup>	~15 Biowaste Digestion Plants	15 - 18	4.9
<b>TOTAL</b>		<b>265 - 414</b>	<b>100</b>

1) Estimation

## Biogas Plants in Austria Data: e-control Austria



# Recent activities in Austria

- Amendment of the “ÖKOSTROMGESETZ“ (Renewable Energy) BGBl. 105/2006; Economic pressure through increased raw material costs; Rarely new plants opened in 2007
- Platform Bio-CNG for the advanced implementation of gas vehicles (200 Bio-CNG fuelling stations in 2010)
- Continued activities in biogas upgrading and grid feed in; First biogas fuelling station in Eugendorf-Reitbach, Salzburg
- New membrane biogas upgrading (CO<sub>2</sub> – removal) technique in operation (Bruck / Leitha); Techn. Univ. Vienna (M. Harasek)
- Efforts for the amendment of the ÖVGW guidelines G 31 & G 33, currently excluding sewage gas and landfill gas from grid injection

## (cont.)

- Merging of Austrian Bioenergy Center (ABC) and Renewable Energy Network (ReNet) to create the Austrian Biofuel Center Güssing (K1 center, Comet programme); project approved in september 2007, start in 2008; project duration 4 + 4 years
- Final Report on Evaluation of 41 Austrian Full Scale Energy Crops approved (in German language)
- Success stories form Austrian Energy Crops digestion plants Strem, Reilding, available at Task 37 website
- Industry Forum contributions form bio-waste treatment plant Markgrafneusiedl and biogas grid injection plant Pucking available
- Vienna Biogas plant (17,000 t/y food leftovers, market waste, bio-wastes) in operation since september 2007
- First Austrian Bio-ethanol plant Pischelsdorf (240,000 m<sup>3</sup> capacity) opened in Oct. 2007 / Closed down in december 2007 / reopening?





