






IEA
Workshop



HEAT PUMP MARKET DEVELOPMENT IN AUSTRIA AND EUROPE

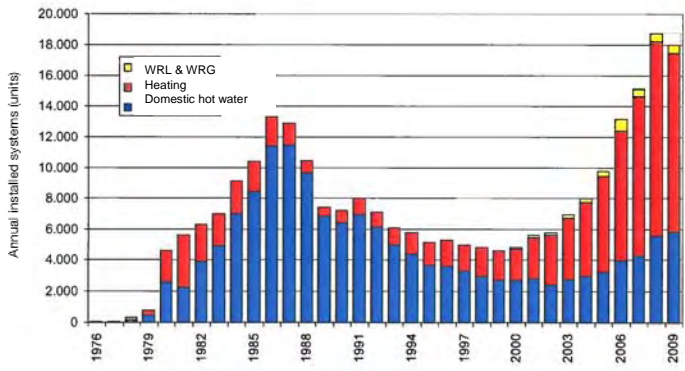
Andreas Bangheri,
Chairman LGWA Austrian Heat Pump Association
(Leistungsgemeinschaft Wärmepumpe Austria) /
CEO of Heliotherm Wärmepumpentechnik Ges.m.b.H.

Heat Pump Market Development in Austria and Europe

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Market development of heat pumps in Austria until 2009



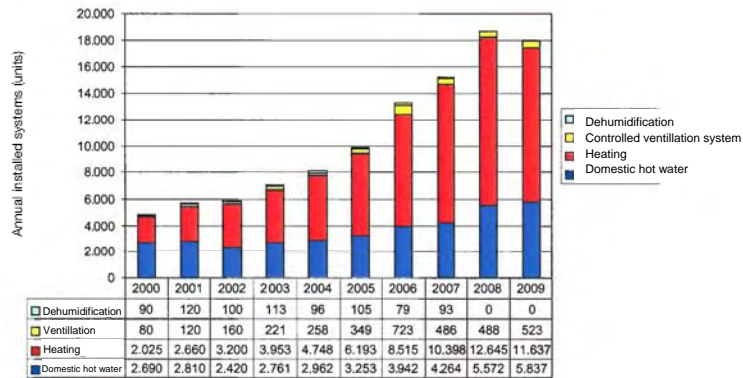
Year	Domestic hot water	Heating	WRL & WRG	Total
1976	0	0	0	0
1979	100	100	0	200
1982	2000	2000	0	4000
1985	4000	4000	0	8000
1988	6000	6000	0	12000
1991	6000	2000	0	8000
1994	4000	2000	0	6000
1997	3000	2000	0	5000
2000	3000	2000	0	5000
2003	3000	4000	0	7000
2006	4000	8000	1000	13000
2009	6000	12000	1000	19000

Source: until 2006: Fahninger (2007); from 2007 EEG

Heat Pump Market Development in Austria and Europe



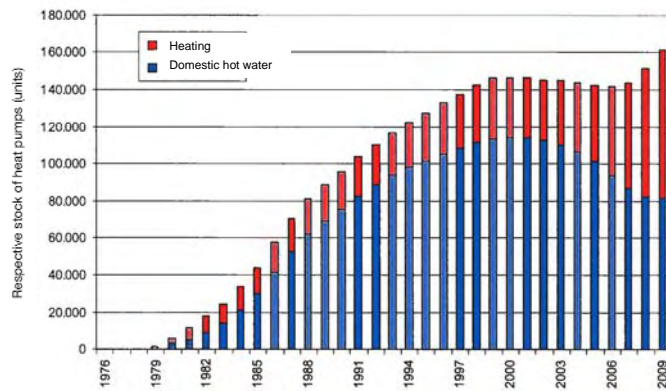
Market development of heat pumps in Austria, 2000 - 2009 by category



Source: EEG



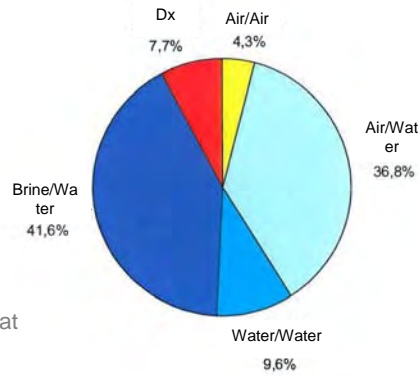
Cumulative stock of heat pumps in Austria, under the assumption of a technical lifetime of 20 years



Source: EEG



Frequency of heat source systems of heat pumps in 2009

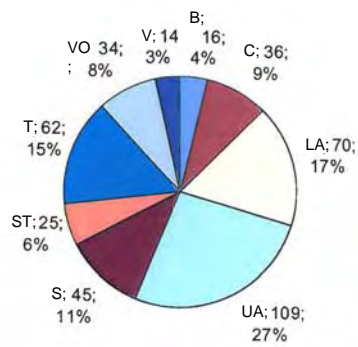


>> in total 12.159 Heat Pumps

Source: EEG



Sponsored commercial heat pump systems in 2009 Spread among the provinces in quantities

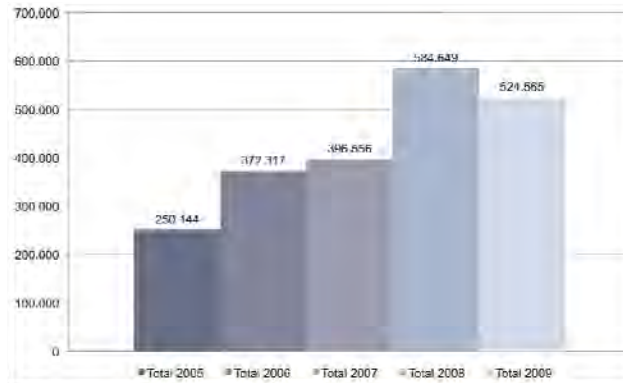


Source: KPC

B	Burgenland
C	Carinthia
LA	Lower Austria
S	Salzburg
ST	Styria
T	Tirol
UA	Upper Austria
V	Vienna
VO	Vorarlberg



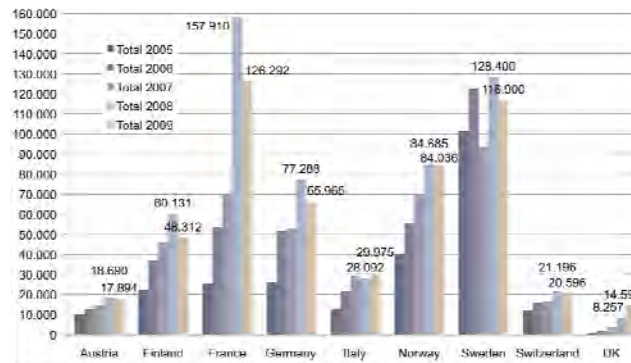
European heat pump sales 2005 - 2009



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



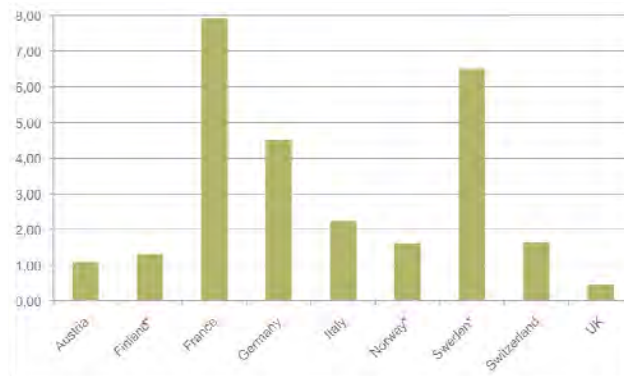
Heat pump units sold 2005 - 2009 per country



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



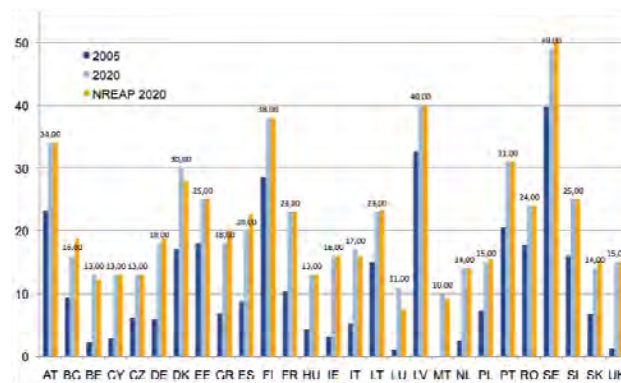
Renewable energy from heat pumps installed 2005 - 2009 (in TWh)



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



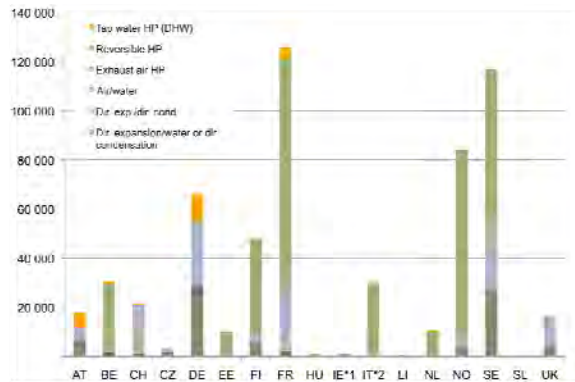
Summary table of MS targets and expected surplus/deficit



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



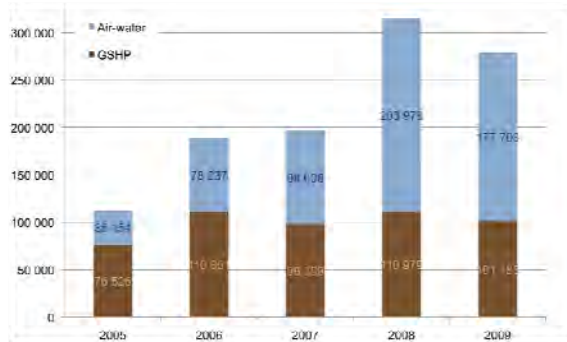
Heat pump sales per country and type on the European market 2009



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



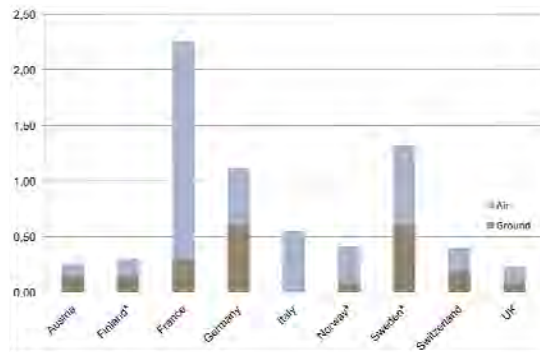
Development of sales of Air/Water vs. GSHP units 2005-2009



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



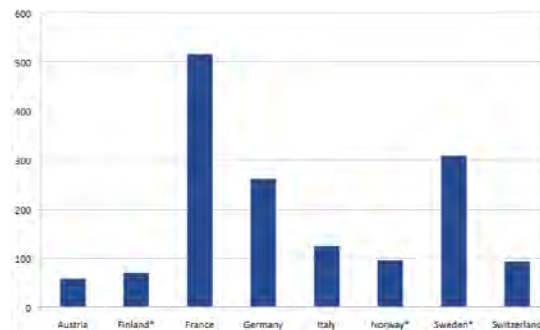
Renewable contribution from air source and GSHP units heating only (2009, in TWh)



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



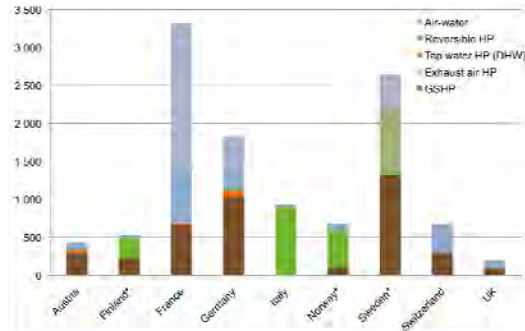
Greenhouse gas emissions savings (2009, in Mt)



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



Accumulated greenhouse gas emissions savings (2005-2009, in Mt)



Source: EHPA (Outlook 2010, European Heat Pump Statistics)



Thank you for your attention!

Andreas Bangheri,
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(Leistungsgemeinschaft Wärmepumpe Austria) /
CEO of Heliotherm Wärmepumpentechnik Ges.m.b.H.