



Market Research Analyst: Bioethanol in Europe

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Consumption of Bioethanol in EU (GWh)

No	Country	2006	2005
1	Germany	3,573	1,682
2	Sweden	1,895	1,681
3	France	1,747	871
4	Spain	1,332	1,314
5	Poland	611	329
6	UK	561	502
7	Netherlands	238	0
8	Hungary	125	28
9	Lithuania	99	10
10	Czech Rep.	14	0
11	Finland	9	0
12	Ireland	8	0
13	Italy	0	59
14	Latvia	0	5
27	EU	10,210	6,481

1 toe = 11,63 MWh

The consumption of bioethanol is largest in Europe in Germany, Sweden, France and Spain. Europe produces equivalent to 90% of its consumption (2006). Germany produced ca 70% of its consumption, Spain 60% and Sweden 50% (2006). In Sweden there are 792 E85 filling stations and in France 131 E85 service stations with 550 more under construction.

On Monday, September 17, 2007 the first ethanol fuel pump was opened in Reykjavik, Iceland. This pump is the only one of its kind in Iceland. The fuel is imported by Brimborg, a Volvo dealer, as a pilot to see how ethanol fueled cars work in Iceland. In a few weeks, the pump will be opened for public use.

In The Netherlands regular petrol with no bio-additives is slowly outphased, since EU-legislation has been passed that requires the fraction of nonmineral origin to become minimum 5,75% of the total fuel consumption volume in 2010. This can be realized by substitutions in diesel or in petrol of any biological source; or fuel sold in the form of pure biofuel. There are only a few gas stations where E85 is sold, which is an 85% ethanol, 15% petrol mix (2007). Directly neighbouring country Germany is reported to have a much better biofuel infrastructure and offers both E85 and E50. Biofuel is taxed equally as regular fuel. However, fuel tanked abroad cannot be taxed and a recent payment receipt will in most cases suffice to prevent fines if customs check tank contents. (Authorities are aware of high taxation on fuels and cross-border fuel refilling is a well-known practice.)

All Swedish gas stations are required by an act of parliament to offer at least one

alternative fuel, and every fifth car in Stockholm now drives at least partially on alternative fuels, mostly ethanol.

Stockholm will introduce a fleet of Swedish-made electric hybrid buses in its public transport system on a trial basis in 2008. These buses will use ethanol-powered internal-combustion engines and electric motors. The vehicles' diesel engines will use ethanol.

Production of Bioethanol in EU (GWh)			
No	Country	2006	2005
1	Germany	2,554	978
2	Spain	2,382	1,796
3	France	1,482	853
4	Sweden	830	907
5	Italy	759	47
6	Poland	711	379
7	Hungary	201	207
8	Lithuania	107	47
9	Netherlands	89	47
10	Czech Republic	89	0
11	Latvia	71	71
12	Finland	0	77
27	Total	9,274	5,411

100 l bioethanol = 79,62 kg, 1 tonne
bioethanol = 0,64 toe