

Implementation of the sustainability criteria of the Renewable Energy Directive in Hungary



Production of biodiesel

- biodiesel:
- Bábolna (50 thousand t/year)
 - Komárom (150 thousand t/year)
 - Mátészalka, Kunhegyes (2-5 thousand t/year)
 - 8 small scale crude oil production facility- planned

Total biodiesel production capacity was 180 thousand tonnes in 2008.



bioethanol:

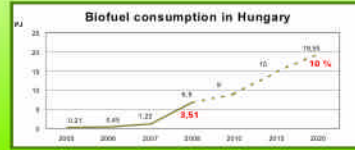
- Szabadegyháza (150 thousand tonnes)
- Győr (only for food)
- Dunaföldvár (200 mil l/year), Kaba (100th m3/year), Dunaalmás (124th m3/year) bioethanol production facility- planned
- 30 small scale (<30 kt/year) row alcohol production facility- planned

Total bioethanol production capacity was 190 thousand tonnes in 2008.



Current situation of biofuels

73 thousand tonnes of bioethanol and 133 thousand tonnes of biodiesel were consumed in 2008.



- 4.4 vol% of bioethanol since 1st July 2007.
- 4.4 vol% of biodiesel since 1st January 2008.
- 5.75% biofuel ratio per total energy fuel content has to be reached in 2010, which means 144 thousand tonnes bioethanol and 183 thousand tonnes biodiesel production is needed. In 2008 the biofuel ratio reached 3.51%.

- E85 is available on the market since 2007. Now available in 80 petrol stations
- Excise Tax Act of 2005: excise tax differentiation. The tax was replaced by 4,8% obligatory blending rate in 1st July 2009.

International example

Year	Country	Production (PJ)	Consumption (PJ)	Ratio (%)	Notes
2005	USA	100	100	100	...
2006	USA	150	150	150	...
2007	USA	200	200	200	...
2008	USA	250	250	250	...
2009	USA	300	300	300	...

Source: <http://www.renewablefuelsagency.gov.uk>

State of implementation

- Provisions of future biofuel production and consumption were set in the „Strategy for the Increased Utilization of Renewable Energy in Hungary 2007-2020“
- E10 fuel standard is just before publication
- The REAP is under development by the Hungarian Energy Office
- a Biofuel law can be expected in 2010, which will contain the follows:
 - compliance with RED
 - possible blending ratio
 - responsibilities of authorities
 - sanctions
 - enabling provisions, which will allow development of specific regulations (sustainability requirements, chain of custody, etc.)



Potentials

To reach the 10% biofuel ratio per total energy fuel content in 2020, there is a need for 291 thousand tonnes of bioethanol and 394 thousand tonnes of biodiesel.

- Maximum potentials based on the calculation of the Ministry of Agriculture and Rural Development (above future food and fodder need):
- 1,2 million tonnes bioethanol per year = 36 PJ energy content
 - 250 thousand tonnes biodiesel per year = 9,5 PJ energy content

National strategy

Carbon and Sustainability criteria reporting guidance developed by Renewable Fuels Agency, UK and the German approach will be the basis of the Hungarian sustainability certification system. Reporting requirements will be provided by the suppliers and control will be done by the agricultural offices and the excise authorities.



Energy Centre Nonprofit Ltd.
Contact: Tamás Simon
e-mail: tamas.simon@energycentre.hu
simon@4biomass.eu
Phone: +36-1-802-43-31



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND



This project is implemented through the CENTRAL EUROPE Programme co-financed by the ERDF and the Republic of Hungary

"Promoting sustainable bioenergy production and use – Challenges ahead for EU wide implementation of RES Directive 2009/28/EC" Workshop 11th and 12th March 2010, Berlin, Germany