



Kick-off Meeting of the Project: BIODIESEL CHAINS
Promoting Favorable Conditions to Establish Biodiesel
Market Actions

Athens, 27 – 28 February 2005

Biodiesel in Bulgaria
General Information

Ilian Jeliazkov

ESD Bulgaria Ltd.

Contents:

1. Brief presentation of ESD Bulgaria
2. History of biodiesel developments in Bulgaria
3. Rape seed and sunflower seed production in Bulgaria
4. Existing legal incentives

Brief presentation of ESD Bulgaria

Founded in 1998

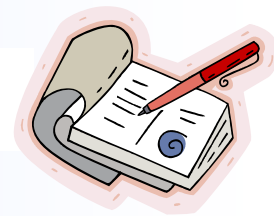
Private company, subsidiary of ESD Ltd.

Activities:



Energy consulting

Local sustainable energy planning



Energy efficiency

Brief presentation of ESD Bulgaria

Renewable energy



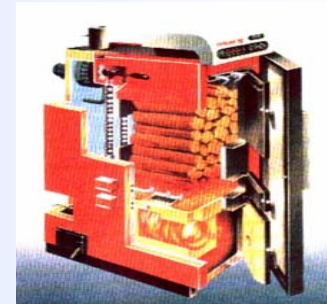
**Solar
thermal
systems**



**Geothermal
energy**



**Small
hydro**



**Biomass
energy**

Carbon trading

History of biodiesel developments in Bulgaria (1)

Biodiesel production started in 2001

by the company SAMPO AD (<http://www.biodiesel.bg>)

-Capacity: 3 000 t/a

-Production in 2001: 26 t (clients: fuel distributors and the transport company Trayana Trans)

-Other products: pharmaceutical glycerin and potassium phosphate

-Raw material: mostly used cooking oil (supplied by McDonalds, KFC, Happy, etc.)

- Standard: Technical Specification TC 0301 (similar to EN 14214)

-The company offers also supply of biodiesel production equipment

**The commissioning of the plant was made in the presence of
Dr. R. Cruz, from ACDI/VOCA, FLAG consortium, USA**

History of biodiesel developments in Bulgaria (2)



The biodiesel plant of SAMPO in Brussartzi (North West Bulgaria, close to the river Danube)

History of biodiesel developments in Bulgaria (3)

The Trade Storehouse in Gabrovo

- Equipment produced by M Engineering (Veliko Tirnovo)**
- Capacity: about 500 t/a**
- Started operation in 2003**
- The biodiesel is used as a fuel of the trucks of the company and for heating of the premises during the winter**

History of biodiesel developments in Bulgaria (4)

The company Green Oil Ltd., Silistra

(<http://greenoil.hit.bg>)

- Equipment, produced by Green Oil Ltd.**
- Capacity: 15 000 t/a**
- In process of commissioning**
- Among the clients is the company Prista Oil – it operates the oil refinery in Rousse and is also a fuel distributor**
- Raw material: sunflower oil, rape oil, used cooking oil**
- Standard: BDS EN 14214**

History of biodiesel developments in Bulgaria (5)

Biodiesel equipment producer:

M Engineering - Pencho Ganev ET (Veliko Tirnovo)

<http://www.biodiesel-bg.narod.ru/>

-Installations with capacity: 60 l/h, 200 l/h, 300 l/h, 400 l/h and 1000 l/h and more

-Period for equipment manufacturing, installation and staff training: 65 days

-Have supplied the equipment for the plant in Gabrovo (2003)

-In 2004 have supplied an installation in Jalgava, Latvia with capacity 5 000 t/a

History of biodiesel developments in Bulgaria (6)



The installation in Jalgava, Latvia

History of biodiesel developments in Bulgaria (7)

Future investment project, developed by Ecopetroleum Industries EAD for a plant, to be constructed in Vidin, with its own port on the Danube river.

Planned capacity: 150 000 t/a

Investment: 60 million Euro

Raw material: 400 000 t/a rape seed, to be grown on about 250 000 ha in 4 regions in North-West Bulgaria (Vidin, Montana, Vratza and Pleven)

Staff: 60 – 100 persons

Project schedule: plans are to start with organizing of associations of rape producing farmers. Plant construction is scheduled for 2008.

Rape seed and sunflower seed production in Bulgaria

Rape seed (2004 data)

Cultivated area: 13 169 ha

Yield: 22 388 t (70% of the yield comes from North-Eastern Bulgaria)

Average price: 207 Euro/t

Sunflower seed for oil production (2004 data)

Cultivated area: 559 363 ha

Yield: 1 078 832 t

Average price: Euro 205 Euro/t

Source: Yields of Agricultural Crops – 2004, a publication downloaded from the web site of the Ministry of Agriculture and Forestry

<http://www.mzgar.government.bg/>

Existing Legal Incentives

The new Bulgarian Law on Excise Duties and Storage Taxes (from 15 November 2005) specifies a zero excise tax for biodiesel (article 32 and 33).

Thanks!

Ilian Jeliazkov

ilian@esdb.bg

www.esdb.bg