



PRESENTATION OF THE BIODIESEL PLANT

(PRODUCTION CAPACITY 100 000 TONS OF FAME A YEAR)



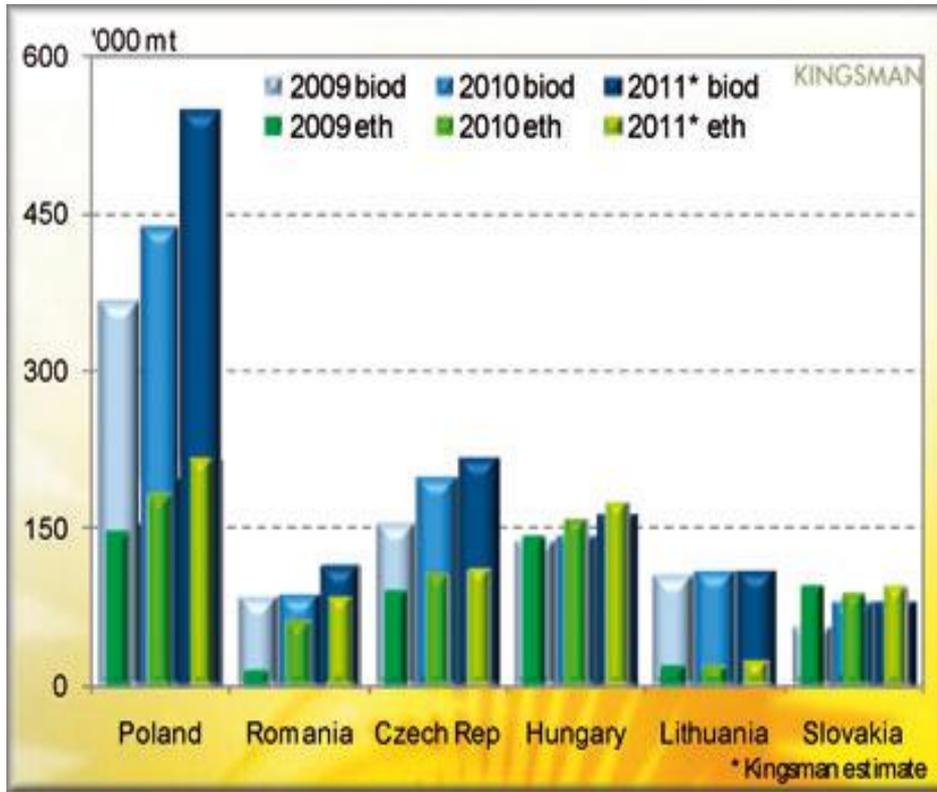
- **Biodiesel Market – Focus on Europe / Central and Eastern Europe**
- **Biodiesel and its Classification in Czech Republic (CZ)**
- **Main Feedstock for Biodiesel Production in CZ**
- **Biodiesel Prices and Trading**
- **Introduction of FAME Usti nad Labem, jsc**

Market is dominated by the same countries as in 2010 (Germany, France, Spain, Italy, UK and Poland) – with 75% share in the demand and 70% in supply

- **France: overcomes Germany as the main consumer in 2010**
- **Germany: remains top producer**
- **Spain: the most significant increase in consumption (50%).**
- **Poland: to increase consumption by about 25%**
- **Italy: Consumption looks set to grow by about 5%**
- **Germany: biodiesel usage is expected to remain constant**
- **UK - Bucking the trend: consumption could fall**



EASTERN EUROPE ON THE WAY UP IN BIOPRODUCTS



Regional biofuels production figures for the main eastern EU countries (2009, 10, 11)

Eastern Europe is beginning to unveil an important biofuel and agricultural potential. **Dr Covrig** reviews the progress that eastern EU countries have made toward exploiting disposable arable land for the production of biofuels.

View online at www.wileyonlinelibrary.com); DOI: 10.1002/bbb.300, *Biofuels, Bioprod. Bioref.* 5:233–237 (2011)



Biofuels blending mandates and targets in 2011

BIODIESEL AND ITS CLASSIFICATION IN CZECH REPUBLIC

DIESEL (EN 590)

B7

- Volume of FAME in quality standard ČSN EN 14214 max. 7,0 %V/V
- Validity of the ČSN EN 590 from October 1st, 2009

B30 BIODIESEL

SMN 30 = Blend of fossil diesel and RME

- Volume of 70% of fossil diesel + min. 30% of RME
- Quality standard ČSN 656508

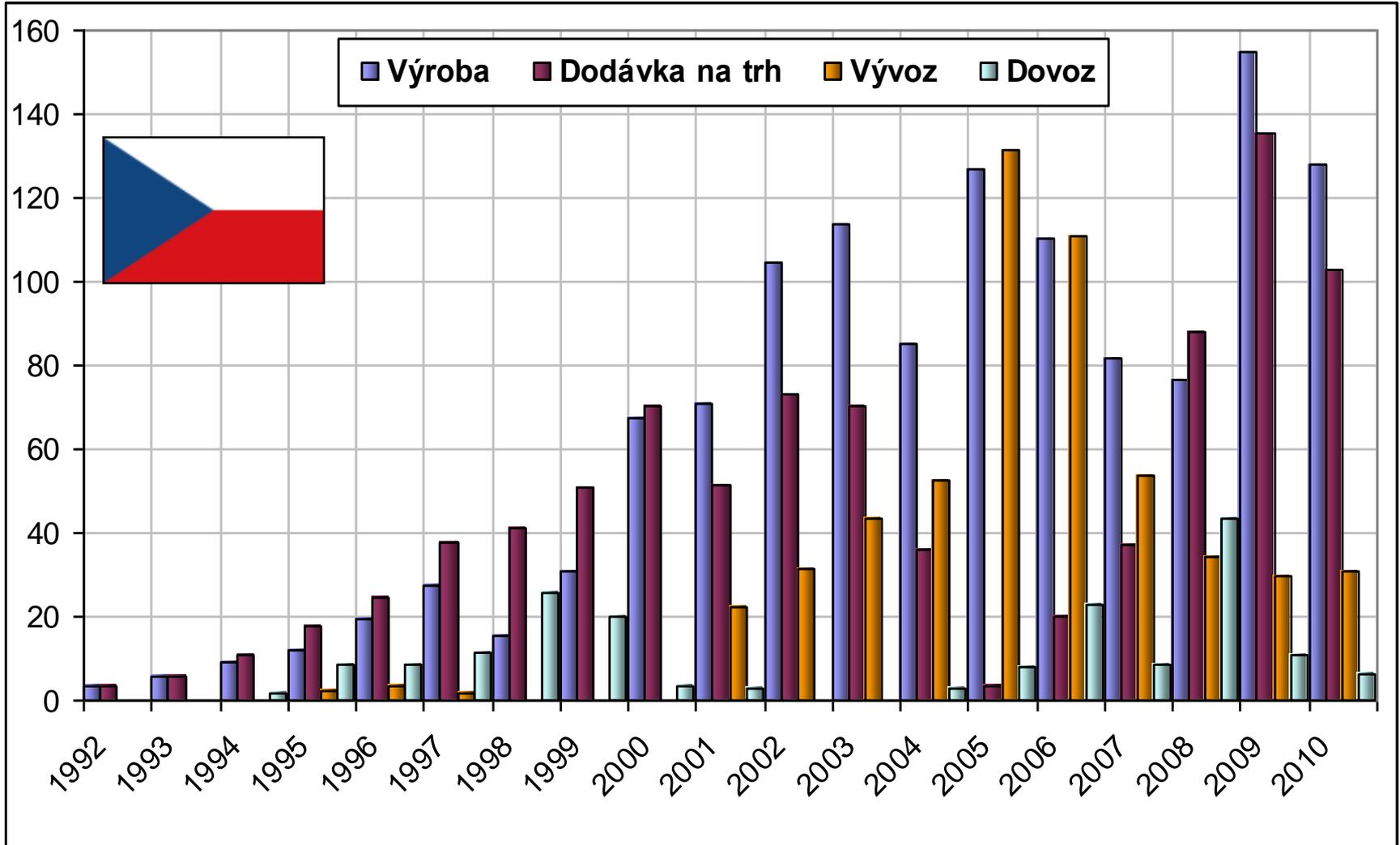
B100 BIODIESEL

FAME = Fatty Acid Methyl Ester

- Quality Standard ČSN EN 14214
- Name: FAME – for mandatory blending to fossil diesel
- Name: Biodiesel B100 – 100% biodiesel for diesel engine
- Different kinds of FAME (RME, SME, PME, etc)



BALANCE OF FAME PRODUCTION/TRADE IN CZ (1992-2010)



MAIN FEEDSTOCK FOR BIODIESEL PRODUCTION IN CZ

FOOD FEEDSTOCK

Main Vegetable Oil:
rapeseed oil



NON – FOOD FEEDSTOCK

Used Cooking Oil (UCO), etc



85% of Biodiesel Production Costs from Feedstock

FAME Usti nad Labem, jsc



HISTORY:

- Chemoprojekt built as EPC contractor a new biodiesel plant for the production of fatty acid methyl ester (FAME) for SETUZA in year 2007
- Production capacity of this biodiesel plant is 100,000 tons of FAME/year
Chemoprojekt constructed also storage facilities adjacent to the biodiesel plant
- The biodiesel plant started production at the beginning of 2008
- Chemoprojekt took a leasing from Raiffeisenbank to finance the project, but SETUZA was not able to pay it back
- Chemoprojekt took over the leasing from Raiffeisenbank
- Chemoprojekt is now a 100% owner of the plant via its 100% company BioVis



FAME Usti nad Labem, jsc



- Company is joint venture of Safina Services (from Chemoprojekt side of business) and Nationwide Asset Management (from SETUZA side of business)
- Company was established in august 2010
- Company leases the biodiesel plant including buildings/properties from BioVis (100% owned by Chemoprojekt, jsc) and other facilities from local partners
- Company produces methyl esters and it is open to any kind of co-operation (vegetable oils and UCO supplies, FAME/RME/UCOME sales)

However, currently FAME Usti nad Labem favors finding a strategic partner which would take the production later on (in the midterm)



FAME Usti nad Labem, jsc



Production capacity of this biodiesel plant is 100 000 tons of FAME a year

Production technology includes these units:

- physical deacidification of crude degummed oil
- transesterification (continuous process in two steps)
- methanol recovery unit
- crude glycerin treatment unit up to technical grade quality (purity of glycerine 80-85%)
- storage facilities and logistics (for both road and railway transport)

Designer and supplier of this plant was Chemoprojekt, a.s. Prague (EPC Contractor)

Technology is based on DeSmet Ballestra know-how and key equipment



FAME Usti nad Labem, jsc



Competences for operating Biodiesel Plant:



- Joint venture with SETUZA has knowledge and competence
- Advantages of the location in former SETUZA production area
 - Concentrated production in one location
 - Pressing and extraction unit over the road with available pipe connection
 - Sufficient storage capacities for both raw materials and finished products
 - Attractive logistics location with direct access to rail, road and river port



- ISO 9001 & 14000 Certificates (TUV NORD)
- REACH (EBB)
- ICSS (Bureau Veritas)
- IWTL (for export to Poland – PKN ORLEN)

CERTIFICATES & LICENCES

CERTIFICATE TÜV NORD

Management system as per
EN ISO 9001 : 2008

In accordance with TÜV NORD CERT procedures, it is hereby certified that

FAME Ústí nad Labem, a.s.
Žukovova 100
401 29 Ústí nad Labem - Střekov
Czech Republic

with the sites acc. to the annex

applies a quality system in line with the above standard for the following scope

Production of FAME.

Certificate Registration No. 41 106 115014
Audit Report No. 700 279010

Valid until 2014-07-04

Certification Body of
TÜV NORD CERT GmbH

Praha, 2011-07-04

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification subject to regular surveillance audits.
The annex (1 page) is the integral part of the certificate.
TÜV NORD CERT GmbH Langensackstrasse 20 45141 Essen



CERTIFICATE TÜV NORD

Management system as per
EN ISO 14001 : 2004

In accordance with TÜV NORD CERT procedures, it is hereby certified that

FAME Ústí nad Labem, a.s.
Žukovova 100
401 29 Ústí nad Labem - Střekov
Czech Republic

with the sites acc. to the annex

applies a management system in line with the above standard for the following scope

Production of FAME.

Certificate Registration No. 44 184 115114
Audit Report No. 710 123010

Valid until 2014-07-03

Certification Body of
TÜV NORD CERT GmbH

Praha, 2011-07-04

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification subject to regular surveillance audits.
The annex (1 page) is the integral part of the certificate.
TÜV NORD CERT GmbH Langensackstrasse 20 45141 Essen



AIR FORCE INSTITUTE OF
TECHNOLOGY

CERTIFICATION OFFICE

Księcia Bolesława 6 street, 01-494 Warsaw, Poland

Obwieszczenie MG
z dnia 19.03.2010 r.
(M.P. Nr 17, poz. 183)

ANNEX No 1

TO QUALITY CERTIFICATE No 80/200

Rozporządzenie MG z dnia 19.03.2010 r. (Dz. U. Nr 61, poz. 379)

Name and address of annex owner: FAME Ústí nad Labem, a.s.
Žukovova 100/27, 400 03 Ústí nad Labem, Czech Republic

Production site: FAME Ústí nad Labem, a.s.
Žukovova 100/27, 400 03 Ústí nad Labem, Czech Republic

Biocomponent type: Estry metylowe wyższych kwasów tłuszczowych

Trade name of the product: Biodiesel (FAME) - Estry metylowe wyższych kwasów t

Raw materials used for production: Rapeseed oil

Product conforms to the requirements of: Rozporządzenie Ministra Gospodarki i Pracy z dnia 19.03.2010 r. w sprawie wymagań jakościowych dla biokomponentów metod badań jakości biokomponentów - Załącznik nr 2 (poz. 1845)

According to report from tests performed by: Instytut Techniczny Wojsk Lotniczych
Laboratorium Zakładu Materiałów Pędnych i Smarów

No and date of report: Nr WK-2913-55-0281-08 z dnia 14.10.2008 r.

This annex is valid from 08.03.2011 r. to 22.10.2011 r. for products having properties that as the reference submitted for testing and meeting above mentioned requirements.

KIEROWNIK
LABORATORIUM CERTYFIKACJI WYROBÓW
1704/6
dr inż. Tomasz GŁĘBOWSKI

ZASTĘPCA DYR
INSTYTUTU TECHNOLOGII
08. Wawerska-50
dr hab. inż. Andrzej K...

Warszawa, dnia: 08.03.2011 r.



Certificate

according to Biokraftstoff-Nachhaltigkeitsverordnung (Biokraft-NachV) resp.
according to Biomassestrom-Nachhaltigkeitsverordnung (BioSt-NachV) ¹⁾

DE-B-BLE-BM-10-120-1030326

By certification on 22/02/2011,
as documented in a report according to § 52,
Bureau Veritas Certification Germany GmbH
Vertiskal 1, 21079 Hamburg, Germany,
approves that

FAME ÚSTÍ NAD LABEM a.s.
Žukovova 100/27, Ústí nad Labem, Střekov, Czech Republic
complies with the requirements of the certification system
ISCC System GmbH
Weisenburgstrasse 53, D-50670 Köln, Germany,
which is approved by the Bundesanstalt für Landwirtschaft und Ernährung
and holds the number: DE-B-BLE-BM-10

It is confirmed that the requirements for interferences according to ²⁾

§ 2.3 No. 1	<input type="checkbox"/>
§ 2.3 No. 2	<input type="checkbox"/>
§ 2.3 No. 3	<input checked="" type="checkbox"/>

of Biokraft-NachV and BioSt-NachV are accomplished.

Bureau Veritas Certification
Germany GmbH
Vertiskal 1
21079 Hamburg
Tel.: +49 40 2302700
Fax: +49 40 2302701

Stamp: Signature

Hamburg, 22.02.2011
Place, Date
This certificate is valid 12 months from the date of certification, when starting with most businesses to 30 months or, in the case of very small businesses, 60 months.
The Certification Body is responsible for the accuracy of the certificate.
The Certification Body has the obligation to send a copy of the certificate to BLE within 24 hours after issuance.
¹⁾ Statements in paragraphs refer to both sustainability criteria
²⁾ Multiple answers are possible
Template from the Bundesanstalt für Landwirtschaft und Ernährung (BLE)



MAIN BUSINESS PARTNERS OF FAME USTI NAD LABEM



- PKN ORLEN POLAND, UNIPETROL LITVINOV
- CEPRO, SETA TRADE
- OLEOCHEM

- LISOVNA USTI NAD LABEM
- PREOL, EUROCORP
- TRANSCOR OIL SERVICES
- EVONIK, BRENNTAG, BASF

CONSTRUCTION WORKS OF BIODIESEL PLANT



BIODIESEL PLANT—STORAGE TANKS—LOADING/UNLOADING



CRUSHING MILL AND STORAGE FACILITIES FOR SEEDS AND OILS



CRUSHING MILL AND STORAGE FACILITIES FOR SEEDS ARE LOCATED NEAR BY BIODIESEL PLANT AND ARE CONNECTED WITH OUR BIODIESEL PLANT BY PIPE

STORAGE FACILITIES FOR VEGETABLE OILS AND UCO ARE LOCATED NEAR BY BIODIESEL PLANT AND ARE CONNECTED WITH OUR BIODIESEL PLANT BY PIPE





Thank you for your attention

CONTACT DETAILS:

Chemoprojekt, a.s.

website: [www.chemoprojekt .cz](http://www.chemoprojekt.cz)

email: tcvengros@chemoprojekt.cz