

Biofuels in the Netherlands

Overview of Biofuels in the Netherlands

Around 478 kton of biofuels have been consumed in the Netherlands in 2013 (physical volume). Most of these biofuels (60%) have been produced from wastes and residues which are eligible for double. The total national production of biofuels was about 1789 ktons whereas 1375 kton biodiesel and HVO and 414 kton bioethanol and biomethanol. The overcapacity of biofuels is exported

Biofuels policy, regulations, market development

Implementing the RED, a biofuel obligation has been in place in the Netherlands since 2007 (percentage by energy). The obligation has to be implemented by the oil companies that bring petrol and diesel onto the Dutch fuel market.



Year	Petrol	Diesel	Petrol+ Diesel
2007	2%	2%	2%
2008	2.5%	2.5%	3.25%
2009	3%	3.5%	3.75%
2010	3.5%	3.5	4%
2011	≥3.5%	≥3.5%	4.25%
2012	≥3.5%	≥3.5%	4.5%
2013	≥3.5%	≥3.5%	5%
2014	≥3.5%	≥3.5%	5.5%
2015			6.25%
2016			7%
2017			7.75%
2018			8.5%
2019			9.25%
2020			10%

Country information

Netherlands	
Population	16,919,139
GDP (per capita)	\$48,317
Final Energy Consumption (Mtoe)	51,13
Final Energy Consumption in Transport (Mtoe)	14,8
Final Energy Consumption in Transport Share	29 %
Biofuels share in Transport Fuels	
Fuel-Mix	biofuels gas electricity

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Advanced biofuels demonstration and R&D Projects

BTG - Biomass Technology Group BV - Empyro 25 MWth polygeneration pyrolysis plant to produce electricity, process steam and fuel oil from woody biomass.

The **Woodspirit project** (NER300) will demonstrate the production of bio-methanol in large commercial scale using biomass torrefaction and entrained flow gasification as the new core technologies

BioMCN produces industrial quantities of biomethanol, using glycerin as a feedstock

Neste Oil (Finland) HEFA biorefinery, Rotterdam

Biofuels ministries, organisations and agencies in the Netherlands

EC Joint Research Centre - JRC

ENGVA

European Environmental Bureau

Ministry of Economic Affairs

NEN Netherlands Standardization Institute

NL Agency

NL-BEA Netherlands Bio-energy Association

Partners for Innovation BV

PBL Netherlands Environmental Assessment Agency

Key biofuels industry and research stakeholders

Avantium Technologies BV

BFP International B.V. io

BTG Bioliquids BV

BTG Biomass Technology Group

Centre for Surface Chemistry and Catalysis,
KU Leuven

Delft University of Technology

DNV GL-KEMA

DSM

Dyadic Nederland BV

Ecofys

Energy Research Centre of the Netherlands
(ECN)

FeyeCon D&I BV

LyondellBasell Industries

Petroquantum

Rabobank International

Shell Global Solutions International BV

SkyNRG

TNO

Wageningen University & Research Centre -
AFSG