



Biofuel Projects and Activities in the EU

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Biofuel Cities Reports & Recommendations





Biofuel Projects and Activities in the EU

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Additional information

The Biofuel Cities website can be accessed at: www.biofuel-cities.eu

A great deal of information on the European Union is available on the Internet. It can be accessed through the Europa server: <http://europa.eu.int>

Comments welcome!

The Biofuel Cities Consortium strives to provide relevant and user-friendly services and products, both in terms of quality and quantity of information design and of the actual information supplied. Please help us to improve our work and tailor it according to your needs and wishes! We will carefully evaluate and use all your comments and proposals, please send them to the address mentioned above.



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1. Introduction

This report “Biofuel Projects and activities in the EU” was developed as part of the European Commission funded project, Biofuel Cities (www.biofuels-cities.eu), which provides a stakeholder platform for the application of biofuels.

The purpose of Biofuel Cities is to develop a European Partnership that demonstrates the broad scale use of new and innovative biofuel technologies. Biofuel Cities covers the complete chain from feedstock to biofuels production, distribution and utilisation in vehicle fleets.

The Biofuel Cities European Partnership aims to:

- (a) **build a European Partnership** in which biofuel end-users, suppliers, and those actors setting the frameworks for biofuel applications are invited to form new partnerships for projects and to engage in exchange and networking;
- (b) **independently assess biofuel projects**, both research & development and demonstration orientated projects, as well as local sustainable mobility policies, in order to guide industrial and commercial stakeholders, local governments, the European Commission and others on the implementation of biofuels and energy-efficient vehicles;
- (c) **support biofuel stakeholders** through information, events, tools and publications, as well as guidance on biofuel policies and applications.

2. Aim

The aim of this report is to list European projects and activities¹ in the field of biofuels for transport. Projects and activities in the field of biomass-to-heat, biomass-to-electricity or biofuels for stationary applications are not listed.

The report includes the projects and activities that are added to the database “projects and activities” as part of the Biofuel Cities European Partnership. All data included in this report can also be found on-line in this database via www.biofuel-cities.eu. This report lists the projects per country, facilitating the search through the list of projects.

¹: Definitions for the words “projects” and “initiatives” are given in the Glossary in Chapter 7.



3. Methodology

3.1. About the second version of this report

The listings in this second version of this report are based on biofuel projects that were inputted into the online-database at www.biofuel-cities.eu until July 16, 2008. Input was mainly performed by the project partners from the Biofuel Cities European sixth framework project. About 10% of the projects was inputted by persons outside the group of project partners.

Until June 2009 two more versions of this report will be published. The aim is to increase the amount of projects listed in these next versions, ensure that projects from all European countries are represented, and increase the data quality, by:

- Getting stakeholders enthusiastic about sharing their project information, with a special focus on stakeholders from CEE-countries;
- Further adding of information by the Biofuel Cities project partners;
- Not longer accepting incomplete data fields, starting from the third version of this report.

3.2. About generating the report

Data for this report was generated using the project & activities database of the website www.biofuel-cities.eu by exporting this database to an excel file.

There were 226 data records when the database was exported on July 16, 2008.

Table 1: Project types

Project type
<ul style="list-style-type: none"> • Commercial operation • Public services / non-commercial • Research & development • Piloting, demonstration • Information, training, networking • Policy-making, standardisation • Other

In this report, the projects and activities are listed in two ways:

1. Per country and city in Chapter 5. This allows quick screening of the projects and activities in a country and/or city. This listing includes information on the project type (see Table 1) and the project purpose (see Table 2);
2. In alphabetical order of project titles in Chapter 6. This table also gives abstracts of the projects, the project status and websites for more information.



Table 2: Types of project purpose

Project purpose	
Contribution to biofuel chain	
	<ul style="list-style-type: none"> • Feedstock production • Feedstock transport, storage, distribution, dispensing • Biofuel production • Biofuel transport, storage, distribution, dispensing • End use
Other project purposes	
	<ul style="list-style-type: none"> • Support procurement, purchasing policies • Support economic development • Improve air quality • Protect climate • Advance energy efficiency • Vehicle production • Improve environment • Other purpose (please specify)

4. Distributing the report

This report "Biofuel Projects and Activities in the EU" will be available through www.biofuel-cities.eu.

Besides, this version of the "Biofuel Projects and Activities in the EU" report will be distributed under all Biofuel Cities participants:

- It will be send to the participants that have entered a project or that are known to be project leader of one of the projects in the database.
- It will be send to all other participants to the European partnership with the request to add projects and activities to the database and in this way contribute to making a complete list of projects and activities throughout Europe.

By the beginning of 2009, version 3 of this report will be issued.



5. Projects and activities listed per country and city

This chapter gives a list of the projects and activities in alphabetical order of country and city. This list includes the type of project and the project purpose, but does not include the status, abstract and website of the project which are included in the second list in Chapter 6. This information can also be found on the website www.biofuel-cities.eu, under “projects & activities directory”. This directory on the website also gives more detailed information, such as further contact details, project duration, project size, and numbers on funding/investment. On this website, projects can easily be found by typing the acronym or part of the title in the search box.

Projects sorted per country and city

Country	City	Title of project / activity	Acronym	Type of project	Project purpose												
					Feedstock production	Feedstock transport, storage, distribution, dispensing	Biofuel production	Biofuel transport, storage, distribution, dispensing	End use	Support procurement, purchasing policies	Support economic development	Improve air quality	Protect climate	Advance energy efficiency	Vehicle production	Improve environment	
Austria	Arnoldstein	Biodiesel Kärnten - biofuel production		Commercial operation			X										
Austria	Bruck an der Leitha	Oilmill Bruck - biofuel production		Commercial operation			X										
Austria	Grambach	Biodiesel International	BDI	Commercial operation, R & D							X						X
Austria	Graz	100% biodiesel bus fleet in Graz	CIVITAS - TRENDSETTER - Graz, buses	Piloting, demonstration					X								
Austria	Graz	878 Taxi fleet using biodiesel from used cooking oil in Graz	CIVITAS - TRENDSETTER - Graz, taxis	Piloting, demonstration				X	X								
Austria	Graz	Strengthening the knowledge of local management agencies in the transport field	COMPETENCE	Information, training, networking													
Austria	Graz	Sustainable Green Fleets	SUGRE	Other					X								
Austria	Güssing	Bio-SNG-fueling station		R & D, Piloting, demonstration				X									
Austria	Mureck	Municipality Mureck		Commercial operation, Piloting, demonstration					X						X		X


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Austria	Mureck	SEEG Mureck - biofuel production		Commercial operation, Piloting, demonstration			X										
Austria	St. Pölten	The 35-tractor project in Austria		Commercial operation					X								
Austria	Wien	Biodiesel Vienna - biofuel production		Commercial operation			X										
Austria	Wien	Natural Energy Oil - trading with biofuels and its raw materials	NEO	Commercial operation		X		X									
Austria	Wieselburg	Stability of biodiesel	BIOSTAB	R & D						X							
Austria	Wöllersdorf	"energy holding" - biodiesel production and energy trading		Commercial operation		X	X										
Belgium	Aalst	Bio-ethanol production plant	Tate & Lyle	Commercial operation			X										
Belgium	Brussels	An integrated approach for biogas production with agricultural waste	AGROBIOGAS	R & D			X										
Belgium	Brussels	Biofuel Cities	CABCEP	Information, training, networking													
Belgium	Brussels	Competitive hydrogen from agro-forestry residues		R & D, Piloting, demonstration			X										
Belgium	Brussels	Measuring on PPO/Biodiesel cars		Public services / non-commercial				X	X	X							
Belgium	Brussels	Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations	BIOPROS	R & D, Piloting, demonstration	X												
Belgium	Ertvelde	Biodiesel production plant	OLEON	Commercial operation			X										
Belgium	Feluy	Biodiesel production plant	NEOCHIM	Commercial operation			X										
Belgium	Ghent	Biodiesel production plant	BIORO	Commercial operation			X										
Belgium	Ghent	Bio-ethanol production plant	Alco Bio Fuel	Commercial operation			X										
Belgium	Ghent	Ghent Bio-energy Valley		Commercial operation, R & D			X	X		X							
Belgium	Gistel	Flanders Bio Fuel		Commercial operation			X										
Belgium	Louvain-la-Neuve	Boosting Bioenergy in Europe		Information, training, networking						X							
Belgium	Mol	Biofuel Sustainable End-Use in Belgium	BIOSSES	Policy-making, standardisation							X						



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Belgium	Mol	Effectiveness of measures to accelerate market introduction of biofuels and hydrogen	PREMIA	Policy-making, standardisation						X							
Belgium	Mol, Lommel	Monitoring service care Flemish government on ppo, biodiesel (mixture) and diesel		Public services / non-commercial					X								
Belgium	Oostende	Biodiesel production plant	PROVIRON	Commercial operation			X										
Belgium	Wanze	Bio-ethanol production plant	BIO-Wanze	Commercial operation			X										
Bulgaria	Sofia	EU bioenergy technology for Bulgaria and Romania	INFBIONEXP	Information, training, networking										X			
Denmark	Esbjerg	Demonstration of a flexible plant processing organic waste, manure and/or energy crops to bio-ethanol and biogas for transport	FLEXFUEL	R & D			X	X			X		X				
Denmark	Fredericia	Integrated Biomass Utilisation for Production of Biofuels	CO-PRODUCTION BIOFUELS	Piloting, demonstration										X			
Finland	Espoo	Co-processing of upgraded bio-liquids in standard refinery units	BIOCOUP	R & D					X		X			X			
Finland	Espoo	Technological Improvement for Ethanol Production from Lignocellulose	TIME	R & D			X										
Finland	Jyväskylä	European bioenergy network	EUBIONET II	Information, training, networking							X						
France		Partenaire Diester		Piloting, demonstration						X							
France		Site Loire		Commercial operation			X										
France		Website www.bioethanolcarburant.com		Information, training, networking						X	X						
France	Ain	Site de l'Ain		Commercial operation			X										
France	Alençon	Alençon - Partenaire Diester		Public services / non-commercial					X				X				
France	Amiens	Amiens Métropole - Partenaire Diester		Public services / non-commercial					X								
France	Angoulême	STGA - Partenaire Diester		Public services / non-commercial					X								


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France	Bourges	TEXROD - Partenaire Diester		Commercial operation					X								
France	Grenoble	Site Isère		Commercial operation			X										
France	La Rochelle Cedex 02	Smaller Urban Communities in CIVITAS for Environmentally Sustainable Solutions, La Rochelle	SUCCESS La Rochelle	Piloting, demonstration					X								
France	Le Chesnay	Shamash		R & D	X		X										
France	Lescar	J & G Daniel - Partenaire Diester		Commercial operation					X								
France	Lille	BIOGASMAX activities in Lille	BIOGASMAX - Lille	Piloting, demonstration			X	X	X								
France	Lille	Teréos - Biofuel production		Commercial operation			X										
France	Lille	Trendsetter: biogas bus fleets in Lille	CIVITAS - TRENDSETTER - Lille	Piloting, demonstration				X	X								
France	Marseille Cedex 6	Groupe des Eaux de Marseille - Partenaire Diester		Public services / non-commercial					X				X				
France	Melun	Seine-et-Marne - Partenaire Diester		Public services / non-commercial					X								X
France	Montardon	Abengoa bioenergy - Biofuel production from corn		Commercial operation			X										
France	Montpellier	Pyrolysis Oil Toxicity Assessment for Safe Handling and Transport	BIOTOX	R & D			X										
France	Nanterre Cedex	SITA France - Partenaire Diester		Commercial operation					X								
France	Noyal-sur-Vlaine	Société Triballat-Noyal - Partenaire Diester		Commercial operation					X		X						
France	Origny Sainte Benoite	Bio Ethanol Nord Picardie - Biofuel production	BENP	Commercial operation			X										
France	Orléans	Orléans Val de Loire - Partenaire Diester		Public services / non-commercial					X			X					X
France	Paris	Biomass Gasification for Synthesis and Production of Renewable Automotive Fuels	GASPAR	R & D			X				X						
France	Paris	Cristal Union - Biofuel production		Commercial operation, R & D	X		X										



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France	Paris	Derichebourg Environnement - Partenaire Diester		Commercial operation, Piloting, demonstration					X					X		
France	Paris	Saint Louis Sucre - Biofuel production		Commercial operation			X									
France	Paris Cedex 12	RATP - Partenaire Diester		Public services / non-commercial				X			X					
France	Quimper	Quimper - Partenaire Diester		Public services / non-commercial				X			X	X				
France	Reims	Champagne Céréales - Partenaire Diester		Commercial operation, R & D			X	X								
France	Rouen	Rouen - Partenaire Diester		Public services / non-commercial				X								
France	Rueil-Malmaison	Rueil-Malmaison - Partenaire Diester		Public services / non-commercial				X				X				X
France	Rueil-Malmaison Cedex	New improvements for ligno-cellulosic ethanol	NILE	R & D												
France	Surgères	Vals Aunis - Partenaire Diester		Public services / non-commercial				X								
France	Valbonne	Agriculture for chemicals and energy	AGRICE	R & D					X	X						
France	Valbonne	Promoting sustainable energetic pathways for bus fleets.	STAR BUS	Public services / non-commercial				X								
France	Valence	Site Drôme		Commercial operation			X									
France	Verdun	INEOS - biofuel production		Commercial operation			X									
France	Vitrolles	Ville de Vitrolles - Partenaire Diester		Public services / non-commercial				X								
Germany	Aachen	District Administrator Aachen	Landrat Kreis Aachen	Piloting, demonstration				X								
Germany	Darmstadt	Renewability		R & D					X			X				
Germany		CNG-Vehicles for parcel delivery used by DHL in Germany		Piloting, demonstration				X								


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Germany	Dornburg	Development and evaluation of optimised cropping systems for the agricultural production of energy crops under various conditions in Germany"	EVA	R & D							X							
Germany	Ebeleben	Biodiesel facility Ebeleben		Commercial operation			X											
Germany	Frankfurt	Lombardia & Rhein-Main towards Zero Emission.	ZERO REGIO	Piloting, demonstration			X	X	X								X	
Germany	Freiburg	Sustainability in the Public urban Transport Market	SIPTRAM	R & D						X								
Germany	Gülzow	BioLog: Vom Acker in den Tank	BioLog	R & D			X											
Germany	Hamburg	Fueling Stations Network	OIL!	Commercial operation				X										
Germany	Itzehoe	Building a grid of plant oil filling stations in Germany.	PROKON OIL	Commercial operation				X										
Germany	Kiel	Nachwachsende Rohstoffe & Landnutzung (Renewable Resources & Landuse Project)	The NaRoLa Project	R & D														
Germany	Landstuhl	Deutsches Rotes Kreuz (DRK) Landstuhl		Piloting, demonstration					X									
Germany	Leipzig	Pre-normative work for the use of solid biofuels	BIONORM	Other									X					
Germany	Leipzig	Verbio BioEnergy AG	VERBIO AG	Commercial operation			X											
Germany	Mannheim	Creative Regeneration of Power	CROP	Commercial operation			X											
Germany	München	Biofuels at Munich Airport		Piloting, demonstration					X									
Germany	München	Latin America Thematic Network on Bioenergy	LAMNET	R & D														X
Germany	München	Carbon Labelling: A European Pilot Initiative on Biodiesel and Fuel Efficiency	Carbon Labelling	Other				X										
Germany	Neubrandenburg	Biodiesel Facility Neubrandenburg		Commercial operation			X											
Germany	Neumarkt	Neumarkter Lammsbräu - vegetable oil for the company cars		Commercial operation					X									
Germany	Ottobrunn	Hydrogen for Transport in Europe	HyLights	Piloting, demonstration														
Germany	Stuttgart	Cities for Mobility	CfM	Information, training, networking						X	X	X						X
Germany	Weilheim	Mobil ohne Fossil		Information, training, networking								X						X
Germany	Werlte	Bio Fuels in Motion	BioMotion	R & D, Piloting, demonstration						X	X							
Germany	Wolfsburg	Renewable fuels for advanced powertrains	RENEW	R & D			X											



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Greece	Athens	A global strategy approach for the penetration of Biodiesel in the Greek fuel market		Policy-making, standardisation			X	X									
Greece	Athens	Bioenergy chains from perennial crops in South Europe	Bioenergy Chains	R & D	X		X										
Greece	Athens	Biomass Production Chain and Growth Simulation Model for Kenaf	BIOKENAF	R & D	X	X											
Greece	Athens	Implementation of a biodiesel production plant in northern Greece		Commercial operation				X									
Greece	Athens	Promoting favourable conditions to establish biodiesel market actions	Biodiesel Chains	Policy-making, standardisation			X	X									
Greece	Athens	Strategy for the deployment of biofuels for transport in the eastern European market	BIO-EAST	Policy-making, standardisation	X	X			X								
Greece	Athens	Support and Development of Renewable Sources of Energy in Ukraine	ESCOB	Commercial operation	X	X					X						X
Greece	Heraklion	Use of biodiesel mixtures for public buses in the island of Crete.		Piloting, demonstration					X			X					X
Greece	Ioannina	Development of a sustainable and complete system for biodiesel production from energy crops	BIOSIS	Piloting, demonstration	X		X										
Hungary	Budapest	Web-based Biofuel Marketplace for supporting the E-Commerce of biofuel products and technologies	Biofuel Marketplace	Piloting, demonstration					X	X	X						X
Hungary	Szeged	CNG buses in Szeged, Hungary		Piloting, demonstration					X								
Ireland	Cork	Biofuel use in Cork City Council	CIVITAS - MIRACLES - Cork	Piloting, demonstration					X								
Ireland	Cork	Pure Plant Oil Use in Cork City Council Municipal Fleet		Piloting, demonstration				X									
Ireland	Ringaskiddy, Cork	Biodiesel production facility at Ringaskiddy, Ireland		Commercial operation			X										
Italy	Florence	Voice		Other	X		X										
Italy	Florence	GIS-based planning tool for greenhouse gases emission reduction through biomass exploitation	BIOSIT	Commercial operation													X
Italy	Florence	Large Bio-ethanol Project from Sweet Sorghum in China and Italy	ECHI-T	R & D, Piloting, demonstration	X						X						
Italy	Gorizia	Non technical barriers to bio-ethanol development		R & D			X		X								


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Italy	La Spezia	Ethanol fleets in La Spezia	BEST - La Spezia	Piloting, demonstration				X	X								
Italy	Roma	Common procurement of collective and public service transport clean vehicles	COMPRO	R & D													
Italy	Rome	BIOGASMAX activities in Rome	BIOGASMAX - Rome	Piloting, demonstration			X	X	X								
Luxembourg	Ville de Luxembourg	Biodiesel buses in Luxembourg	ZEUS - biodiesel Luxembourg	Piloting, demonstration					X								
Malta	Floriana	Government of Malta - biodiesel from waste oil		Piloting, demonstration					X	X					X		
Malta	Marsa	Carbon Labelling Project		Information, training, networking						X							
Netherlands	Amsterdam	TPG Post Pakketservice running 56 vehicles in Amsterdam on B100	Biodiesel - TPG	Piloting, demonstration					X								
Netherlands	Bergschenhoek	Jatropha plantation		Commercial operation	X	X				X							
Netherlands	Boijl	Solaroilsystems	SOS	Piloting, demonstration				X			X		X				X
Netherlands	Delft	Elaboration and adoption of standards concerning quality specifications and test methods for bio-ethanol to be used as automotive fuel in concentrations between 0 and 100%.	BIET	Policy-making, standardisation					X		X						
Netherlands	Dordrecht	Biofuel Terminals		Commercial operation		X		X									
Netherlands	Ede	Waste processing company ACV driving on PPO and biodiesel in Ede and Wageningen	PPO - ACV	Piloting, demonstration					X								
Netherlands	Eemshaven	Biovalue Eemshaven		Commercial operation			X										
Netherlands	Eindhoven	Public transport buses on PPO in the region of Eindhoven	PPO - Eindhoven	Piloting, demonstration				X	X								
Netherlands	Europoort Rotterdam	Abengoa Rotterdam		Commercial operation			X										
Netherlands	Groningen	Bioliquid, conversion systems for driving on pure plant oil and biodiesel		Commercial operation													
Netherlands	Hoofddorp	Driving Clean Programme		Commercial operation					X								
Netherlands	Huizen	E-energymarket		Commercial operation						X							
Netherlands	Leeuwarden	Delta-oil Biofuel filling		Commercial operation				X									



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Netherlands	Leeuwarden	Use sustainable fuels in vulnerable areas		Public services / non-commercial					X								X
Netherlands	Lelystad	Production of rape seed and use of biodiesel in the Application Centre for Renewable RESources	ACRRES	Piloting, demonstration	X				X								
Netherlands	Pesse	Green Planet - Fuel for the Future	Green Planet	Commercial operation				X				X	X				
Netherlands	Petten	Effective and Low-disturbing Biofuels	Elobio	Policy-making, standardisation													
Netherlands	Petten	Refuel project	REFUEL	R & D					X								
Netherlands	Rijswijk	Athlon Car Lease filling station		Commercial operation, Piloting, demonstration				X									
Netherlands	Rotterdam	Argos Biofuel filling station		Commercial operation, Piloting, demonstration				X									
Netherlands	Rotterdam	Bioethanol for Sustainable Transport, Rotterdam	BEST Rotterdam	Public services / non-commercial, Piloting, demonstration				X	X			X	X				
Netherlands	Rotterdam-Botlek	Bioethanol Rotterdam	BER	Commercial operation			X										
Netherlands	Rotterdam-Botlek	Biopetrol Rotterdam		Commercial operation			X										
Netherlands	Son	Ecoson B.V. in Son		Other			X										
Netherlands	Terneuzen	Rosendaal Energy Sluiskil		Commercial operation			X				X						
Netherlands	The Hague	Worldbioplants.com		Public services / non-commercial, Information, training, networking			X				X	X	X				
Netherlands	Utrecht	Gota Verde		Piloting, demonstration, Information, training, networking			X										
Netherlands	Utrecht	Procura -Supporting the switch to alternative fuel vehicles		Piloting, demonstration						X							
Netherlands	Wageningen	Jatropha curcas evaluation, breeding and propagation programme	JEP	R & D													
Netherlands	Wageningen	Non-thermal production of pure hydrogen from biomass	HYVOLUTION	R & D,			X										


Projects sorted per country and city

Country	City	Title of project / activity	Acronym	Type of project	Project purpose													
					Feedstock production	Feedstock transport, storage, distribution, dispensing	Biofuel production	Biofuel transport, storage, distribution, dispensing	End use	Support procurement, purchasing policies	Support economic development	Improve air quality	Protect climate	Advance energy efficiency	Vehicle production	Improve environment		
				Piloting, demonstration														
Netherlands	Wijster	Bio-ethanol production plant Wijster		Commercial operation			X											
Netherlands	Zwolle	driving on compostable waste		R & D, Piloting, demonstration			X		X									
Norway	Trondheim	Wood based Biofuel		R & D			X											
Poland	Borek Wielkopolski	Biopal Sp. Z.o.o		Commercial operation			X											
Poland	Chorzów	BIO-EKO Sp. z.o.o		Commercial operation	X													
Poland	Chudopczyce	System for biodiesel production		Commercial operation			X											
Poland	Gdynia	The city of Gdynia, Poland uses CNG buses meeting the EEV standard		Piloting, demonstration				X										
Poland	Glebinów	ZPE Goswinowice		Commercial operation			X											
Poland	Starogard Gdanski	Pomeranian Bioethanol project	BIOETOH STGD	Commercial operation	X		X		X									
Portugal	Oeiras	Energy Study on Oeiras Municipal Fleet		Public services / non-commercial					X									
Portugal	Oeiras	Oilprodiesel		Piloting, demonstration	X	X	X		X									
Portugal	Ramalhal	Development of a Biotechnological High Yield Process for Ethanol Production Based on a Continuous Fermentation Reactor	FERMATEC	R & D			X											
Romania	Suceava	CIVITAS-SMILE	SMILE: Suceava	Piloting, demonstration					X									
Slovenia	Ljubljana	Implementation and large-scale deployment of biodiesel and CNG fleets in Ljubljana	CIVITAS - MOBILIS - Ljubljana	Piloting, demonstration					X									
Spain	Alcobendas	Impact and New Markets for the components industry due to the new powertrains and biofuels		R & D														
Spain	Avilés	Retrofit Diesel Engine to Burn Multifuels Optimizing CO2 Balance, Emissions, Power Output and Mileage	Multifuel Engine Retrofit	R & D					X					X	X	X		
Spain	Babilafuente	Biocarburantes Castilla y León		Commercial operation			X											
Spain	Bilbao	Ethanol fleets in Basque Country	BEST - Basque	Piloting, demonstration				X	X									


Projects sorted per country and city

Country	City	Title of project / activity	Acronym	Type of project	Project purpose												
					Feedstock production	Feedstock transport, storage, distribution, dispensing	Biofuel production	Biofuel transport, storage, distribution, dispensing	End use	Support procurement, purchasing policies	Support economic development	Improve air quality	Protect climate	Advance energy efficiency	Vehicle production	Improve environment	
Spain	Burgos	Integrated promotion of the biodiesel chain	PROBIO	Information, training, networking	X		X		X		X						
Spain	Burgos	Support for clean fuels and introduction of clean public and private fleets in Burgos	CIVITAS - CARAVEL - Burgos	Piloting, demonstration					X								
Spain	Cartagena	Ecocarburantes Espanoles		Commercial operation			X										
Spain	Huelva	Huelva Project		Commercial operation			X										
Spain	Leon	Local and Innovative Biodiesel	LIB	R & D			X										
Spain	Madrid	Alternative Crops Integration in a Spacial Analysis	ACISA	R & D, Piloting, demonstration	X						X						
Spain	Madrid	Ethanol fleets in Madrid	BEST - Madrid	Piloting, demonstration					X								
Spain	Navarra	Overcoming non-technological barriers for full scale use of biodiesel in Europe	PRO-BIODIESEL	Policy-making, standardisation													
Spain	Navarra	Techno-economical assessment of the production and use of biofuels for heating and cooling applications in South Europe.	BIO-SOUTH	R & D									X				
Spain	Pamplona	Sustainable Community through the Production of 30.000 Tm/year of Bio-Diesel Starting from Sunflower, Rapeseed and Palm Biomass	BIODINA	Commercial operation, Piloting, demonstration, Information, training, networking	X		X				X						
Spain	Reus	Bionet Europa - biofuel production plant		Commercial operation			X										
Spain	San Martin del Rey Aurelio	Bionorte		Commercial operation, R & D			X										
Spain	San Sebastian de los Reyes	Global Process To Improve Cynara cardunculus Exploitation for Energy Applications.	BIOCARD	R & D, Piloting, demonstration	X												
Spain	Teixeiro-Curtis	Bioethanol Galicia		Commercial operation			X										
Spain	Valencia	Collecting used cooking oils to be recycled as bio-fuel	Ecobús	Piloting, demonstration					X								
Spain	València	La Ribera in biodiesel		Commercial operation			X										
Sweden	County of Blekinge	Joint tender requirements for the purchase of vehicles and transportations in the County of Blekinge, Sweden.		Other					X								


Projects sorted per country and city

Country	City	Title of project / activity	Acronym	Type of project	Project purpose												
					Feedstock production	Feedstock transport, storage, distribution, dispensing	Biofuel production	Biofuel transport, storage, distribution, dispensing	End use	Support procurement, purchasing policies	Support economic development	Improve air quality	Protect climate	Advance energy efficiency	Vehicle production	Improve environment	
Sweden	Göteborg	BIOGASMAX activities in Göteborg	BIOGASMAX - Göteborg	Piloting, demonstration			X	X	X								
Sweden	Göteborg	Introduction of clean waste collection vehicles in Göteborg	CIVITAS - TELLUS - Göteborg	Piloting, demonstration					X								
Sweden	Göteborg	Scandinavian Hydrogen Highway Partnership		Public services / non-commercial				X									
Sweden	Kristianstad	Biogas production and use of biogas in Kristianstad	Biogas Kristianstad	Piloting, demonstration					X	X							
Sweden	Kristianstad	Fossil Fuel Free Kristianstad		Piloting, demonstration					X			X	X				X
Sweden	Linköping	Svensk Biogas Linköping		Piloting, demonstration				X	X								
Sweden	Malmö	CIVITAS - SMILE- Malmö	SMILE - Malmö	Piloting, demonstration					X	X							
Sweden	Malmö	Towards Sustainable Mobility for people in urban areas: VISIT 2008.	SMILE - VISIT 2008	Public services / non-commercial								X					
Sweden	Norrköping	Lantmännen - bioethanol production		Commercial operation, Piloting, demonstration			X										
Sweden	Örnsköldsvik	SEKAB E-diesel	BEST - SEKAB	Piloting, demonstration			X	X	X								
Sweden	Ronneby	Ethanol buses		Public services / non-commercial					X								
Sweden	Stockholm	Bioethanol for Sustainable Transport	BEST	Commercial operation					X								
Sweden	Stockholm	Biogas in Stockholm in CIVITAS - Trendsetter	TRENDSETTER - Stockholm, biogas	Piloting, demonstration				X	X								
Sweden	Stockholm	BIOGASMAX activities in Stockholm	BIOGASMAX - Stockholm	Piloting, demonstration				X	X								
Sweden	Stockholm	Environmentally Adapted Mixed Diesel Fuel Systems Containing Diesel, Ethanol and RME	DEAR	R & D								X	X				X
Sweden	Stockholm	Ford Focus FFV procurement	FFV procurement Sweden	Piloting, demonstration					X	X							
Sweden	Stockholm	Stockholm E95 buses	BEST - Stockholm buses	Piloting, demonstration				X	X								



Projects sorted per country and city

Country	City	Title of project / activity	Acronym	Type of project	Project purpose												
					Feedstock production	Feedstock transport, storage, distribution, dispensing	Biofuel production	Biofuel transport, storage, distribution, dispensing	End use	Support procurement, purchasing policies	Support economic development	Improve air quality	Protect climate	Advance energy efficiency	Vehicle production	Improve environment	
Sweden	Stockholm	Stockholm FFVs	BEST - Stockholm	Piloting, demonstration, Information, training,					X								
Sweden	Umeå	Biofuel Region ethanol vehicles	BEST - Biofuel Region	Piloting, demonstration				X	X								
Sweden	Växjö	Clean and Hydrogen Rich Synthesis GAS	CHRISGAS	Piloting, demonstration			X				X	X					X
Switzerland	Bern	Ökobilanz von Energieprodukten		Policy-making, standardisation													X
Switzerland	Uster	Life cycle assessment of BTL-fuel production	RENEW	R & D			X										X
Switzerland	Villingen	Bio-SNG - biogas production plant		R & D			X										
United Kingdom	Liverpool	Sustainable Biofuels in the Community	BIONIC	Piloting, demonstration					X								
United Kingdom	Liverpool	Measures to Influence transport Demand to Achieve Sustainability	MIDAS	R & D					X								
United Kingdom	London	Developing a network of actors to stimulate demand for locally produced biodiesel from used cooking oils.	BioDieNet	Information, training, networking			X										
United Kingdom	London	Developing local supply networks, linking biofuel producers with public sector users	Bio-Nett	R & D													
United Kingdom	Norwich	Alternative fuel vehicle fleets in Norwich	CIVITAS- SMILE - Norwich	Piloting, demonstration					X								
United Kingdom	Preston	Small Urban Communities in CIVITAS for Environmentally Sustainable Solutions, Preston	SUCCESS Preston	Piloting, demonstration					X								
United Kingdom	Taunton, Somerset	E85 bioethanol cluster in Somerset County	BEST - Somerset	Piloting, demonstration				X	X								
United Kingdom	West Mains, Ingliston, Newbridge, Midlothian	Demonstration of the Production of Biodiesel from Tallow and Recovered Vegetable Oil	BIODIEPRO	Piloting, demonstration	X	X	X	X									
United Kingdom	West Sussex	Blooming Futures		Other			X		X		X	X					



6. Projects and activities listed alphabetically, including abstract

This chapter gives an alphabetical list of all projects and activities, and gives an abstract per project and a website address (if available). More detailed information, such as contact details and information on project duration, project size, funding/investment etc. can be found on the website www.biofuel-cities.eu, under "projects & activities directory". Using the search function on this web page, projects can be very easily found by typing, for instance, the acronym or title.

Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
100% biodiesel bus fleet in Graz	CIVITAS - TRENDSETTER - Graz, buses	Austria	Graz	In operation, ongoing	The Graz public transport company operates all of its ca 120 buses on 100% biodiesel. A large part of this fuel is provided by processed used cooking oil.	www.trendsetter-europe.org
878 Taxi fleet using biodiesel from used cooking oil in Graz	CIVITAS - TRENDSETTER - Graz, taxis	Austria	Graz	In operation, ongoing	The taxi fleet from 878-Cityfunk Graz tested and implemented the use of FAME for their fleet. They installed a tanking facility at the yard and procured vehicles capable of running with 100% FAME	www.trendsetter-europe.org
A global strategy approach for the penetration of Biodiesel in the Greek fuel market		Greece	Athens	Completed, stopped, closed-down	ELINOIL S.A. imported a biodiesel quantity from Austria and has distributed in the local market in Northern Greece through its petrol stations retail network. The program continued for 1999 and 2000 involving over 30 petrol stations with significant marketing success. The action was disseminated in various ways (workshops, press conferences, publications, leaflets etc). Biodiesel was sold in mixture (5-7%) with fossil diesel and was strongly competitive to neat fossil diesel (it took a market share of over 40%).	
Abengoa bioenergy - Biofuel production from corn		France	Montardon	In operation, ongoing	Abengoa bioenergy is the first European manufacturer of bioethanol made from corn. Abengoa is located in France.	www.abengoaenergy.com / www.agpm.com
Abengoa Rotterdam		Netherlands	Europoort Rotterdam	Under development	Abengoa Bioenergia is dedicated to the production and development of biofuels for transport (bioethanol and biodiesel), that utilize biomass. Abengoa Bioenergia is planning to build a bioethanol plant in Rotterdam. Abener Energia is responsible for the engineering, construction and start-up of the bioethanol plant in Rotterdam. The project will take approximately 24-30 months and will cost 250 million euro.	www.abengoa-bioenergy.com
Agriculture for chemicals and energy	AGRICE	France	Valbonne	In operation, ongoing	Project goal: creating new markets for agricultural products in the context of sustainable development. To achieve these ends significant and stable research funding is required for the field of liquid biofuels.	www.ademe.fr/partenaires/agric/
Alençon - Partenaire Diester		France	Alençon	In operation, ongoing	The whole city bus fleet works with biodiesel diester (30%).	www.altobus.co / www.ville-alencon.fr



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
Alternative Crops Integration in a Spatial Analysis	ACISA	Spain	Madrid	Completed, stopped, closed-down	The objectives pursued by the ACISA project can be summarised as follows: finalize the development of an analytic tool that covers all the biomass chain to integrate new energy crops into an existing regional energy system; include electricity and heat production as well as the generation of liquid biofuels in the analyses; aid the decision-making procedure presenting the best solution of integration from a micro and macro-economic, environmental and energetic perspective; develop real case studies in Italy and Greece; disseminate the tool potential in a dedicated Web server; enhance the potentials of a Geographical Information System to carry out integration studies of biomass energy considering its spatial dimension; improve the knowledge about multidisciplinary approaches to integrate biomass energy; help the development of biomass energy (solid/liquid) in order to achieve the targets of the EU White Paper on Renewables.	
Alternative fuel vehicle fleets in Norwich	CIVITAS - SMILE - Norwich	United Kingdom	Norwich	In operation, ongoing	The demonstration will expose the practicalities of using biodiesel, and how it can be introduced into UK fleets, whilst evaluating the impact on greenhouse gas emissions.	www.civitas-initiative.org
Amiens Métropole - Partenaire Diester		France	Amiens	In operation, ongoing	Since September 2006 the public busses are run by biodiesel diester 30%.	www.amiens.com
An integrated approach for biogas production with agricultural waste	AGROBIOGAS	Belgium	Brussels	In operation, ongoing	Annually ~700 million tons of agricultural wastes are produced within the EU presenting a high load for farmers that are obligated to get rid of. So far, most manure and crop residues have been dealt with using the cheapest treatments although these are not the most adequate ones. Upgrading to biogas (AD) by means of anaerobic digestion (AD) represents an alternative treatment with a high potential as it not only prevents pollution, but also allows for energy and nutrient recovery. There are still many challenges to be solved in order to make this technology effective as a treatment for agricultural waste and become widely accessible to European farmers.	www.dgs.de/agrobiogas.0.html
Argos Biofuel filling station		Netherlands	Rotterdam	In operation, ongoing	Argos Oil offers E85 in the Netherlands	www.argos.nl
Athlon Car Lease filling station		Netherlands	Rijswijk	In operation, ongoing	Athlon Car Lease offer their clients leasing Saab flexifuel cars to fill up with E85 in Rijswijk.	www.athloncarlease.com/athlon-nl/index.php
Bio Ethanol Nord Picardie - Biofuel production	BENP	France	Origny Sainte Benoite	In operation, ongoing	BENP belongs to the Tereos company and produces biodiesel.	www.tereos.com
Bio Fuels in Motion	BioMotion	Germany	Werlte	In operation, ongoing	The central objectives of the project are to increase use, knowledge and acceptance of bio fuels by information, motivation, cluster building and supporting regional implementation strategies for bio fuels.	www.biomotion-project.eu



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
Biocarburantes Castilla y León		Spain	Babilafuente	In operation, ongoing	Abengoa is a European biofuel producer with three bioethanol production plants in Spain. One of them is Biocarburantes Castilla y León.	www.abengoabioenergy.com
Biodiesel buses in Luxembourg	ZEUS - biodiesel Luxembourg	Luxembourg	Ville de Luxembourg	In operation, ongoing	Use of 45 buses in the city of Luxembourg - started in the frame of the European ZEUS programme	
Biodiesel facility Ebeleben		Germany	Ebeleben	In operation, ongoing	Bioverda, partnership with Emerald Biodiesel also operates a biodiesel facility located in Ebeleben in the state of Thüringen. The integrated facility produces 95,000 tonnes of rapeseed methyl ester, 95,000 tonnes of rape cake and 9,500 tonnes of industrial grade glycerine. Lurgi esterification technology was used and the entire project was designed and developed under an EPC contract with the local engineering firm EPC Engineering Consulting. The facility was commissioned in March 2007 and took only 11 months to construct. Locally-grown rapeseed is supplied to the facility and the biodiesel produced is sold to local transport companies.	www.bioverda.com/location_map/projects/project03.asp
Biodiesel Facility Neubrandenburg		Germany	Neubrandenburg	In operation, ongoing	Bioverda, in partnership with its sister company Emerald Biodiesel operates a biodiesel facility located in Neubrandenburg in the state of Mecklenburg-Vorpommern, approximately 150 kilometres north of Berlin. The biodiesel facility has the following capacity: 120,000 tonnes seed crush; 45,000 tonnes biodiesel production; Lurgi CTT technology; 72,000 tonnes rapeseed cake; 4,000 tonnes pharmaceutical grade glycerine.	www.bioverda.com/location_map/projects/project02.asp
Biodiesel International	BDI	Austria	Grambach	In operation, ongoing	BDI - BioDiesel International provides solutions for the industrial utilisation of renewable resource. The core-competences are technologies for the production of high-quality BioDiesel: from different types of feedstock; surpassing the strictest product standards; environmental friendly; with the best cost-value ratio. As the market- and technology leader for building tailor-made and turn-key Multi-Feedstock BioDiesel plants we offer single source: Research, Development, Consulting; Project development, Management of Financing and Funding; Authority-, Basic and Detail-Engineering; Erection and Start-up; After-Sales Services.	www.bdi-biodiesel.com
Biodiesel Kärnten - biofuel production		Austria	Arnoldstein	In operation, ongoing	The Biodiesel Kärnten Ltd. has been founded in 2001. The main product of the Biodiesel Kärnten Ltd. is high quality biodiesel. The biodiesel is produced from used frying oils, animal fats and fresh plant oils. In addition to the biodiesel glycerine, potash fertiliser, bio-heating oil is produced.	www.biodiesel-kaernten.com
Biodiesel production facility at Ringaskiddy, Ireland		Ireland	Ringaskiddy, Cork	In operation, ongoing	In October 2006, Bioverda announced its plan to build a biodiesel production facility at Ringaskiddy, in the Port of Cork in partnership with the Cork Company, South Coast Transport. The development comprises: 200,000 tonnes biodiesel plant (vegetable oil feedstock only); Deep water port with 50,000 tonnes oil storage. The plant will use state-of-the-art technology to convert sustainably produced vegetable oil, sourced both internationally and locally, into high quality biodiesel conforming to existing	www.bioverda.com/location_map/projects/project01.asp



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
					quality standards. Part of the feedstock oils for the plant may be locally-sourced rapeseed oil, providing a new market opportunity for Irish farmers.	
Biodiesel production plant	OLEON	Belgium	Ertvelde	In operation, ongoing	Production unit with capacity of 100000 tonnes biodiesel /year	www.oleon.com
Biodiesel production plant	NEOCHIM	Belgium	Feluy	In operation, ongoing	Production unit with capacity of 200000 tonnes biodiesel /year	
Biodiesel production plant	BIORO	Belgium	Gent	Under development	Production unit with capacity of 200000 tonnes biodiesel /year	www.bioro.be
Biodiesel production plant	PROVIRON	Belgium	Oostende	Under development	Production unit with capacity of 100000 tonnes biodiesel /year	www.proviron.com
Biodiesel Vienna - biofuel production		Austria	Wien	In operation, ongoing	Since summer 2006, based on the know-how of the company group Münzer and the technology of Austrian BDI-Biodiesel, the BDV produces 95.000 tons biodiesel per year. The feedstocks for the BioDiesel production in Lobau are vegetable fresh oils like rape seed oil and flower oil. These natural products are processed by the transesterification method into high-quality BioDiesel. The vegetable fresh oils are changed chemically under addition of methanol that the won BioDiesel show ideal qualities like a fuel for diesel engines.	www.biodiesel-vienna.com
BIO-EAST: Strategy for the deployment of biofuels for transport in the eastern European market	BIO-EAST	Greece	Athens	Completed, stopped, closed-down	This project aims to examine, develop, and propose strategies for the implementation of biofuels in Greece, Bulgaria and Romania and to examine the potential of biofuels production in these countries, Ukraine, and the rest of the Balkan countries in view of trading with the EU. The south-East part of the EU and the Balkan region has a very high potential for biofuel production, and, coupled with the biofuel potential of Ukraine the region could satisfy about 25% of the EU needs on the basis of the draft directives for biofuels for transport. Trade strategies and routes have to be developed and due to the geographical proximity and the shipping routes via the Black Sea the region has a realistic potential. The project, which is strongly supported by National organizations, assists all participating countries of the region not only to develop their national policies for biofuels but also to establish regional collaboration and trade to a significant extend.	
BIO-EKO Sp. z.o.o		Poland	Chorzów	Under development	Complete line for esthers production from rapeseed oil	www.bio-eko.com.pl
Bioenergy chains from perennial crops in South Europe	Bioenergy Chains	Greece	Athens	Completed, stopped, closed-down	The overall objective of this project is to define and evaluate complete bioenergy chains from biomass production to thermochemical conversion for the production of valuable energy products. A number of perennial energy crops were grown in southern Europe (Greece, Italy, France and Spain), which have been carefully selected to provide a year-round availability of raw material. These were processed thermally by combustion, gasification and fast pyrolysis. The complete chains were evaluated in	www.cres.gr/bioenergy_chains /



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
					technical, financial/economic and environmental terms in order to identify the most promising combinations of biomass resources and technologies	
Bioethanol for Sustainable Transport	BEST	Sweden	Stockholm	In operation, ongoing	The project Bioethanol for Sustainable Transport deals with the introduction and market penetration of bioethanol as a vehicle fuel, and the introduction and wider use of flexible fuel vehicles and ethanol cars on the market.	www.best-europe.org
Bioethanol for Sustainable Transport, Rotterdam	BEST Rotterdam	Netherlands	Rotterdam	In operation, ongoing	The local air quality in the region of Rotterdam is worse than in other regions in the Netherlands and Europe. Road transport in the region is a major contributor to this. The Rotterdam region takes several measures to improve the air quality. With the BEST-project, Rotterdam contributes to the market introduction of bio-ethanol in the Netherlands. Bio-ethanol causes less emission of NO _x , fine particles and CO ₂ than petrol. Rotterdam is one of the 7 urban regions in Europe that participates in the BEST-project. A key element of the BEST-project is the cooperation of local governments, car manufacturers, fuel suppliers and fleet owners. The main aims of the Rotterdam BEST-project are: to demonstrate the environmental benefits of blending bio-ethanol in gasoline; the market introduction of 950 flexifuel vehicles in the period 2006-2009; an increase public interest in bio-ethanol as an alternative fuel; the realisation of 12 E85 filling stations in the region.	www.best-europe.org
Bioethanol Galicia		Spain	Teixeiro-Curtis	In operation, ongoing	Abengoa is a European biofuel producer with three bioethanol production plants in Spain. One of them is Bioethanol Galicia.	www.abengoabioenergy.com
Bio-ethanol production plant	Tate & Lyle	Belgium	Aalst	Under development	Production unit with capacity of 40000 m ³ bio-ethanol/year	
Bio-ethanol production plant	Alco Bio Fuel	Belgium	Gent	Under development	Production unit with capacity of 300000 m ³ bio-ethanol/year (1st phase 150000 m ³ /yr)	
Bio-ethanol production plant	BIO-Wanze	Belgium	Wanze	Under development	Production unit with capacity of 300000 m ³ bio-ethanol/year. Production to start in fall 2008.	
Bio-ethanol production plant Wijster		Netherlands	Wijster	In operation, ongoing	Nivoba B.V. and Oosterhof Milieutechniek B.V., together with a number of local farmers, are building a bioethanol plant in Wijster (province of Drenthe, The Netherlands), alongside Essent Millieu. The farmers participate (50%) in the plant as suppliers of raw materials. Initially the main ingredient for the production process will be wheat, but rye, corn and sorghum are also suitable. Part of Essent's (as yet) unused residual heat is used for the production process. The new plant will begin in 2008 with an annual production of 100 million litres of bioethanol. Before the wheat can be used to produce bioethanol, several valuable components, protein and bran are separated from the wheat and used in the food industry. The residue that remains after bioethanol production is used as animal fodder. From 2008 onwards the bioethanol plant in Wijster will produce 100 million litres of bioethanol per year, plus 25,000 tons of protein and 40,000 tons of bran.	



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location Country	City	Status	Abstract	Website
Bioethanol Rotterdam	BER	Netherlands	Rotterdam-Botlek	Under development	The first goal of BER BV using approx. 350.000 tons wheat is optimising sustainable production of 2 different biofuels: Bioethanol and SuBERgas (biogas), without the use of fossil energy and also capturing the CO2 produced in all steps of the production process. By producing bio-ethanol, SuBERgas, aqua-ammonia and CO2, BER will realise almost 100% conversion of wheat for several valuable products.	www.ber-rotterdam.com
Biofuel Cities	CABCEP	Belgium	Brussels	In operation, ongoing	Biofuel Cities is a European project - supported by the European Commission - that provides a platform for biofuel stakeholders for biofuel innovation at the local level. Biofuel Cities aims to: In the short term, assist in the acceleration of the market introduction of biofuels and energy-efficient vehicles in accordance with local sustainable mobility policies; In the longer term, stimulate continued and sustainable market penetration of biofuels by facilitating biofuel developments through identification of strategic Research and Development (R&D) needs, as well as the joint development of sustainable mobility and environmental policies.	www.biofuelcities.eu
Biofuel Region ethanol vehicles	BEST - Biofuel Region	Sweden	Umeå	In operation, ongoing	Within BEST, BFR will introduce 1.700 new FlexiFuel vehicles in the public sector and 1.000 to private companies. Increase the percentage of new cars sold to 25%. Introduces 30 new bioethanol busses. Increase the percentage of FlexiFuel taxis to 10%. Increase the amount of service stations that offer ethanol from 22 to 70. Increase the amount of ethanol sold by 75%. Increase the use of E85 in FlexiFuel vehicles to 80%. This will be achieved by precisely targeted information campaigns, study trips, road shows, training activities, coaching programs, seminars and conferences.	www.best-europe.org
Biofuel Sustainable End-Use in Belgium	BIOSES	Belgium	Mol	In operation, ongoing	Research project for the Belgian administration. BIOSES has three main goals: Analyse impact of different market introduction scenarios of biofuels in the Belgian transport system (2010-2020-2030); Define practical feasibility and ecological, socio-economic and macro-economic impact, based on up-to-date data (incl. new measurements); Create a roadmap for the introduction of biofuels in Belgium, identifying technical and policy needs on short, medium and long term.	www.vito.be/BIOSES
Biofuel Terminals		Netherlands	Dordrecht	In operation, ongoing	Royal Vopak (Vopak) is the world's largest independent tank terminal operator specialised in the storage and handling of liquid and gaseous chemical and oil products. On request, Vopak can provide complementary logistics services to customers of its terminals. Vopak operates 73 terminals with a storage capacity of more than 20,4 million cbm in 29 countries. The terminals are strategically located for users and the major shipping routes. The majority of its customers are companies operating in the chemical and oil industries, for which Vopak stores a large variety of products destined for a wide range of industries.	www.vopak.com



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
Biofuel use in Cork City Council	CIVITAS - MIRACLES - Cork	Ireland	Cork	In operation, ongoing	After a preliminary study, it was decided to use Cold-pressed Rape-Seed Oil as the clean-fuel and in May 2003 Elsbett trained council employees to convert 16 vehicles of the City Council fleet. After some adjustments the trial was successful, and a full excise duty exemption for Biofuels was eventually introduced in Spring 2005.	www.civitas-initiative.org
Biofuels at Munich Airport		Germany	München	In operation, ongoing	Since 2007, the Airport has its own filling station for rape seed oil and a filling station for E85 bioethanol. Until now, 19 vehicles are among those being tested with rapeseed oil. 64 vehicles operate an R20 mix method, the fuel of the vehicles consist of 20% rapeseed oil. In 2008, a filling station which is accessible by the public. The airport will be linked to the biogas supply from the surrounding region. Later in the year, initiatives to encourage the bioethanol production in the surrounding areas will start. The retrofitting of the airport vehicle fleet for rapeseed oil, bioethanol and biogas will continue until the end of 2009. In the medium-term, 400 out of 1400 vehicles, will be converted from diesel to plant oil vehicles. In the long-term, the aim is to substitute one third of the diesel used by the airport with rapeseed oil.	www.munich-airport.de
Biogas in Stockholm in CIVITAS Trendsetter	TRENDSETTER - Stockholm, biogas	Sweden	Stockholm	In operation, ongoing	Waste collection with biogas-vehicles ; clean and efficient biogas heavy vehicles ; improved biogas refuelling infrastructure	
Biogas production and use of biogas in Kristianstad	Biogas Kristianstad	Sweden	Kristianstad	In operation, ongoing	The aim of the project was to increase the knowledge and awareness of biogas as a fuel, to increase the demand of biogas as well as developing a model for biogas implementation usefull for other municipalities.	
BIOGASMAX activities in Göteborg	BIOGASMAX - Göteborg	Sweden	Göteborg	Start-up (operation in test phase)	Göteborg activities in BIOGASMAX: Biogas upgrading of 6500000 Nm ³ /yr; Building of 9 filling stations with a total supply of 1.5 million Nm ³ biogas; Local incentives to promote 100 LD biogas service vehicles (company-owned cars used by employees).	www.biogasmax.eu
BIOGASMAX activities in Lille	BIOGASMAX - Lille	France	Lille	Start-up (operation in test phase)	Lille activities in BIOGASMAX: Organics recovery centre: raw biogas production of 7.3 million Nm ³ /year; Refurbish a pilot plant to produce 3.6-4.0 million Nm ³ of raw biogas annually, of which at least 0.28 million Nm ³ will be upgraded to biogas fuel (for 10 buses); Gas upgrading of 4380000 Nm ³ /year; Storage unit with 2 horizontal tanks for the optimized refuelling of 100 buses; Demonstration and use of 30 LD biogas vehicles in the service fleet and of 10 heavy duty waste collecting biogas vehicles.	www.biogasmax.eu
BIOGASMAX activities in Rome	BIOGASMAX - Rome	Italy	Rome	Under development	Rome activities in BIOGASMAX: A new anaerobic unit will be added to the existing composting plant in Maccarese to produce 10000000 Nm ³ of raw biogas; Upgrading in feasibility study; estimation: 1800000 Nm ³ /yr; 1 filling station/storage tank will be built; Demonstration and use of 55 HD biogas vehicles.	www.biogasmax.eu
BIOGASMAX activities in Stockholm	BIOGASMAX - Stockholm	Sweden	Stockholm	Start-up (operation in test phase)	Stockholm activities in BIOGASMAX: Build 3 filling stations with a total supply of at least 0.5 million Nm ³ of biogas; Building 1 filling station at Rinkeby; Demonstration and use of 25 HD biogas vehicles and 80 LD biogas vehicles.	www.biogasmax.eu



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Title of project / activity	Acronym	Location Country	City	Status	Abstract	Website
Bioliqum, pure plant oil and biodiesel		Netherlands	Groningen	In operation, ongoing	In addition to advising on the use of PPO, Bioliqum also supplies oil filters, filter systems and conversion systems for diesel engines. Bioliqum has joined forces with Cosmo Trucks, an official DAF dealer with 16 branches in northern and central Netherlands. Cosmo Trucks uses the Bioliqum conversion kits to modify lorries and buses so that they run on PPO. Bioliqum works together with biodiesel and PPO suppliers in the Netherlands and Germany. These companies have already opened the first refuelling stations along the German border. A conversion station has now been realised in the southern part of the Netherlands, and a conversion station for tractors has been set up in Overijssel. The first oil press has been delivered in Overijssel, with production of around 50,000 litres. Expansion is currently under consideration. Bioliqum advises clients on how to set up oil presses, e.g. in Bulgaria and Romania. The company also supplies cogeneration plants running on PPO.	www.bioliqum.nl
BioLog: Vom Acker in den Tank	BioLog	Germany	Gülzow	In operation, ongoing	Energy plants for commercial use with a focus on the use of synthetic biofuels	www.energiepflanzen.info/cms/35/BIOLOG.1595.0.html
Biomass Gasification for Synthesis and Production of Renewable Automotive Fuels	GASPAR	France	Paris	In operation, ongoing	This project is part of a broader R&D programme aiming to develop an industrial process capable of transforming any type of biomass into biofuel that can be used in today's automotive engines at a competitive cost in the medium term. The technical pathway selected is thermochemical conversion by steam. This project, complementing THERMOBIO, is designed to acquire all technical data that is still lacking for the construction and successful operation of a development platform, prior to launching major investments. The platform should make it possible to build the first series of factories.	www.cirad.fr/ur/index.php/bio_masse_energie/projets/projets/gaspar
Biomass Production Chain and Growth Simulation Model for Kenaf	BIOKENAF	Greece	Athens	Completed, stopped, closed-down	The overall objective of this project is to introduce and evaluate kenaf as a non-food crop through an integrated approach for alternative land use in South EU that will provide diversified opportunities for farmers and biological materials for the "bio-based industries" of the future.	
Bionet Europa - biofuel production plant		Spain	Reus	In operation, ongoing	Bionet Europa is a Spanish biofuel producer. The production plant for biodiesel is located in the Spanish province Tarragona.	www.bioneteuropa.com/
BIONIC - Sustainable Biofuels in the Community	BIONIC	United Kingdom	Liverpool	In operation, ongoing	BIONIC is a major new project that will address the issues of biofuel supply and use in transport specifically from the perspective of Local Authorities and will promote developments in the regional production and use of transport biofuels. The project is part funded under the European Commissions' Intelligent Energy Europe programme and will run for three years. BIONIC aims to provide an overview of biofuels opportunities and user needs in partner communities and will establish regional biofuels networks to run during and after the end of the project.	www.bionic-project.eu



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Bionorte		Spain	San Martin del Rey Aurelio	In operation, ongoing	Bionorte is a private company which main activity is biofuel production from used cooking oils. The plant was founded in 2001 with a production capacity is about 4.000 tonnes/year using different kind of vegetable oils, and two main objectives: Recycling and transformation of used and raw vegetable oils from different origins into biodiesel for transport; Carrying out R&D and demonstration activities. Recent R&D and demonstration projects: 2003 "Biodiesel demonstration in Asturias"; 2006 "Biodiesel from used cooking oils: new production and purification processes."; 2006 "Development of reactor and continuous process technologies for biodiesel production from used cooking oils"; 2005 "Optimal operation conditions for biodiesel production at an industrial scale".	www.bionorte.com
Biopal Sp. Z.o.o		Poland	Borek Wielkopolski	Under development	Production of methyl ester.	
Biopetrol Rotterdam		Netherlands	Rotterdam-Botlek	Under development	By setting up another biodiesel production site in Rotterdam: LURGI AG is contracted to build there two biodiesel production facilities, where each one is expected to produce 400,000 tonnes of biodiesel per annum. Starting with the third quarter 2007, these refineries are scheduled to extend our capacity to around 750,000 tonnes of biodiesel in the first instance.	www.biopetrol-ind.com/unt_home_e.htm
Bio-SNG - biogas production plant		Switzerland	Villingen	In operation, ongoing	The research work for Bio-SNG (Biological Synthetic Natural Gas) are carried out together with the PSI (Paul Scherrer Institute) from Switzerland. In a first step synthesis gas (CO + H ₂) is produced from biomass. In a second step biogas (methane) is synthesized from the synthesis gas. In the course of the year 2001 a 1 MW demonstration plant with a production capacity of 100 m ³ BioSNG (methane) per hour for the sale as biofuel for vehicles shall be installed subsequent to the biomass power plant in Güssing.	www.eee-info.net
Bio-SNG-fueling station		Austria	Güssing	Start-up (operation in test phase)	Within this project, which is part of the EU-project "Bio-SNG" a Bio SNG (Biological Synthetic Natural Gas) fueling station is built at the biomass power plant in Güssing. The Bio-SNG is produced from the product gas of the biomass gasifier and is conditioned to a quality, that can directly be used as biofuel in vehicles or that can be fed into the gas grid. The fueling station provides testing vehicles with biogas. The quality of the Bio-SNG is controlled continuous and is varied targeted. Within a monitoring of the testing vehicles the effects of the usage of Bio-SNG from different quality is recorded.	www.eee-info.net
Biovalue Eemshaven		Netherlands	Eemshaven	Start-up (operation in test phase)	Development of a Biodiesel factory in the Eemshaven implementing the new patented technology. The factory is defined as follows: An esterification-unit with a 66,000 ton capacity for Biodiesel; A press with a capacity for 185,000 tons of rapeseed; A storage capacity for 2 weeks production. The plant is located in the Eemshaven.	www.biovalue.nl



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Blooming Futures		United Kingdom	West Sussex	In operation, ongoing	Blooming Futures is a not-for-profit workers' cooperative that has established itself as one of the UK leaders in promoting the use of Pure Plant Oil in diesel engines. Blooming Futures have built a wealth of knowledge and experience in actually converting engines to run off vegetable oil, and it continues to advise government, industry and the general public on routes to more sustainable transportation, powered by cold-pressed, Pure Plant Oil	www.bloomingfutures.com
Boosting Bioenergy in Europe		Belgium	Louvain-la-Neuve	Completed, stopped, closed-down	Boosting Bioenergy aims helping the European Community to achieve its ambitious goal for bioenergy through targeted actions in 2005 and 2006. It is proposed by the European Biomass Association and 8 of its members. It considers EU 25 but more detailed work will be carried out for 7 countries (AT, BE, BU, FI, FR, DE, SE). The project will produce reports, a printed brochure on the Bioenergy Vision, organise the European Biomass days (500 events) and 2 international conferences for bioenergy professionals.	www.aebiom.org
Building a grid of plant oil filling stations in Germany.	PROKON OIL	Germany	Itzehoe	In operation, ongoing	Since the beginning of 2007, the PROKON Oil GmbH & Co KG is distributing plant oil and building up a grid of filling stations in Germany. In the first year, 20 Mio. litres of plant oil have been sold.	www.prokon-oil.de
Carbon Labelling Project		Malta	Marsa	In operation, ongoing	The Malta Blending Programme will involve both an initiative to deliver a pre-blended biodiesel/diesel fuel to distributors and an evaluation of benefits of a carbon labelling program for fuel and lubricants. The Malta Resources Agency will monitor pilot projects in Germany and the Netherlands and evaluate whether and how to set up their own national programme.	www.mra.org.mt
Carbon Labelling: A European Pilot Initiative on Biodiesel and Fuel Efficiency	Carbon Labelling	Germany	Munich	In operation, ongoing	This project will implement several labelling initiatives in Europe focussing on products and services in the transport sector with low CO2 emissions. Activities will include: A review of carbon life cycle studies providing scientific backing for the carbon reductions on labels; An international Advisory Board of experts providing advice and recommendations; A carbon labelling pilot programme for biodiesel (B100) and additives implemented by the German fuel distributor Q1; A pilot labelling programme for low carbon freight carriers to promote truck and horticultural companies using higher blends of biodiesel and additives; The development of a concept to overcome barriers to biodiesel use in smaller EU Member States by pre-blending diesel with biodiesel; A dissemination strategy to inform stakeholders and consumers about labelling initiatives and motivate farmers, producers and policy makers to discuss pathways for lowering carbon emissions in the transport sector.	www.co2star.eu
Champagne Céréales - Partenaire Diester		France	Reims	In operation, ongoing	The French company Champagne Céréales produces rape for diester production and uses diester biodiesel for the company fleet. It also does research projects for the usage of diester in vehicles.	www.champagne-cereales.com



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Cities for Mobility	CFM	Germany	Stuttgart	In operation, ongoing	Cities for Mobility is a worldwide network of over 400 local administrations, transport companies, private firms, universities and NGOs from 60 countries (membership is free of charge). Under the coordination of the City of Stuttgart the partners develop, apply and disseminate new approaches for sustainable urban mobility. They meet at the annual World Congresses at beginning of June in Stuttgart and engage in joint projects in all fields from renewable energy use in transport to telematics and from cycling to Metro transport.	www.cities-for-mobility.net
CIVITAS-SMILE	SMILE: Suceava	Romania	Suceava	In operation, ongoing	The objectives of SMILE are: improved urban air quality, create a sustainable, safe and flexible traffic system that improves the quality of life in two leading cities, Malmö (Sweden) and Norwich (UK), and in three follower sites, Tallinn (Estonia), Suceava (Romania) and Potenza (Italy).	www.eltis.org/study_sheet.phtml?study_id=673&lang1=en
CIVITAS- SMILE-Malmö	SMILE - Malmö	Sweden	Malmö	In operation, ongoing	Many of the 18000 employees at the city of Malmö will gain a first hand experience of driving a clean vehicle and the public will be more likely to view clean vehicles as mainstream. 250 new clean vehicles will make the municipal fleet closer to totally clean, from 45% today.	
Clean and Hydrogen Rich Synthesis GAS	CHRISGAS	Sweden	Växjö	In operation, ongoing	Renewable energy technologies are vital for our future. To combat the climate change we need to reduce the use of fossil fuel in the transport sector and develop technologies for the production of vehicle fuel based on renewable energy sources. The aim of the CHRISGAS Project is to demonstrate, within a five-year period, the production of a clean hydrogen-rich synthesis gas from biomass. At the heart of this Project is the Vaxjo Varnamo Biomass Gasification Centre (VVBGC) in Sweden which has a biomass-fuelled pressure IGCC (integrated gasification combined-cycle) CHP (combined heat and power) pilot plant facility CHRISGAS is funded by the EC 6th Framework Programme and the Swedish Energy Agency. It runs for 5 years beginning 1st September 2004. 16 Partners representing industry and research from 7 EU member states are involved in the Project.	www.chrisgas.com
Cleaner vehicles in Preston	CIVITAS - SUCCESS - Preston	United Kingdom	Preston	In operation, ongoing	The use of biodiesel at up to 30% concentration in hybrid buses to demonstrate its technical feasibility and environmental advantages	www.civitas-initiative.org
CNG buses in Szeged, Hungary		Hungary	Szeged	In operation, ongoing	The public bus fleet of Szeged comprises 41 CNG buses in total. Annual mileage per bus varies between 60'000 and 80'000 km. They operate in an urban environment serving as a public transport fleet. Procurement of CNG buses started in 1996 and was continued until 2006. The main reasons for using CNG back in 1996 were economic. The prices of natural gas were much lower making CNG a cheap alternative. Despite increases in the prices of natural gas the company decided to keep on using CNG buses. Low exhaust gas emissions were of high relevance in this decision process.	www.eltis.org/study_sheet.phtml?study_id=1608&lang1=en



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CNG-Vehicles for parcel delivery used by DHL in Germany		Germany	Deutsche Post	In operation, ongoing	DHL operates 170 EEV (Environmentally Enhanced Vehicles) for parcel delivery in 19 German cities. In Germany about 2.8 Million parcels are delivered by DHL (the logistic brand of Deutsche Post AG) every day. In 2007 it operates 6,500 specific delivery vehicles. Since 2005 CNG delivery vehicles with the highest environmental standard EEV were introduced in cities with high environmental impacts by traffic.	www.eltis.org/study_sheet.phtml?study_id=1629&lang1=en
Collecting used cooking oils to be recycled as bio-fuel	Ecobús	Spain	Valencia	In operation, ongoing	This is a pilot project that collected used vegetal oil used in cooking and turned it into biodiesel, to be used in the urban buses of Valencia. The project had as a main objective the removal of a waste, the used vegetal oil, by turning it into a resource, biodiesel.	www.ecobus.info/
Common procurement of collective and public service transport clean vehicles	COMPRO	Italy	Roma	In operation, ongoing	The aim of COMPRO is to enhance the development of the clean vehicles market (CNG and hybrid) taking action on the demand side. In concrete terms COMPRO will analyse the conditions for a common procurement of clean collective and public service transport vehicles at European scale by creating an international buyers consortium of local authorities.	www.compro-eu.org
Competitive hydrogen from agro-forestry residues		Belgium	Brussels	In operation, ongoing	The aim of this project is to develop a new process to get from humid biomass to nearly pure hydrogen and solving the tar problem. The original process comprises of four steps. The proposed process is limited to the most innovative of the steps, skipping the first (drying and pelletising fresh biomass) and the last (steam shift of syngas to hydrogen). However the process will still give good added value. It is expected that the development of the second step (carbonisation of the pellets) and the third step (steam reforming of the carbonised pellets) gives maximum added value. It will lead to results that can easily be combined with the first and last step to yield a process that can be implemented commercially. The second and third step require the most research to define the best process parameters and to obtain an optimal energetic efficiency and the best composition of the syngas, with the least possible amount of impurities (resolving the known tar problem for gasification).	www.eubia.org/326.0.html#821
Co-processing of upgraded bio-liquids in standard refinery units	BIOCOUP	Finland	Espoo	In operation, ongoing	The project has six sub-projects, each of which deals with critical areas of the proposed biomass utilization chain. The overall objectives in each sub-project are: Biomass liquefaction and energy production: To reduce production costs; Upgrading technologies: To develop de-oxygenation technology and up-scale to process development unit; Evaluation of upgraded bio-liquids in standard refinery units: To assess the viability of co-processing; Conversion to chemicals: To identify optimal recovery and fractionation strategies and technologies for the production of discrete target compounds from bio-liquids; Scenario and life cycle analysis: To outline a low-risk, low-cost development path for the most promising bio refinery chains; Transversal activities: To optimise the impact of the project by a structured management and the efficient coordination of transversal activities (standardisation, exploitation and dissemination).	www.biocoup.eu/



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Creative Regeneration of Power	CROP	Germany	Mannheim	In operation, ongoing	The CropEnergies-Gruppe does produce bioethanol out of wheat and sugar. The bioethanol produced can be used in gasoline engines.	www.cropenergies.com
Cristal Union - Biofuel production		France	Paris	In operation, ongoing	Cristal Union is a grower-owned cooperatives group, which produces about 18 % of the sugar beet acreages in France. Cristal Union focuses on two main activities: production of sugar for industry and traditional sugar; production of alcohol and ethanol (perfume, cosmetics, food, carburation). With its 8 production units located in the east (Bazancourt, Sillery, Arcis sur Aube, Bûchères, Erstein, Corbeilles en Gâtinais, Aiserey) and south of France (Deulep- close to Marseilles), an annual average production of 700.000 tons of sugar, 1.6 million hectolitres of alcohol, 1.5 million hectolitres of ethanol, Cristal Union has become a major economic actor in the sugar markets through its commercial subsidiary "Sucre Union", and in the alcohol and ethanol markets, through its subsidiaries "France Alcohols, Ethanol Union/Holding and Deulep". Cristal Union is also present in the dehydrated products for animal consumption through Desialis.	www.cristal-union.fr
Delta-oil Biofuel filling		Netherlands	Leeuwarden	In operation, ongoing	Delta-Oil has 3 filling stations with biofuels in the Northern part of the Netherlands. Delta-oil is planning to increase the number of biofuel stations.	www.delta-oil.nl
Demonstration of a flexible plant processing organic waste, manure and/or energy crops to bio-ethanol and biogas for transport	FLEXFUEL	Denmark	Esbjerg	In operation, ongoing	The FLEXFUEL project aims to prove that organic waste, sludge from wastewater treatment plants, animal manure and energy crops may be converted to ethanol and biogas for motor fuel and to fertiliser. This kind of treatment plant can be used all over the Europe and can produce ethanol at the same price as upgraded biogas.	http://websrv5.sdu.dk/bio/flexfuel.htm
Demonstration of the Production of Biodiesel from Tallow and Recovered Vegetable Oil (RVO)	BIODIEPRO	United Kingdom	The Rural Centre, West Mains, Ingliston, Newbridge, Midlothian	Completed, stopped, closed-down	The project will demonstrate an environmentally sensitive solution for the safe disposal of animal by-products, increase the knowledge of biodiesel production and investigate the potential in the fuel supply sector. It will be necessary undertake first life cycle analysis of biodiesel produced from RVO and tallow.	www.argentenergy.com/
Derichebourg Environnement - Partenaire Diester		France	Paris	In operation, ongoing	Délichebourg is member of the group CFF recycling and is a lavation and waste removal company with 200 vehicles. All the vehicles run with diester and carry the logo "je roule au diester" (I go with diester) to sensitise the population to the usage of biofuels.	www.derichebourg.com
Deutsches Rotes Kreuz (DRK) Landstuhl		Germany	Landstuhl	In operation, ongoing	The DRK Landstuhl has refitted the 23 company cars from diesel to rape oil fuel and has its own fuelling station with rape oil.	www.kv-kl-land.drk.de/
Developing a network of actors to stimulate demand for locally produced biodiesel from used cooking oils.	BioDieNet	United Kingdom	London	In operation, ongoing	BioDieNet aims to involve Energy Agencies across Europe in the local production and distribution of biodiesel from used cooking oils (UCO), stimulating demand for higher concentrations of this biofuel. The 17 partners in 10 regions will form a network to share expertise and experience	www.biodienet.eu



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					and provide specific, practical information, education, dedicated tools and support to help set up and maintain projects which result in greater uptake of locally-produced biodiesel by public and private vehicle fleets as well as individual vehicle owners. In contrast to the main focus of the biofuels industry on large-scale, centralised production, which creates its own adverse environmental impacts, BioDieNet will specifically aim to reduce impacts by localising the total cycle of waste oil collection, biodiesel production and distribution to users.	
Developing local supply networks, linking biofuel producers with public sector users	Bio-Nett	United Kingdom	London	In operation, ongoing	This project intends to develop a supportive framework for encouraging the growth of local markets for bio-fuels as a low carbon fuel for Local Authorities and other public sector transport fleets across the EU. Bio-NETT will enable and support attitudinal change and capacity building within public sector organisations, the agricultural sector (including young farmers and rural women) and the wider supply chain. This will help them to recognise the benefits of sustainable practices around the theme of the development and use of bio-fuels. Ultimately the project seeks to increase the supply and demand of liquid bio-fuels by creating a more integrated and cohesive market structure, linking suppliers and users through regional networking in both the urban and rural context.	www.bio-nett.org
Development and evaluation of optimised cropping systems for the agricultural production of energy crops under various conditions in Germany	EVA	Germany	Dornburg	In operation, ongoing	The German title of the project is: "Entwicklung und Vergleich von optimierten Anbausystemen für die landwirtschaftliche Produktion von Energiepflanzen unter den verschiedenen Standortbedingungen Deutschlands" Since 2005 for three years, different energy crop rotations are tested in six different but typical regions in Germany. Among the tested crops are plants, which have nearly disappeared from Germany's agricultural land. The aim of the project is, to assure, a broad basis of species for the cultivation of energy crops in the future.	www.tll.de/vbp
Development of a Biotechnological High Yield Process for Ethanol Production Based on a Continuous Fermentation Reactor	FERMATEC	Portugal	RAMALHAL	Completed, stopped, closed-down	The FERMATEC project will provide a modular fermentation unit for continuous ethanol production. Compared with traditional units, it will decrease ethanol production costs to a minimum of 20% and increase bio-ethanol production yield to approximately 25 g EtOH/l.h. The main achievements of FERMATEC project will have an environmental, social and economic impact: applying biotechnology to the production of renewable fuels will directly improve the environment; enhancing sustainable development by using waste products and valorisation of sub products; increasing ethanol production plants and updating the large number of European distilleries that still use traditional fermentation processes.	http://fermatec.tecnia.net/
Development of a sustainable and complete system for biodiesel production from energy crops	BIOSIS	Greece	Ioannina	In operation, ongoing	BIOSIS is a pilot project aiming at developing a sustainable and complete system for the production of biodiesel from energy crops and exploiting their by-products. It is co-financed through INTERREG IIIA (Greece-Italy) programme and started in early 2007. Its originality is that the energy crops will be cultivated with biological methods, i.e. without the use of pesticides and fertilizers, a procedure that does not affect the	http://www.epirus-biosis.gr



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					<p>biodiesel product. In the region of Ioannina, about 5 acres of land will be cultivated with energy crops that are suitable for the climate of the region such as rapeseed and sunflower. Apart from these cultivations, a pilot biodiesel production unit will be implemented in the University of Patras.</p> <p>The project is about to finish at the end of 2008, and its results will illustrate the viability of biofuel production in the regions of Greece (Ioannina) and Italy (Apulia).</p>	
District Administrator Aachen	Landrat Kreis Aachen	Germany	Aachen	In operation, ongoing	The municipal fleet was retrofitted for the use of vegetable oil.	www.kreis-aachen.de
Driving Clean Programme		Netherlands	Hoofddorp	In operation, ongoing	<p>TPG Post Pakketservice is changing its fleet of vehicles to run on 100% biodiesel. TPG Amsterdam has a fleet of 56 delivery vans that are used to deliver packages six days a week all around the Amsterdam area. The aim is to make the vehicles more environmentally friendly. Wiersma & Zn Oliehandel in Sneek supplies the biodiesel, made from rapeseed oil. The TPG drivers refuel the vehicles on their company's premises. Importer Pon VW and owner Athlon Car Lease Nederland are also involved in the project, and monitor whether the use of pure biodiesel results in extra maintenance or other problems. The Volkswagen plant in Germany has approved the use of 100% biodiesel in these delivery vans. This project is part of the Driving Clean programme, an initiative of the parent company, TNT. In addition to driving around Amsterdam on biodiesel, a trial is also being conducted into fitting soot filters to the existing fleet of vehicles, and 176 lorries have been ordered with Euro V engines.</p>	
Driving on compostable waste		Netherlands	Zwolle	Start-up (operation in test phase)	<p>ROVA, the province of Overijssel, VAR and Salland Olie have joined forces in a research project entitled "driving on gft". Under this project, ROVA will build a plant in Zwolle to ferment gft waste (compostable waste) into biogas, which (after filtering) can be used a transport fuel. After fermenting the compostable waste, the residue is allowed to decompose into high-grade compost. The project hopes to prove that biogas contributes to a sustainable energy supply as well as better urban air quality. The project also includes the construction of a public filling station for biomethanol. Fifteen refuse-collection vehicles will be used to demonstrate that vehicles can run on household refuse. The demonstration project has been granted a subsidy from the Ministry of Economic Affairs. The demonstration project runs until March 2010. The project focuses on processing around 30,000 tons of biomass per year into around 3 million m3 of biogas with a methane content of 55-60%.</p>	
E85 bioethanol cluster in Somerset County	BEST - Somerset	United Kingdom	Taunton, Somerset	Start-up (operation in test phase)	<p>Somerset County Council's activities within BEST include the introduction of 300 bioethanol cars into the area of Somerset, raising the awareness of bioethanol as a viable alternative fuel and conducting surveys of public attitudes. Activities in BEST also include: training of fuelling station staff, investigating safety aspects and recommendations for storing and dispensing bioethanol for fuelling purposes. A study of existing national and local incentives will also be performed.</p>	www.best-europe.org



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Ecocarburantes Espanoles		Spain	Cartagena	In operation, ongoing	Abengoa is a European biofuel producer with three bioethanol production plants in Spain. One of them is Ecocarburantes Espanoles.	www.abengoabioenergy.com
Ecoson B.V. in Son		Netherlands	Son	In operation, ongoing	Ecoson, established in Son (Netherlands), was created in 2007 as a component of parent company Sobel B.V., which in turn is part of VION Food Group. Ecoson comprises a fermentation installation for the production of sustainable energy, a refinery unit for animal fats and a biodiesel factory. Annual production capacity is 8,000 MWh of electricity and 9,000 MWh of thermal energy from biogas, 50,000 tonnes of refined fat and 5,000 tonnes of biodiesel. The raw materials are existing residual flows from the meat-processing industry. Ecoson gives concrete form to the ambition to produce energy from animal raw materials in a sustainable manner. Ecoson started production in December 2007.	www.ecoson.nl
E-energymarket		Netherlands	Huizen	In operation, ongoing	E-Energy Market is an electronic platform for the biofuel industry and brings together companies involved in the biofuel industry. Buyers and sellers can initiate auctions and in this way trade with each other in a very time and cost effective way. E-Energy Market matches the buyers and sellers. Herewith it brings transparency to the biofuel market. The transparency will stimulate the use of biofuels with all its beneficial effects. The system of auctioning is comparable to eBay for the Regular Auction. With Reverse auctions the buyer takes the initiative and asks for offers, comparable to the RFQ (Request for Quotation). Any product that could be defined as renewable energy, biofuels or bio-energy or related to these categories, can be traded on www.E-EnergyMarket.com . This includes biodiesel, bioethanol, biomass, vegetable oil, feedstock, hardware, vehicles, books, raw materials and business services.	www.e-energymarket.com/
Effective and Low-disturbing Biofuels	Elobio	Netherlands	Petten	In operation, ongoing	The current market introduction of biofuels has significant impacts on other commodity markets. Such policy-induced market disturbances can become a major barrier for industry and public support for biofuels. Therefore, this project develops low-disturbing policy options, enhancing biofuels but minimising the impacts on e.g. food and feed markets, and markets of biomass for power and heat. The project consists of a review of current experiences with biofuels and other RE policies and their impacts on other markets, iterative stakeholder-supported development of low-disturbing biofuels policies, model-supported assessment of these policies' impacts on food & feed and lignocellulosic markets, and finally an assessment of the selected optimal policies on biofuels costs and potentials. A dissemination package accompanies the project, inter alia aiming at providing relevant inputs for the next review of the biofuels directive (2008), and other relevant policy developments.	www.elobio.eu
Effectiveness of measures to accelerate market introduction of biofuels and hydrogen	PREMIA	Belgium	Mol	Completed, stopped, closed-down	PREMIA investigates the effectiveness of support programmes to facilitate and secure the market introduction of alternative motor fuels in the European Union. Focus is on BIOFUELS (biodiesel - bio-alcohol - biogas - biomass-to-liquid fuels) and HYDROGEN for transport.	www.premia-eu.org



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					Results will be country-specific policy options and suggestions to indicate the most effective approach to introduce alternative motor fuels	
Elaboration and adoption of standards concerning quality specifications and test methods for bio-ethanol to be used as automotive fuel in concentrations between 0 and 100%.	BIET	Netherlands	Delft	Completed, stopped, closed-down	When using fuels from biological origin, contaminants can damage the engine or turbine or incur an unacceptable level of maintenance. In addition the fuel must be fit for purpose i.e. maintain its quality throughout the supply chain from producer to end-user and enable car engines to perform properly under varying climatic conditions. Bio-ethanol is derived from different sources and can contain different levels of contaminants. Currently there are no well-developed and standardized measurement techniques available for bio-ethanol. The Comité Européen de Normalisation (CEN) is developing a specification for fatty acid methyl esters in diesel. The objective of this project is to write a similar specification for bio-ethanol. The result will be one or more CEN Standards. As acceptance and use by others is considered to be essential, dissemination and internalisation of the Standard forms part of this project.	
Energy holding - biodiesel production and energy trading		Austria	Wöllersdorf	In operation, ongoing	Under the roof of the "energy holding GmbH" four different GmbHs (Ltds) are working related to the biodiesel facility in Wöllersdorf of the energy biodiesel production GmbH, which is one of the four Ltds. The energy trading GmbH's main activities are trading with mineral oil products and raw materials for the biodiesel facility in Wöllersdorf. Since 2005, the energy biodiesel production GmbH has successfully managed the biodiesel facility in Wöllersdorf. However, the facility in Wöllersdorf has been producing biodiesel since 2002. The facility switched to full production in spring 2006 after some significant investments and a change-over from batch production to continuous operation. Furthermore, a new cleaning method based on a specifically developed cleaning process was introduced in April 2006. Our facility currently produces 20,000 tons of biodiesel per year in accordance with EU Standard EN 14214. Capacity will be increased to 40,000 tons per year in spring 2007.	www.energyholding.at
Energy Study on Oeiras Municipal Fleet		Portugal	Oeiras	In operation, ongoing	The Energy Study on Oeiras Municipal Fleet started in 2005, with the intent of gathering the data needed for a diagnosis over the fleet's energetic and environmental behaviour. The work was performed in Oeiras, coordinated by OEINERGE in partnership with the Municipality of Oeiras (CMO) and the Technical University of Lisbon (IST). The objective of the project was to perform an overview on the current performance of the fleet, and advance with proposals to implement alternative fuels, alternative propulsion and measures to reduce fuel consumption and enhance environmental behaviour.	www.oeinerge.pt/servicos.asp
Environmentally Adapted Mixed Diesel Fuel Systems Containing Diesel, Ethanol and RME	DEAR	Sweden	Stockholm	Completed, stopped, closed-down	The purpose of this project is to reduce harmful emissions from diesel-powered vehicles and utilise set-aside farmed land. The project concerns the formulation of environmentally adapted diesel fuels in the form of a micro emulsion, where a part of the ordinary fossil diesel fuel is replaced with fuel from renewable resources (e.g. bio-alcohol). These fuels are expected to render lower NOx, carbon-monoxide,	



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					hydrocarbons and particulate emissions; induce lubrication properties; and lower the net carbon dioxide charge to the atmosphere. The micro emulsions will be tested with respect to physical and engine performance, which will form the criteria for further evaluation (e.g. eco-, tox- and techno-economical) and thus constitute the milestones in the project. The project will provide the scientific and technological basis for the formulation of diesel-biofuel micro emulsions for further exploitation by the industrial contractor.	
Ethanol buses		Sweden	Ronneby	In operation, ongoing	Ethanol buses is part of the European BEST project. Ethanol buses are being used in: 8 cities in Sweden; Madrid, Spain; La Spezia, Italy; Sao Paulo, Brazil; Slupsk, Poland; Nottingham, UK; Oslo, Norway.	www.ethanolbus.com
Ethanol fleets in Basque Country	BEST - Basque	Spain	Bilbao	Start-up (operation in test phase)	Ente Vasco de la Energía activities within BEST include: Replacement of 200 vehicles in government fleets by FFVs; Installation of E85 supply stations to ensure availability of the fuel for the fleets of vehicles involved in the replacement programme; Study of the logistics of producing and supplying E85 in the Basque Country, promoting own production from cereals; Acquisition of 3 new models of FFVs to be presented to undecided companies and organisations in order to help persuade and involve them; Campaigns to publicise results and provide incentives for purchase of FFVs; Analysis of the effects that the policy of replacing conventional fuels with biofuels has on the economy and on job creation	www.best-europe.org
Ethanol fleets in La Spezia	BEST - La Spezia	Italy	La Spezia	Under development	Municipality of La Spezia is in charge of the following BEST activities: Introduction of 5 FlexiFuel vehicles in the municipal fleet; Actively promoting the purchase of 90 FlexiFuel vehicles by private fleets (SMEs) or citizens; Study and application of incentives at local and national level; Installation of E85 filling stations; Information and dissemination activities; Evaluation.	www.best-europe.org
Ethanol fleets in Madrid	BEST - Madrid	Spain	Madrid	Under development	BEST Activities carried out by the Department of Environment Madrid include: Introduction in the municipal fleet 25 Flexifuel cars and 5 bioethanol buses; Demonstration activities of their operation; Implementation of new fuel stations of Bioethanol E95 and E85; Dissemination and communication activities to promote the use of bioethanol vehicles.	www.best-europe.org
EU bioenergy technology for Bulgaria and Romania	INFBIOMENXP	Bulgaria	Sofia	Completed, stopped, closed-down	The principal objective of the project is the dissemination of information in Bulgaria and Romania concerning modern EU technology for biomass-based energy production. Due to the considerable energy potential of the available biomass resources in these countries, such development could make a serious contribution to the general objective of the energy part of the RTD Programme of the EU for the reduction of greenhouse gas emissions. An innovative aspect of the project consisted of selecting the most appropriate EU equipment for the circumstances in Bulgaria and Romania and for possibly combining EU and locally produced equipment. The proposed	



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					technologies were selected to be cost-effective for the Bulgarian and Romanian economic conditions.	
European bioenergy network	EUBIONET II	Finland	Jyväskylä	In operation, ongoing	EC project aimed at Boosting Bioenergy in Europe through targeted actions. Efficient trading of biomass fuels and analysis of fuel supply chains and business models for market actors by networking. The network analyses current and future biomass fuel market trends and biomass fuel prices. It also collects feedback on the suitability of CEN 335 solid biofuel standard for trading of biofuels. Estimation on techno-economic potential of the biomass will be given until 2010 based on the existing studies and experts opinions. In forest biomass co-operation with forest industry stakeholders aims to find a proper balance between forest industry raw material and bioenergy use. It will analyse, select and describe the most suitable trading and business models for small and large scale biofuel supply chains for heat and power production by taking into account the environmental aspects and sustainability.	www.eubionet.net/
Flanders Bio Fuel		Belgium	Gistel	Start-up	Flanders Bio Fuels is a young SME producing biodiesel and renewable electricity from, among other things, used vegetable oil and rapeseed oil.	
Ford Focus FFV procurement	FFV procurement Sweden	Sweden	Stockholm	Completed, stopped, closed-down	In 1998, after a pilot study was made, the City of Stockholm contacted the vehicle manufacturers. In November 2001 Ford started to sell the Focus FFV at the same price as the petrol version	
Fossil Fuel Free Kristianstad		Sweden	Kristianstad	In operation, ongoing	Kristianstad municipality, Sweden, is working on becoming fossil fuel free. The different projects within this work are funded by municipal means and state grants. In 1999 the executive committee of Kristianstad municipality unanimous decided to declare its will to become a Fossil Fuel Free Municipality. The reduction of fossil fuels is to be achieved primarily by the use of bio-fuels, both biomass as fuel for heating and production of electricity and biogas as fuel for local buses and other vehicles. Other activities are efforts in the field of energy efficiency and changes in behaviour patterns. Community planning is an important instrument to promote a Fossil Fuel Free municipality. The target audience is all sectors of the society, for example companies, households, children etc. The yearly CO ₂ -emissions have been reduced by 123 000 tonnes. One conclusion that can be drawn is that it is easier to reduce the emissions from the heating sector than from transports.	www.kristianstad.se/klimat
Fueling Stations Network	OIL!	Germany	Hamburg	In operation, ongoing	The OIL! Tankstellen GmbH offers bioethanol85. The OIL! Tankstellen GmbH is the first supra-regional company of filling stations in Germany offering bioethanol 85 at its filling stations.	www.oil-tankstellen.de
Ghent Bio-energy Valley		Belgium	Ghent	In operation, ongoing	Ghent Bio-Energy Valley is a Public Private Partnership supporting the development of sustainable bio-energy activities for transport (biofuels) as well as electricity generation and resulting economic growth in the region of Ghent, Belgium. Ghent Bio-	www.gbev.org

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					Energy Valley is a joint initiative of Ghent University, the city of Ghent, the Port of Ghent, the Development Agency East-Flanders and a number of industrial companies related to the Ghent region that are active in the fields of bio-energy generation, distribution, storage and use. Ghent Bio-Energy Valley is a leading European initiative for the development of the bio-based economy of the future. Ghent Bio-Energy Valley promotes the development of the bio-based economy through collaborative programs, joint initiatives and synergy creation between the partners in the fields of Research & Development, structural measures and policy, logistics and communication towards the general public.	
GIS-based planning tool for greenhouse gases emission reduction through biomass exploitation	BIOSIT	Italy	Florence	Completed, stopped, closed-down	The aim of the BIOSIT project is to develop an efficient and sustainable strategy for the exploitation of biomass resources for energy use within specific applications. To support the definition of the energy policy an innovative Geographical Information System based methodology and a GIS tool have been developed. The geo-referenced data (spatial distribution and characterization of biomass resources, transport network, infrastructures, energy demand, etc.) of the GIS are the basic support of the methodology and the software tool in which the methodology has been implemented through related algorithms. The BIOSIT project is co-funded by the European Commission within the LIFE III Community Programme; this is a financial instrument supporting the definition of environmental policy and legislation in the European union, by co-financing actions favourable to the environment; it is active in EU countries, accession countries and countries bordering the Mediterranean Sea and the Baltic Sea.	www.etaflorence.it/biosit
Global Process To Improve Cynara cardunculus Exploitation for Energy Applications.	BIOCARD	Spain	San Sebastian de los Reyes	In operation, ongoing	The proposal aims at demonstrating technical and economical feasibility of a global process for cardoon (Cynara cardunculus L.) exploitation for energy applications. This energy crop is appropriated for Mediterranean Area, where high problems about water insufficient exist. A combined process to produce a low-cost liquid biofuel from seeds and energy from lignocellulosic biomass is proposed. Different technologies for biomass energy conversion will be researched and compared in order to increase competitiveness and improve the costs. New heterogeneous catalysis for liquid biofuel production will be tested.	
Gota Verde		Netherlands	Utrecht	In operation, ongoing	Within the framework of this project, a team of European partners is supporting the small-scale production and local use of biofuels in Honduras, thereby contributing to regional economic development. The project was launched in early 2007 and was followed by a preparatory phase during which information was gathered and contacts were made. Contracts with local partners, a local co-ordination team, and a field office are now in place. The project currently encourages farmers in the region to cultivate Jatropha seeds, an easily grown biofuel crop which yields large amounts of fuel per hectare.	www.strohalm.net/en/gotaverde.html



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Government of Malta - biodiesel from waste oil		Malta	Floriana	Completed, stopped, closed-down	Malta has nearly no potential in biofuels from agriculture. So far, the only practicable solution for the production of biodiesel in Malta is, to produce it from domestic and industrial waste oil. In 2003, the Government of Malta made a demonstration project using biodiesel produced by EORC for the vehicle fleet of their authorities. EORC offers a catalogue with bio-fueling stations in Malta on its website.	www.mri.gov.mt/ www.eorc.com.mt
Green Planet - Fuel for the Future	Green Planet	Netherlands	Pesse	Under development	This Green Planet filling station is the first of several planned sustainable filling stations. Located in Hoogeveen, near the highway this station will sell E10, E85, Biodiesel, PPO and CNG. A documentation centre and display will be present at the station for education and promotion purposes.	
Groupe des Eaux de Marseille - Partenaire Diester		France	Marseille Cedex 6	In operation, ongoing	Groupe des Eaux de Marseille supplies the city with water and cares for public hygiene. The "Groupe des Eaux" uses biodiesel in 100 of its vehicles.	www.eauxdemarseille.fr
Huelva Project		Spain	Huelva	Under development	In November 2006, Bioverda took a 50% shareholding in a biodiesel development project in the port of Huelva (Andalucía, Southern Spain). Bioverda has partnered with HispanoAmericana de Biocombustibles S.A. (HABC) to construct and operate the plant using sustainably sourced vegetable oils as feedstock. The remaining 50% is held by Bioverda's Spanish partners HABC, who bring considerable experience in the sector.	www.bioverda.com/location_map/projects/project06.asp
Hydrogen for Transport in Europe	HyLights	Germany	Ottobrunn	In operation, ongoing	Developing the demonstration project framework and support of ongoing demonstration activities. HyLights is a coordination action to accelerate the commercialisation of hydrogen and fuel cells in the field of transport in Europe. HyLights will assist all stakeholders in the preparation of the next important phase of the transition to hydrogen as a fuel and long-term renewable energy carrier.	www.hylights.eu
Impact and New Markets for the components industry due to the new powertrains and biofuels		Spain	Alcobendas	In operation, ongoing	The component industry of different countries like Spain are being threatened by the new powertrains and biofuel and by the relocation to countries with lower labour cost. In this context, this study tries to identify the powertrains and biofuels and the advanced of it elaborating a road-map. It also try to identify and understand the impact of it in the industry and identify new possibilities of market for the component industry.	
Implementation and large-scale deployment of biodiesel and CNG fleets in Ljubljana	CIVITAS - MOBILIS - Ljubljana	Slovenia	Ljubljana	In operation, ongoing	Since July 2005 two demonstration cases are in progress in Ljubljana within the CIVITAS II-MOBILIS. A 20% mixture of bio-diesel is being tested as fuel used for two older buses, with engines standardised as Euro I. Since practical use of 20% bio-diesel mixture shows no deviations or influence on the engine or on the driving performance LPP has decided to go over to the use of 100% bio-diesel.	www.civitas-initiative.net/city_sheet.phtml?id=16&lan=en
Implementation of a biodiesel production plant in northern Greece		Greece	Athens	Completed, stopped, closed-down	The aim of this action is to examine the techno-economic viability of a biodiesel plant in northern Greece. The aim is further analysed into the following objectives: a) assessment of the proper biodiesel production chain from an economic and quality point of view and b) to develop a methodology for the implementation of similar investments, in Greece.	



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INEOS - biofuel production		France	Verdun	In operation, ongoing	Production of biofuels for diesel engines, to be used pure or as extender to diesel fuel.	www.ineos.com
Integrated Biomass Utilisation for Production of Biofuels	CO-PRODUCTION BIOFUELS	Denmark	Fredericia	In operation, ongoing	The overall objective is to develop constant energy-effective production systems for co-production of bioethanol and electricity based on Integrated Biomass Utilisation Systems (IBUS) located on existing CHP power stations. The main features of the novel Integrated Biomass Utilisation System is: 1. that is based on simultaneous utilisation of biomass with high lignocellulose content (e.g. straw, waste wood and MSW), producing a surplus of electricity and energy; 2. that the ethanol production is integrated with existing power plants. The main objectives are design, construction and experiments on a small, a medium sized and a large pilot plant.	
Integrated promotion of the biodiesel chain	PROBIO	Spain	Burgos	In operation, ongoing	As Europe is in real need of greener transport fuel, the project focuses on encouraging the integration between production and consumption in the biodiesel supply chain in European countries in general and in the five participant areas in particular: provinces of Burgos, Ávila and Huelva (Spain) and regions of Pomurje (Slovenia) and Abruzzo (Italy). This will be achieved by means of a three-pronged strategy, based on the development of concrete new market initiatives, promotion activities and training actions. The main barriers our project focuses on are: The lack of knowledge and information among farmers, which means a lack of raw material supply for biodiesel plants: The lack of awareness of the general public, local authorities and sectors related to transport about biodiesel use.	www.probio-project.com
Introduction of clean waste collection vehicles in Göteborg	CIVITAS - TELLUS - Göteborg	Sweden	Göteborg	In operation, ongoing	This measure aims at introducing and demonstrating a new type of CNG/CBG heavy vehicle for waste collection.	
J & G Daniel - Partenaire Diester		France	Lescar	In operation, ongoing	The company J & G Daniel is specialised on the production of granulate material and concrete and their transport. The whole vehicle fleet is run by biodiesel diester. The company passes on its knowledge of environmental preservation and tries to give an example with its project in order to sensitise the public for the topic.	www.groupe-daniel.fr
Jatropha curcas evaluation, breeding and propagation programme	JEP	Netherlands	Wageningen	In operation, ongoing	The objectives of this programme are: to minimize risks involved in the introduction of Jatropha curcas as oil producing crop in developing countries; to focus on productivity in relation to genetic resources, environmental settings and crop management; to integrate a wide range of global experience and global collections of Jatropha curcas in the analyses; to share project results and analyses.	http://www.jatropha.wur.nl/
Jatropha plantation		Netherlands	Bergschenhoek	Start-up (operation in test phase)	A plantation for the cultivation of Jatropha Curcas for the production of sustainable and renewable biomass that can be used for second generation biofuels and the production of bioenergy.	



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Joint tender requirements for the purchase of vehicles and transportations in the County of Blekinge, Sweden.		Sweden	County of Blekinge	In operation, ongoing	The case describes a project carried out by the Swedish National Road Administration Southeast Region aiming at adequate joint tender requirements for the purchase of vehicles and transportations in the County. The project started with an analysis of the common practice in municipalities and county councils, followed by a study of good examples and experiences, identification of important requirements and finally resulted in adopted procurement requirements in the county. The Swedish National Road Administration Southeast Region carried out a project during 2003-04 in the County of Blekinge together with all the municipalities, the County Council and the Transport Administration to find out which requirements should be adequate for purchase of vehicles.	www.eltis.org/study_sheet.phtml?study_id=1693&lang1=en
La Ribera in biodiesel		Spain	València	In operation, ongoing	Using waste products as an energy source offers both financial and environmental benefits. The wastes are safely disposed of, while the low raw materials cost makes production of fuels more commercially viable. This was demonstrated by The Agència Energètica de la Ribera (AER), Spain, which created a project called 'La Ribera in biodiesel'. During 2004, 260 698 litres of waste vegetable oil were collected from 418 local businesses and converted into biodiesel. Initially, the fuel was used by municipal vehicles. However, the scheme is being extended to private vehicles, helping to reduce the region's dependence on fossil fuels. In addition, the project aims to extend the collection of waste vegetable oils to domestic homes. However, local councils are reluctant to locate oil collection tanks on streets, due to the risk of accidents.	www.aer-ribera.com
Lantmännen - bioethanol production		Sweden	Norrköping	In operation, ongoing	Since 2001, an ethanol plant is in operation on Händelö, the island less than 10 km from the centre of Norrköping. The site is close to the oil depot and a biomass fired power plant. The plant produces annually 50 million litres of ethanol for gasoline replacement and 45 000 tonnes of protein feed (DDGS).The steam and electrical power needed to operate the plant originate from renewable sources. The steam, which is primarily used for distillation and drying of feed, is produced in the bio-fuelled power plant close by.	www.agroetanol.se
Large Bio-ethanol Project from Sweet Sorghum in China and Italy	ECHI-T	Italy	Florence	Completed, stopped, closed-down	The feasibility study is an on-site application utilising existing commercial technologies from the receipt of the biomass at the plant gate to the products supply. Three new bio-energy/bio-ethanol/Distiller's Dried Grains (DDGs) installations on the basis of Sweet Sorghum sources, two located in China (Dongying City area and Huhote, Inner Mongolia) and one in Europe in the South of Italy, will be examined. The aim of the project is to elaborate a technical, economic and financial study on an integrated bio-electricity/bio-ethanol/DDG production from Sweet Sorghum able to attract private capital investors (bank pool) because of its good economics. The implementation of this project will be eligible for support from the Chinese Government in China and from Local Authorities in the Basilicata Region in Italy.	http://www.wip-munich.de/echi-t/index.html



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Latin America Thematic Network on Bioenergy	LAMNET	Germany	München	Completed, stopped, closed-down	The project 'Latin America Thematic Network on Bioenergy - LAMNET' is engaged in setting-up a trans-national forum for the promotion of the sustainable use of biomass in Latin America, Europe, China and Africa. Currently, the global network LAMNET consists of 48 institutions (Knowledge Centres and SMEs) from 24 countries worldwide, thereby involving a large number of members with excellent expertise in the field of biomass. LAMNET supports the elaboration of recommendations for the development and implementation of policy options for the promotion of biomass and bioenergy as well as the identification of commercially available and reliable biomass technologies worldwide.	www.bioenergy-lamnet.org/
Life cycle assessment of BTL-fuel production	RENEW	Switzerland	Uster	Completed, stopped, closed-down	The production of biofuels by gasification of biomass followed by a synthesis process (BtL-fuels) has been investigated with a life cycle assessment (LCA). The use of different types of biomass (wheat straw, miscanthus and short-rotation wood) has been considered. The LCA investigates the life cycle from seed to tank. The goal was to compare different production routes and show improvement options. The environmental impacts have been investigated for several environmental themes including land and water use. Agricultural biomass production causes most of the environmental impacts in the life cycle. Thus the conversion efficiency biomass to fuel, which ranges between 26% and 69% is most important for comparing the different concepts. The efficiency does not only influence the biomass input. A low efficiency means also higher amounts of air emissions with off-gases and combustion emissions.	www.esu-services.ch/renew.htm
Local and Innovative Biodiesel	LIB	Spain	Leon	Completed, stopped, closed-down	Project aims at creating a friendly environment to deploy local based biodiesel plants throughout Europe, using edible vegetal oils coming from small producers (families & small restaurants). Currently this residue is left by the sewage, contaminating soils and waters, & creating heavy problems in sewage plants. Objectives are the removal of existing barriers (lack of reliable information on this business activity), promote at least two small demo plants at local level, and disseminate information sufficient to encourage industrials to deploy this type of plants and the raw matter procurement system. An important part of this project will be dedicate to the bio-diesel production, to the development of blending recipes, to the quality control training courses, to the diesel engine bench tests and finally to test and evaluate bio-diesel fleets.	www.fedarene.org
Lombardia & Rhein-Main towards Zero Emission.	ZERO REGIO	Germany	Frankfurt	In operation, ongoing	With an overall objective of developing low-emission transport systems for European cities, the specific objectives of the project are: Use of hydrogen as alternative motor fuel; Development of infrastructure systems for alternative motor fuels; Adaptation and demonstration of 700 bar hydrogen refuelling technology; Demonstration of high biofuel blends in flexi-fuel vehicles; Demonstration of alternative fuels via field tests in Rhein-Main (DE), Lombardia (IT); Showing ways for faster market penetration of low-emission alternative motor fuels. Within the project: Conventional refuelling stations will be made available; Infrastructure from source to station will be realised; Different	www.zeroregio.com



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					hydrogen transport solutions will be addressed; Car fleets will be delivered by the automobile manufacturers Opel and Fiat. Technical and socio-economic evaluations of field tests will lead to suggestions/models for faster penetration of alternative motor fuels over larger EU urban areas.	
Measures to Influence transport Demand to Achieve Sustainability	MIDAS	United Kingdom	Liverpool	In operation, ongoing	MIDAS is part of the Intelligent Energy for Europe's (IEE's) STEER Programme. The prime objective of this three year project is to encourage transfer to less energy intense modes of transport by optimising the use of soft measures aimed at reducing demand for private motorised transport.	www.midas-eu.com/
Measuring on PPO/Biodiesel cars		Belgium	Brussels	In operation, ongoing	Measuring PPO transformed cars from public government fleet. Measuring the use of biodiesel (max. 5%) on cars from public government fleet.	
Mobil ohne Fossil		Germany	Weilheim	In operation, ongoing	In 2004, the association "Mobil ohne Fossil" has been founded in Weilheim i.OB. in southern Germany. The association has the aim to promote renewable fuels while taking into account environmental protection as well. One of the initiatives of the association is the "Flexi-Fuel-Initiative" in Germany which focuses on promoting the use of flexi-fuels.	www.mobilohnefossil.com
Monitoring service care Flemish government on ppo, biodiesel (mixture) and diesel		Belgium	Mol, Lommel	In operation, ongoing	Monitoring service care Flemish government on pure plant oil (ppo), biodiesel (mixture) and diesel.	www.vlaanderen.be/milieuzorg
Municipality Mureck		Austria	Mureck	In operation, ongoing	For various years, the municipality of Mureck does pursue a consequent energy strategy. Mureck succeeded in building up the first autarkic bioenergy based energy supply for a whole municipality. The biodiesel is produced by the SEEG (www.seeg.at).	www.mureck.gv.at
Nachwachsende Rohstoffe & Landnutzung (Renewable Resources & Landuse Project)	The NaRoLa Project	Germany	Kiel	In operation, ongoing	In the context of energy security and climate protection, biomass is ascribed high importance. Nevertheless, the land use conflicts resulting from the cultivation of biomass and their economy-wide effects are largely unexplored. The objective of the NaRoLa project funded by the BMBF is the development of an integrated modelling system that connects the interdependencies on global energy markets with the potential for biomass production in Germany. This modelling system will allow an analysis of the contribution of biomass to a sustainable energy supply and the assessment of its economic, environmental and social consequences. The modelling approach is to link the multi-sectoral, multi-regional Dynamic Applied Regional Trade (DART) model and the regionalised agricultural and environmental information system RAUMIS. An additional location module will incorporate new developments in the biofuel technology and location choices of large scale plants into the model linkage.	
Natural Energy Oil - trading with biofuels and its raw materials	NEO	Austria	Wien	In operation, ongoing	NEO - Natural Energy Oil HandelsGmbH is an international trading company which is specialized in dealing with renewable raw material and sources of energy made of this raw material. This means that their products range from oils and greases to final products such as Biodiesel. The company's management have many years of	www.neo-trade.at



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					experience and know-how in international trade of renewable raw material for the production of alternative sources of energy. NEO's products of are tested in regular intervals (also on request by customers) by independent laboratories.	
Neumarkter Lammsbräu - vegetable oil for the company cars		Germany	Neumarkt	In operation, ongoing	In 1996, Neumarkter Lammsbräu started with the preparations for a filling station for vegetable oil. Since 1997, the company is refitting (some of) its vehicles for the use of biofuels (vegetable oil).	www.lammsbraeu.de
New improvements for ligno-cellulosic ethanol	NILE	France	Rueil-Malmaison Cedex	In operation, ongoing	New Improvements for Ligno-cellulosic Ethanol (NILE) is an Integrated Project carried out within the 6th Framework Program of the European Union. The project runs from October 2005 to September 2009. Its overall objective is to develop cost effective production of clean bioethanol from lignocellulosic biomass (LCB), enabling its use as a transport biofuel. NILE will develop, investigate and evaluate new technologies for efficient conversion of lignocellulose to bioethanol. These technologies will be verified using a unique and fully integrated pilot plant providing reliable data for global socio-economic and environmental assessments and for the design of a future demonstration unit.	www.nile-bioethanol.org
Non technical barriers to bio-ethanol development		Italy	Gorizia	In operation, ongoing	The project aims to study non technological barriers that oppose the development of bioethanol production and use, focusing on: 1.trade barriers in order to create an observatory for international energy crops trade. (monitor prices; analyse energy and agricultural policies; employ scenario analysis and sensitivity analysis methodologies in order to forecast trends for market and trade of bioethanol.); 2.information barriers creating a network between buyers and suppliers of small and medium scale plants. The workpackage aims to stimulate innovative sugar crops, e.g. sweet sorghum and Jerusalem artichoke; 3.social barriers assessing socio-economic impacts and professional profiles; 4.cultural barriers analysing the impact on agricultural sector, in particular focusing on conflict with food production, land use and biomass by-products.	
Non-thermal production of pure hydrogen from biomass	HYVOLUTION	Netherlands	Wageningen	In operation, ongoing	The main scientific objective is the development of a 2-stage bioprocess for the cost-effective production of pure hydrogen from biomass. Sub-objectives are: 1. Pre-treatment technologies for optimal biodegradation of energy crops and bio-residues; 2. Maximum efficiency in conversion of biomass to hydrogen; 3. Assessment of installations for optimal gas cleaning; 4. Minimal energy demand and maximal product output through system integration; 5. Identification of market opportunities for a broad feedstock range. The main technological objective is the construction of prototype modules of the plant which form the basis of a blue print for the whole chain of biomass to pure hydrogen. Sub-objectives are prototypes of: 1. Equipment for mobilization of fermentable feedstock; 2. Reactors for thermophilic and photo heterotrophic hydrogen production; 3. Devices for monitoring and control; 4. Equipment for optimal gas cleaning.	http://www.biohydrogen.nl/hyvolution



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Oilmill Bruck - biofuel production		Austria	Bruck an der Leitha	In operation, ongoing	At present, the Oil Mill in Bruck processes rapeseed and sunflower seeds. The annual seed processing capacity is approximately 275.000 tons. There is one seed processing line available, on which the rapeseed and the sunflower seeds are processed alternately. The refinery has a capacity of approximately 100.000 tons per year. The biodiesel plant has an annual capacity of approximately 25.000 tons.	www.bunge.at
Oilprodiesel		Portugal	Oeiras	In operation, ongoing	Develop an integrated system for the collection and reuse of used frying oils (UFO) to produce Biodiesel for use in the municipal vehicles fleet from Oeiras. The collection will consider different activity sectors (restaurants, schools and domestic sector), providing technical information about the potential recovery and applications of UFO to produce Biodiesel.	www.oilprodiesel.com
Ökobilanz von Energieprodukten		Switzerland	Berne	Completed, stopped, closed-down	The environmental impacts of different types of biofuels used in Switzerland have been compared in a detailed life cycle assessment. A follow-up study investigated also biomass-to-liquid or synthetic fuels. The study of this project is now published on the homepage of the Swiss authority of energy. This study forms an important scientific input for the political decision on tax regulations for biofuels. Within the project "Ökobilanz von Energieprodukten" several bioenergy products are analysed and investigated in an LCA. The project is split into three parts. The first part investigated basic life cycle inventory data for Swiss bioenergy products. An additional project aims to investigate basic data for imported biofuels. In the last step the data are assessed in an LCA. The full project is lead by ESU-services Ltd.	www.esu-services.ch/bioenergy.htm
Orléans Val de Loire - Partenaire Diester		France	Orléans	In operation, ongoing	In May 2003, the conurbation Orléans Val de Loire decided to use biodiesel for the city bus fleet in order to reduce emissions and to improve air quality.	www.agglo-orleans.fr , www.semtao.fr
Overcoming non-technological barriers for full scale use of biodiesel in Europe	PRO-BIODIESEL	Spain	Navarra	In operation, ongoing	The general objective is to promote Biodiesel as a competitive and commercial product in the European fuel market, using the broadest range of raw materials both from North and South-Europe and considering all the agents involved. One of the outcomes is to successfully put in the market 35,000 t/year of biodiesel, which increases 2.3% biodiesel production of EU-25 in 2003. This objective can be translated into more specific objectives: Characterizing pure biodiesel from at least 8 different raw materials; Monitoring and proposing improvements to the EU regulations and European standards; Assessing the specific barriers of the logistic and distribution sector; Relieving the vehicle and market barriers; Undertaking a broad dissemination programme.	www.probiodiesel.com
Partenaire Diester		France	-	In operation, ongoing	"Partenaire diester" is an association of commercial and municipal companies using the biodiesel "diester 30%" produced by diester industries in their vehicles. The item "diester" is formed from the French words "diesel" end "ester" and is a trade name for biodiesel produced by diester industries.	www.partenaires-diester.fr



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Pomeranian Bioethanol project	BIOETOH STGD	Poland	Starogard Gdanski	Under development	Feasibility and Concept study on going	
Pre-normative work for the use of solid biofuels	BIONORM	Germany	Leipzig	In operation, ongoing	The objective of the BioNorm project is it to provide the scientific background, as well as the necessary data, for the ongoing European standardisation process in the field of solid biofuels. This includes the development of a fuel quality assurance (QA) system for solid biofuels. This QA-system is based on ISO 9000 and its development is supported by extensive work on sampling and testing of physical-mechanical fuel characteristics, as well as chemical fuel properties, to provide reliable procedures. The work is closely linked to the efforts of the CEN Technical Committee (TC) 335 "Solid Biofuels". Additionally partners from the New Accession States (NAS) serve as an interface to give the NAS the chance to participate in the development of European standards.	
Procura -Supporting the switch to alternative fuel vehicles		Netherlands	Utrecht	In operation, ongoing	Switching from fossil to alternative fuels means in many cases switching vehicles. The Procura project supports this process by developing joint procurement models, fleet scan tools and manuals for private and public fleet operators. Recent additions to the Procura website include: a manual for infrastructure development; training guidelines for the maintenance and support of alternative fuel vehicles; a user manual for fleet owners on alternative fuel vehicles. Initial results and conclusions from Procura were also discussed in the context of transport policymaking in the EU, notably during a seminar for EU officials organised in Brussels in April 2007.	www.procura-fleets.eu/
Production of rape seed and use of biodiesel in the Application Centre for Renewable RESources	ACRRES	Netherlands	Lelystad	In operation, ongoing	Rape seed production and use of biodiesel in tractors within the Application Centre for Renewable RESources (ACRRES), lead by Applied Plant Research and the Animal Sciences Group.	www.acrres.nl
Promoting favourable conditions to establish biodiesel market actions	Biodiesel Chains	Greece	Athens	Completed, stopped, closed-down	The overall goal of this project is to understand & promote favourable conditions for the establishment of biodiesel market chains in selected countries which have had limited developments to date. This proposed work will focus on countries - Greece, Belgium, Poland, Cyprus, Romania & Bulgaria - that are making limited progress in creating markets to achieve European liquid biofuel policies & targets compared to leading member states such as France, Austria & Germany. There will be six core WPs: biodiesel market status; emerging best practice; market structures; strategy formation; mobilize actors; dissemination.	
Promoting sustainable energetic pathways for bus fleets.	STAR BUS	France	Valbonne	In operation, ongoing	Urban buses reduce individual transport, reinforce attractiveness for public transport and enhance city's image. However, choosing between all energetic pathways like Biofuels, NGV, LPG or Diesel, with their specific advantages (pollutions, GHG, noise) and their inconveniences (costs, practise & expertise changes), presents barriers to	www.starbus-project.eu/



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					decision makers. The project aims at overcoming these barriers and promoting renewable energy sources by proposing an integrated tool that will valorise pollutants emissions in economics terms, add the "classical" economic costs, and will unit all relevant criteria in one easy-to-use tool adapted to local conditions.	
Public transport buses on PPO in the region of Eindhoven	PPO - Eindhoven	Netherlands	Eindhoven	In operation, ongoing	Bus transport company BBA has started a trial project with two local buses running on PPO. The buses are used on all BBA routes in the Eindhoven region. BBA has installed a special fuel tank for this project at the bus depot in Reusel.	www.bba.nl
Pure Plant Oil Use in Cork City Council Municipal Fleet		Ireland	Cork	In operation, ongoing	Through the EU funded CIVITAS Miracles Project, Cork City Council established a pilot project to investigate the use of biofuels in their municipal fleet. Various options for converting between 5 - 10% of the fleet were considered. Pure plant oil (PPO) was chosen, and in May 2003 Council employees were provided training by ELSBETT to convert 16 vehicles of the City Council fleet. These vehicles are still running and there are plans to convert further vehicles. The project also provided the PPO supplier with its first major contract, helping to establish the business.	www.eltis.org/study_sheet.phtml?study_id=1171&lang1=en
Pyrolysis Oil Toxicity Assessment for Safe Handling and Transport	BIOTOX	France	Montpellier	Completed, stopped, closed-down	The aims of this project were: to determine toxicological and eco-toxicological data on bio-oils. The work will concern both acute and chronic effects on human health, carcinogenic and mutagenic effects. The environmental impacts of bio-oils liquids will also be measured in water and soil; to determine the best operating conditions to avoid or minimise the formation of toxic products from the composition of the bio-oils; to produce fast pyrolysis bio-oils with low impact on human health and environment by optimising the production process of bio-oils related to toxicity characteristics; to encourage the active involvement of industry in the development and exploitation of the results through an existing network; to disseminate information on this activity from the database and results of meetings by newsletters, reports, conferences, specific workshops, web site and other publications.	
Quimper - Partenaire Diester		France	Quimper	In operation, ongoing	For a sustainable development of the urban agglomeration the municipality has chosen biofuels for the city bus fleet. Some of them work with pure biogas and the others work with biodiesel diester (30%).	www.mairie-quimper.fr
RATP - Partenaire Diester		France	Paris Cedex 12	In operation, ongoing	The RATP is the public transport company of the Île de France. 70 city busses work with biodiesel diester (30%) to reduce emissions and energy demand.	www.ratp.fr
Refuel project	REFUEL	Netherlands	Petten	Completed, stopped, closed-down	The refuel project is designed to encourage a greater market penetration of biofuels. To help achieve this goal, we will develop a biofuels road map, consistent with EU biofuel policies and supported by stakeholders involved in the biofuels field.	www.refuel.eu
Renewable fuels for advanced powertrains	RENEW	Germany	Wolfsburg	In operation, ongoing	This project aims to develop and assess production chains from lignocelluloses biomass to synthesis gas from which various vehicle fuels can be derived. Processing technologies will be developed to produce cost effective premium fuels from a range of feedstock. Within 4 vertical subprojects, alternative thermo-chemical gasification,	www.renew-fuel.com



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					enzymatic fuel production and fuel synthesis processes will be considered, while 2 horizontal subprojects are directed towards technology assessment and training. The project aims for the introduction of favourably priced bio-fuels, from 2010 onwards. In addition to scientific and technological results, RENEW aims to develop commonly agreed strategic recommendations on the technological and market potential of different bio-fuels and their production technologies. RENEW offers major Kyoto Protocol benefits, enhances the sustainability and security of vehicle fuel supply, and has positive regional socio-economic impacts. RENEW involves 31 partners.	
Renewbility		Germany	Darmstadt	In operation, ongoing	The research project renewbility - Material Flow Analysis for Sustainable Mobility in the Context of Renewable Energy until 2030 - financially supported by the Bundesumweltministerium (Ministry of environment) -is developing an instrument of analysis that researches potentials and restraints/barriers regarding sustainable mobility shows the interdependencies with subsidies for renewable energies and is used in close cooperation with players. In the project, the material flow analysis will be used to determine and qualify the economical and ecological effects on various scenarios of mobility. It describes the process of the life cycle of demand, including the expenses for production and distribution, and use of resources. It also determines the effects on employment. The project is handled by Öko-Institut (project management) and DLR - Institute of transport research.	www.renewbility.de
Retrofit Diesel Engine to Burn Multifuels Optimizing CO2 Balance, Emissions, Power Output and Mileage	Multifuel Engine Retrofit	Spain	Avilés	Under development	It is the goal of this project to convert a diesel engine into a multifuel engine that can burn several types of fuels such as used vegetable oil, biodiesel, diesel, hydrogen, and/or biogas at the same time, or independently. The final goal of this project would be to use renewable or alternative energy sources to fuel the engine, while optimizing the power output, gas mileage, CO2 balance and emissions. A pilot unit would be developed for data collection.	
Rosendaal Energy Sluiskil		Netherlands	Terneuzen	Under development	Rosendaal Energy will build a biodiesel plant at Sluiskil, The Netherlands for production of 250.000 tons biodiesel. Raw materials for this plant are crude and refined vegetable oils and fats. Supply will be primarily by barge and seagoing vessel. The plant will not produce waste streams.	www.rosendaal-energy.nl
Rouen - Partenaire Diester		France	Rouen	In operation, ongoing	After the modernisation of the city bus fleet in the agglomeration of Rouen, 40% of the vehicles run with biodiesel diester. 106 new busses have been bought and a new rule says, that vehicles of the fleet must not be older than 4 years.	www.agglo-de-rouen.fr, www.tcar.fr
Rueil-Malmaison - Partenaire Diester		France	Rueil-Malmaison	In operation, ongoing	In the French municipality Rueil-Malmaison inhabitants, companies and associations decided to enforce initiatives for sustainable development. A municipal biodiesel fuelling station was built in 2004. 11 vehicles of the municipal fleet are run by pure vegetable oil, the other vehicles are run by diester 30%	www.mairie-rueilmalmaison.fr



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Saint Louis Sucre - Biofuel production		France	Paris	In operation, ongoing	Saint Louis Sucre is a private company producing bioethanol from beets and wheat.	www.saintlouis-sucres.com
Scandinavian Hydrogen Highway Partnership		Sweden	Göteborg	In operation, ongoing	Making the Scandinavian region one of the first regions in Europe where hydrogen is available and used in a network of refuelling stations.	www.scandinavianhydrogen.org
SEEG Mureck - biofuel production		Austria	Mureck	In operation, ongoing	The South Styrian Energy and Protein Fabrication Cooperative Society (SEEG reg.Gen.m.b.H.) is a agricultural company, that is producing biodiesel from rape seeds, used cooking oil and adipose (animal fat). The SEEG is owned by 600 members of the co-operative.	www.seeg.at
Seine-et-Marne - Partenaire Diester		France	Melun	In operation, ongoing	In 2006 the municipal council of the département Seine-et-Marne decided to start a biodiesel experiment with 22 vehicles on 7 routes of the city bus fleet. After the trial period of 12 months the biodiesel-project will be extended on more vehicles.	www.seine-et-marne.fr
SEKAB E-diesel	BEST - SEKAB	Sweden	Örnsköldsvik	Start-up (operation in test phase)	SEKAB will perform demonstration tests on a low blend diesel fuel. The fuel is a blend of 10 % ethanol derivative and standard diesel. Both diesel cars, buses and trucks will be included in the test fleet. The BEST activities also include setting up a production plant for the ethanol derivative.	www.best-europe.org
Shamash		France	Le Chesnay	In operation, ongoing	A French scientific research project coordinated by the INRIA Sophia Antipolis , which started in 2006. The objective is to produce biofuels in the form of methyl ester from micro algae, which can accumulate up to 50% their weight in fat acids. Shamash brings together 8 French Teams and enterprises - experts in micro algae culture and use, in biotechnology process modelling, in liquid purification and in biofuels- for an overall budget of 2.8 Million euros.	www-sop.inria.fr/comore/shamash/
SITA France - Partenaire Diester		France	Nanterre Cedex	In operation, ongoing	SITA collects, transports and treats municipal, industrial and commercial waste, common and hazardous waste. The compostable waste is fermented to biogas. The company transport fleet is run by biodiesel diester (30%).	www.sita.fr
Site de l'Ain		France	Ain	In operation, ongoing	The project is initiated by Cuma de Cormoz. Within this project 4 agriculturists are activated for the acquisition of a tight installed oil press with a capacity of 90 000 litres of vegetable oil. The press cakes are partially used as fodder and partially for commercial matters. The vegetable oil is also partly used by the farmers themselves as fuel for the farm machines, partly for the municipal fleet of Lyon and other parts of the product are sold to local authorities. In the Start-Up phase 4 tractors are run by a kit of bicarburation.	http://fdcuma01.club.fr/index.htm
Site Drôme		France	Valence	Under development	Cuma installed an oil press with a production capacity of 200 000 litres of plant oil at a feedstock storage cooperation (Coopérative Drômoise des Céréales). The press cake is distributed to milk goats and chicken farms in the region. The produced plant oil is partially used for the farm machines and partially sold to local authorities in the region for their municipal fleets. In the Start-Up phase 9 heavy duty vehicles, 2 combine harvesters and 3 tractors will be provided with a kit of bicarburation.	www.cuma.fr



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Site Isère		France	Grenoble	In operation, ongoing	The production plant "Site isère" is the pioneer project of Cuma since 1995. In 2006 a new oil press has been installed by Cuma AgriEnergie with the aim to provide farm machines with biofuels (pure plant oil) from Cuma. In the Start-Up phase the production capacity was 30 000 litres.	www.cuma.fr
Site Loire		France		In operation, ongoing	The project is initiated by Cuma Ouest. Within the project fifty farmers are activated for the acquisition of a tight installed oil press with a capacity of 150 000 litres of vegetable oil. The press cake is used by the farmers to feed the cattle. The produced vegetable oil is also partly used by the farmers themselves to run their farm machines, the other part is used for commercial matters by an economic syndicate (GIE). In the Start-Up period 5 tractors are run by a kit of bicarburation and 2 tractors are provided with pure vegetable oil.	www.ouest.cuma.fr
Small Urban Communities in CIVITAS for Environmentally Sustainable Solutions, Preston	SUCCESS Preston	United Kingdom	Preston	In operation, ongoing	In Preston, the overall County target is to restrict traffic growth to 5%. Through the CIVITAS initiative, the partners aim to achieve a 5% reduction in car usage and an increase of 25% in bus and non-motorised transport. From the energetic and environmental impact point of view, the targets are a reduction of 20% in the use of fossil fuels in vehicle fleets affected; decrease of 10% in the energy consumption and CO2 emissions; and decrease of 10% in the nitrogen dioxide emissions. The key features of the demonstration project are as follows: Clean and energy efficient vehicles: the introduction of 7 hybrid buses using biofuel	www.civitas-success.org/e_cities_02.htm
Smaller Urban Communities in CIVITAS for Environmentally Sustainable Solutions, La Rochelle	SUCCESS La Rochelle	France	La Rochelle Cedex 02	In operation, ongoing	The Urban Community of La Rochelle has been involved for several years in improving urban transport and more specifically in introducing clean vehicles, developing new concepts for sharing vehicles, bicycles, in implementing Park + Ride, and even starting the "day without cars". Clean transport is not the only environmentally friendly improvement introduced in the town. Other projects have already been started to make the city one of the best in the country for environment issues. The key features of the demonstration project are as follows: - Clean and energy efficient vehicles: CdA LR will rent 2 hybrid buses during the project, 6 hybrid taxis, 2 hybrid vehicles for disabled people, and around 20 local authorities vehicles, a diester fuelling station, and cooking oil recycling.	www.civitas-success.org/e_cities_01.htm
Société Triballat-Noyal - Partenaire Diester		France	Noyal-sur-Vlaine	In operation, ongoing	Triballat-Noyal is a food manufacturer, using diester 30% as fuel for the transport vehicles.	www.vrai.fr
Solaroilsystems	SOS	Netherlands	Boijl	In operation, ongoing	Since 2003 , 9 trucks of Mc.Donalds-Netherlands in combination with SITA-Netherlands are running on PPO. All trucks are converted by Solaroilsystems to PPO , who also supplies the PPO acc. to standard DIN 51605. Some of the first converted trucks passed the 700.000 km barrier without a problem. The main objective for MCD/SITA to change to PPO were the environmental aspects of PPO.	www.solaroilsystems.nl



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Solutions for the safe application of wastewater and sludge for high efficient biomass production in Short-Rotation-Plantations	BIOPROS	Belgium	Brussels	In operation, ongoing	The aim of the BIOPROS-project is to gain knowledge about the economic, ecological and technical feasibility of Short Rotation Plantations (SRPs) for different local conditions and market requirements and to transfer it to their Small and Medium Enterprises (SME) members (farmers, biomass processors, engineers, decisions makers). This will contribute to promote SRP biomass production between SMEs throughout Europe and abroad. Main focus will lay on the safe and efficient application of wastewater and sludge to guarantee high yields and sufficient treatment performance without any negative environmental or hygienic impacts. Lack of knowledge about the high SRP potential and prejudices against the application of human wastes shall be minimised during the project as well as barriers against the application of SRP-biomass. For this reason a wide range of aspects will be subject of research including SRPs' best practice and costs as well as related legislation and standards.	www.biopros.info
Stability of biodiesel	BIOSTAB	Austria	Wieselburg	Completed, stopped, closed-down	Biodiesel is a fast growing renewable liquid biofuel within the EC. Standardisation and quality assurance are key factors for the market introduction and customer acceptance of biodiesel. Minimum requirements and test methods are included in the European standards for biodiesel, EN 14214 and EN 14213. However, the standardisation process additionally identified fuel stability as a key parameter. In 2001 the EU funded project 'Stability of Biodiesel' (BIOSTAB) started, involving nine experienced European partners from industry, science and research. The objectives of the project were to establish criteria and the corresponding analytical methods to determine the stability of biodiesel and to: 1. find appropriate methods for the determination of stability under realistic conditions; 2. understand the influence of storage conditions on the quality of biodiesel; 3. define a minimum level of natural and/or synthetic antioxidants; 4. determine the effects of the fuel stability during use.	
STGA - Partenaire Diester		France	Angoulême	In operation, ongoing	The STGA is the public transport company of the municipality Grand Angoulême. They have 77 standard busses, 6 articulated busses and 12 mini busses. All busses go with biodiesel diester 30%.	www.stga.fr
Stockholm E95 buses	BEST - Stockholm buses	Sweden	Stockholm	In operation, ongoing	Activities in BEST include: purchase of 127 additional ethanol buses and 5 fueling stations for E95.	www.best-europe.org
Stockholm FFVs	BEST - Stockholm	Sweden	Stockholm	In operation, ongoing	Activities in BEST at Environment and Health Administration includes: introducing 250 ethanol cars in the municipal fleet, informing about bioethanol and bioethanol, training of fueling station staff, investigating safety aspects and recommendations about storing and dispensing bioethanol for fueling purposes. A study of existing national and local incentives will also be performed.	www.best-europe.org



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Strengthening the knowledge of local management agencies in the transport field	COMPETENCE	Austria	Graz	Completed, stopped, closed-down	COMPETENCE - Strengthening the knowledge of local management agencies in the transport field is a 30-months project co-financed by the European Commission within STEER within the framework of the Intelligent Energy - Europe Programme EIE. The main activities in COMPETENCE are the design and implementation of international and national training and know how transfer activities, the design of training materials and the implementation of case studies as part of a training-on-the-job-program. The beneficiaries of the project are mainly local and regional energy agencies but also other organisations like environmental agencies, health bureaus etc. interested in enhancing their knowledge and skill base in the topic of urban transport. The COMPETENCE project consortium involves the active participation of 15 countries in Europe.	www.transportlearning.net
Support and Development of Renewable Sources of Energy in Ukraine	ESCOB	Greece	Athens	In operation, ongoing	The overall objective is to promote the biofuel economy in the Ukraine and strengthen local participation in biomass development. This will be done by establishing a Biomass ESCO (Energy Supply Company). The consultant will: Establish 2 demonstration projects (in cooperation with SCEC); Provide a basis for establishing and operating the ESCO model (commercial, financial, legal); Investigate financing sources; Conduct a market survey to get overview and understanding of the existing biomass potential and define the technologies, techniques, and fuels with the highest market potential; Support the development of commercial entities by undertaking business analyses; develop strategies and overcoming barriers for market penetration; Develop a software package to monitor the biomass market; Carry out an integrated dissemination campaign; Determine the CO2 mitigation potential of the biomass fuel economy as an alternative potential source of income for the Biomass ESCO.	www.escob.com
Support for clean fuels and introduction of clean public and private fleets in Burgos	CIVITAS - CARAVEL - Burgos	Spain	Burgos	In operation, ongoing	A comprehensive strategy on the use of biofuels and CNG will be implemented in Burgos. Their use in municipal transport fleets will be researched and developed and their use in private and public vehicles widely promoted. Further additions of new custom-built vehicles running on cleaner fuels will be made to the municipal fleet.	www.civitas-initiative.org/measure_sheet.phtml?lan=en&id=188
Sustainability in the Public urban Transport Market	SIPTRAM	Germany	Freiburg	Completed, stopped, closed-down	The SIPTRAM project aims to encourage local and regional authorities across Europe to improve the environmental and quality standards in urban public transport through the competitive tendering process	www.increase-public-transport.net/
Sustainable Community through the Production of 30.000 Tm/year of Bio-Diesel Starting from Sunflower, Rapeseed and Palm Biomass	BIODINA	Spain	PAMPLONA	Completed, stopped, closed-down	The objective of the project is to demonstrate and widely disseminate the benefits of changing the agrarian practices of the Navarra community from cereal food crops to oleaginous energy crops in order to approach a sustainable community in diesel consumption, through the local production of biodiesel at a large scale. The specific objectives of the project are: To produce 35,000 Tm/year of sunflower, rape and palm biodiesel, (11% of the community consumption); To create 25 direct and 100 indirect jobs related to the biodiesel plant; To involve between 300 and 400 farmers from the community in the development and supply of oleaginous biomass, which implies a	



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					change of mentality from traditional food crops to the new idea of energy crops; To contribute to European security of supply. The use of local production of 35,000 Tm/year of biodiesel will avoid an annual import of 36,900 tonnes of oil derivatives.	
Sustainable Green Fleets	SUGRE	Austria	Graz	In operation, ongoing	The main objective of SUGRE (Sustainable Green Fleets) is to promote and support the conversion of fleets to alternative propulsion (ranging from biofuels, methane as fuel to hybrid systems comprised of combustion engines and electric propulsion systems) and the energy efficient usage of them. SUGRE will foster a positive attitude towards alternative fuels using captive fleets as forerunners and proof for the viability of alternative propulsion. Site co-ordinators will organise the validation of the training/briefing materials, support the training/briefing and organise site visits for other fleet owners. We assume that two-way communication with fleet owners will greatly improve the efficacy of dissemination. A knowledge hub, implemented as an internet based communication and information platform, tools supporting the procurement and localisation of refuelling sites, and a support desk will be implemented.	www.sugre.info
Svensk Biogas Linköping		Sweden	Linköping	In operation, ongoing	As pioneers in biogas driving, the city of Linköping decided to initiate a pilot project including 5 biogas buses that was operated and evaluated during a couple of years.	
System for biodiesel production		Poland	Chudopczyce	In operation, ongoing	Biodiesel production system for own consumption.	
Techno-economical assessment of the production and use of biofuels for heating and cooling applications in South Europe.	BIO-SOUTH	Spain	Navarra	Completed, stopped, closed-down	The project intend to carry out a techno-economical assessment of the whole biofuel utilization cycle, from collection to heat production, in two pilot regions of southern Europe with an important potential for solid biofuels (Navarra in Spain and Tuscany in Italy), in order to identify the barriers for bio-heat development and to propose efficient measures to overcome them by using and adapting the experiences of countries where biofuels have reached a significant market share.	www.bio-south.com/
Technological Improvement for Ethanol Production from Lignocellulose	TIME	Finland	Espoo	Completed, stopped, closed-down	The general aim of the project is to improve the technology and it is expected that this will reduce the cost of producing ethanol by 10-20% in the medium to long term. The technological objective is to improve the design and performance of the key steps in the lignocellulose-to-ethanol process, which contribute to the overall system efficiency and cost effectiveness; pre-treatment, enzyme development and increased process integration. This project is aimed at innovations based on new biotechnical process methods, with positive outlooks in terms of technical and economical developments. The techno economical evaluation of the proposed process aims at ascertaining production costs and the use of energy, and assessing the environmental impact by the use of Life Cycle Analyses.	
Teréos - Biofuel production		France	Lille	In operation, ongoing	Teréos produces bioethanol made from beets and wheat in France, and bioethanol made from sugar cane in Brazil.	www.tereos.com



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
TEXROD - Partenaire Diester		France	Bourges	In operation, ongoing	TP MAT, member of the company TEXROD and specialist for transport and trade of building materials and construction vehicles, uses biodiesel for its transport fleet.	www.texrod.fr
The 35-tractor project in Austria		Austria	St. Pölten	In operation, ongoing	Use of biofuels in agriculture. Create a biofuels-fleet of 35 tractors in Austria.	http://pflanzenoel.agrarplus.at
The city of Gdynia, Poland uses CNG buses meeting the EEV standard		Poland	Gdynia	In operation, ongoing	The transport authority in Gdynia Poland introduced 5 CNG buses matching the EEV (Enhanced Environmentally Friendly Vehicle) emission standard in September 2007. The current fleet will be extended with another 15 buses (20 in total) until 2010. A fast fuelling station will be build up in the bus depot in 2008.	www.eltis.org/study_sheet.phtml?study_id=1654&lang1=en
Towards Sustainable Mobility for people in urban areas: VISIT 2008.	SMILE - VISIT 2008	Sweden	Malmö	In operation, ongoing	The objectives of VISIT 2008 are: improved urban air quality, create a sustainable, safe and flexible traffic system that improves the quality of life in Malmö and Tallinn. It will cut the current trend of increased use and ownership of cars, promote sustainable alternatives and stimulate efficient and clean city distribution of goods. VISIT 2008 contains 20 demonstration measures, which will directly lower the hazardous emissions from city traffic. In the long run it will create a modal shift towards public transport, cycling and car-sharing. The strategy is to combine a set of measures to develop an intelligent, sustainable and intermodal city traffic that makes it possible to live an active life independently of use and ownership of private cars.	
TPG Post Pakketservice running 56 vehicles in Amsterdam on B100	Biodiesel - TPG	Netherlands	Amsterdam	In operation, ongoing	TPG Post Pakketservice is changing its fleet of 56 delivery vans in Amsterdam to run on 100% biodiesel.	
Trendsetter: biogas bus fleets in Lille	CIVITAS - TRENDSETTER - Lille	France	Lille	In operation, ongoing	thanks to this measure, the city of Lille will have purchased new gas/biogas buses, purchased new CNF and biogas compression stations, and built new bus depots	www.civitas-initiative.org
Use of biodiesel mixtures for public buses in the island of Crete.		Greece	Heraklion	Completed, stopped, closed-down	The Regional Energy Agency of Crete, in the framework of the implementation and promotion of the European Directive for Biofuels, has implemented, according to a working programme of many months for testing and evaluation in real conditions, a pilot use of high biodiesel mixtures into the public transport buses in the Eastern Crete. This project has been realised in cooperation with the Public Bus Company of Eastern Crete, the Public Centre of Vehicles Control of Heraklion and the scientific support of National Technical University, with simultaneous provision of information for biodiesel use to all relevant national, regional and local authorities. In this innovative project biodiesel mixtures of much higher concentrations (e.g. 20%) than the ones legislated, have been tested, taking into account the experience and the know-how of European Organisations, which are using biodiesel mixtures of 100% in public transport.	www.crete-region.gr/greek/energy/



Projects and activities listed alphabetically

Title of project / activity	Acronym	Location		Status	Abstract	Website
		Country	City			
Use sustainable fuels in vulnerable areas		Netherlands	Leeuwarden	In operation, ongoing	The province of Fryslân is currently implementing a project entitled "Use sustainable fuels in vulnerable areas". On water, this means using biodiesel/PPO in boat engines. In rural and agricultural areas this means using biodiesel in maintenance machines, terrain vehicles and tractors. The objectives of this trial project are to gain experience in the use of biofuels, as well as to create sufficient support levels for using biofuels as an attractive environment-friendly alternative. The province of Fryslân has 14 inspection boats that run on biodiesel, and 1 Elsbett generator that runs on PPO. Hire company Holiday Boatin, in Sneek, has 21 boats running on biodiesel. The State Forestry Commission uses biodiesel and biolubricants in machines and terrain vehicles. Biological agricultural company "Gerbranda state" uses biodiesel in its tractors. The biofuel comes from Wiersma & Zn, fuel suppliers in Sneek.	http://www.fryslan.nl
Vals Aunis - Partenaire Diester		France	Surgères	In operation, ongoing	Vals Aunis is a municipality with 130 000 inhabitants, where biofuels are used to reduce gas emissions and improve air quality. One example is, that the waste collection fleet is run by biodiesel.	www.vals-aunis.com
Verbio BioEnergy AG	VERBIO AG	Germany	Leipzig	In operation, ongoing	The Verbio AG is producing bioethanol and biodiesel. The nominal capacity per year is 400.000 tons of biodiesel and 300.000 tons bioethanol per year. While the Verbio AG has been founded in 2006, the first production plant of biodiesel of its precursor has been built in 2001 and the first production site for bioethanol in 2005.	www.verbio.de
Ville de Vitrolles - Partenaire Diester		France	Vitrolles	In operation, ongoing	The whole municipal diesel fleet works with biodiesel diester 30%. This includes vehicles for public service and public transport.	www.vitrolles13.fr
Voice		Italy	Florence		The action aims at generating a significant reduction of GHG and other gaseous emissions in decentralised energy generation and transport.	
Waste processing company ACV driving on PPO and biodiesel in Ede and Wageningen	PPO - ACV	Netherlands	Ede	In operation, ongoing	Since February 2006 the waste processing company Afvalcombinatie de Vallei (ACV) has started a trial with driving on PPO (Pure Plant Oil) and bio diesel. Two waste collection trucks are running now on PPO (rapeseed oil) and two trucks on bio diesel.	
Web-based Biofuel Marketplace for supporting the E-Commerce of biofuel products and technologies	Biofuel Marketplace	Hungary	Budapest	In operation, ongoing	The Biofuel Marketplace project will be set up to act as an interactive web-based forum where Europe's biofuel actors can promote their technologies, exchange ideas, sell and buy biofuel products, disseminate results of national, international and European research activities and raise awareness of the public and the professional community. The foundations of the Marketplace will be established by a series of assessment work carried out at European level establishing the background for the market-based management of alternative motor fuels, resulting in a robust and cost effective solution for reducing European dependency on conventional fuels.	www.biofuelmarketplace.com
Website www.bioethanolcarburant.com		France		In operation, ongoing	The website is a French platform of the three partners France Betteraves, Passion Céréales and SNPAA (Syndicat National des Producteurs d'Alcool Agricole). The website intends to be an external marketing agency. It informs about bioethanol in	www.bioethanolcarburant.com

**Projects and activities listed alphabetically**

Title of project / activity	Acronym	Location Country City		Status	Abstract	Website
					general, the feedstock that is needed, the production process, news in the media, the current prices and where it is obtainable in France.	
Wood based Biofuel		Norway	Trondheim	In operation, ongoing	PFI is developing technology for cost effective production of wood based fuel components for the transportation sector. Today, the technology for producing fuel-ethanol from lignocellulose is known. This process is, however, currently limited by high cost, low efficiency and low yield. Furthermore, in this process approx. 30 percent of the wood raw material, remain untapped. PFI's biofuel research is focused on producing value-added fuel components and other products from wood lignin and extractives in a bi-refinery concept where all wood components contribute to the economy of the overall process. Overall objective: Establish the knowledge platform needed to develop an industrial process for efficient conversion of Scandinavian wood into fuel components.	http://www.pfi.no/biofuel.htm
Worldbioplants.com	Worldbioplants.com	Netherlands	The Hague	Start-up (operation in test phase)	Worldbioplants.com is a new website that is set up to collect all biofuel plants in the world. All biofuel plants are strongly advised to enter their plant into our database: together we build the largest database worldwide! This service is free and at the moment the easiest way to find a bio plant around the world. 53 countries and an investment of over 3.700 billion \$ are already included. This means more than 900 plants and almost 160.000 billion litres of bio-ethanol and biodiesel. Feel free to browse the site, you are more than welcome!	www.worldbioplants.com
ZPE Goswinowice		Poland	Glebinów	Under development	Plant for bioethanol production, based on Katzen International technology.	



7. Glossary

Biofuel industry

Industry converting feedstock material into biofuels (like converting wheat to bio-ethanol or rape seed into biodiesel)

End use of biofuels

Use of the biofuel in transport (cars, trucks, buses) either as a blend with fossil fuels or as a pure biofuel

Feedstock

Raw material for biofuel production, like rape seed, wheat, maize, and wood

Joint procurement

Activities to commonly acquire goods, works or services in order to have a larger influence on the quality of the product or its production process and environmental impacts.

NGO

Non-Governmental Organisation

Oil industry

Industry converting crude oil into fossil transport fuels like petrol and gasoline

Projects and activities

Within the scope of this project these are always about biofuels for transport.

Projects (R&D, pilot, demonstration, building of commercial installations, but also training, standardisation, etc.) have a clear start and end date, whereas activities do not have a clear end date and, for instance, refer to a physical installation (biofuel production, -storage or -distribution) or to a network or platform (such as the European Technology Platform for Biofuels or the website worldbioplans.com).

R&D

Research and demonstration



The Biofuel Cities European Partnership is a forum for the application of biofuels. Open to all stakeholders in the area of biofuels for vehicles, it offers:

- www.biofuel-cities.eu - your one-stop shop for information on biofuels application;
- online facilities, workshops and study tours to exchange and network with your peers and learn from experts;
- news, publications and tools to provide information, guidance and support.

European Partnership participants have full access to all features. Participation is free

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