



Intelligent Energy  **Europe**

D3.2 Integrated toolbox for fleet operators

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1 INTRODUCTION

The objective of the FLEAT toolbox is to gather tools and information for fleet operators to support them in the implementation of actions to improve the energy efficiency of their fleet. The objective of the FLEAT toolbox was not to invent new tools because a lot of existing tools are available already. The toolbox aims to be a webportal for fleet operators which offers them qualitative information on how to implement actions on clean vehicles and fuels; energy efficient driving behaviour and mobility management.

This report describes the toolbox which is made available through the FLEAT website www.fleat-eu.org

2 DESIGN WEBSITE

The toolbox is accessible from a link on the FLEAT homepage. The first page of the toolbox will show a menu in a small frame of the page, either at the top of the page or along the side of the page, listing the following options that can be clicked:

- toolbox start (toolbox home page)
- alternative fuels and vehicles
- fuel efficient driving style
- mobility management

By clicking one of the links above, a second (sub)menu will give the user two options for each of the 4 options stated above:

- manuals
- tools

Examples of other toolboxes on the web are:

1. <http://www.optimum2.org/cookbook/> with the menu at the top of the page
2. <http://www.magwien.gv.at/ma22/oekobusiness/frame/datenbank.html> with drop-down menus for the user to make a choice.

The contents of the pages linked to the menu options above, are described in the paragraphs below.

Wherever manuals or tools are listed, the list should first present the manuals and tools available in English (and also possibly other languages), language-specific non-English tools should be presented at the bottom of the list. It won't be necessary to adjust the list according to the language chosen on the website, because the list of language-specific tools and manuals is not very long.

The list with manuals and tools can be created on the basis of a database. This database should contain the links to all manuals and tools of the FLEAT toolbox, information on this manual or tool (the text that will be displayed in the list describing the tool or manual), and also fields that indicate to which application this manual or tool is relevant (mob. management, eco-driving, manual or tool, ...). On the basis of the choices made by the user in the menu (alt. fuels and vehicles, eco-driving, mobility management, ...) different manuals and tools will be shown in the list together with their short explanation.

3 DETAILED PAGE CONTENT

3.1 Toolbox Start

Objective:

This page shows a general description of the toolbox.

Content:

Improving the energy efficiency of fleets can be done in many ways.

The FLEAT toolbox provides effective measures and know-how to help fleet owners improve the energy efficiency of their fleet in 3 fields :

- improve energy efficiency and environmental performance of the vehicle fleet
- encourage energy efficient use of vehicles through ecodriving principles
- support energy efficient use of the fleet through mobility management

Today's automotive engineering offers numerous ways of improving energy efficiency and environmental impact of your fleet's vehicles: alternative fuels and vehicles, downsized engines and diesel particulate filters to name a few. Choosing the best vehicle can have a number of benefits:

- a positive effect on the energy consumption costs of your fleet. E.g. integrating downsizing in your car policy will result in lower purchase/lease costs, and will result in lower fuel costs
- a positive effect on the company image by implementing energy efficient and environmental friendly vehicles (e.g. noise reduction of trucks in city centres through the use of CNG or hybrid technology)

Energy efficient use of vehicles is focused mainly on ecodriving principles. These principles apply to both light and heavy duty vehicles. The benefits can be various:

- savings in fuel costs by implementing energy efficient use of vehicles, e.g. up to 10% lower fuel costs through ecodriving;
- savings in maintenance costs of the vehicles
- safety benefits : an energy efficient driving style also has a positive effect on road safety, resulting in lower costs related tot accidents and loss of time
- reduced stress and improved driving comfort

Reducing mobility demand is an important instrument to reduce energy consumption and environmental impact of your fleet. The benefits of implementing mobility management actions include:

- savings in mobility costs by managing your mobility demand, e.g. company travel plans leading to less required parking space and less company travel costs, or optimizing the logistics of your utility fleet.

3.2 Alternative fuels and vehicles

When clicking the link 'alternative fuels and vehicles', a sub-menu will appear that offers two links to click:

- manuals
- tools

Content:

The information in this part of the toolbox assists fleet managers in integrating energy efficient (low carbon) vehicles in their fleets. Please make a choice in the top menu to select 'manuals' or 'tools'.

3.2.1 Alternative fuels and vehicles: manuals

Content:

The following links provide on-line documentation on alternative fuels and vehicles.

1. E-Atomium - <http://www.e-atomium.org>

Training manuals can be downloaded containing information on alternative fuels and vehicles, as well as on Mobility Management, demand management, awareness raising, communication campaigns. Specific link on alternative fuels and vehicles:

http://www.e-atomium.org/IMG/pdf/alternative_fuels_manual.pdf

2. Treatise - <http://www.treatise.eu.com>

The EC-funded TREATISE project ran from January 2005 to June 2007 providing free training in environmental transport for energy, environmental and fleet professionals in Austria, Belgium, Finland, France, Greece, Netherlands, Spain and the UK. TREATISE also produced training manuals on Cleaner Fuels & Vehicles, Ecodriving, and Mobility Management and created a pc-based ecodriving simulator, a green fleet management tool and a CO2 Calculator to encourage people to choose less carbon-intensive modes.

The link to the English version of the manual on alternative fuel and vehicles (manual also available in other languages):

[http://www.treatise.eu.com/UserFiles/TREATISE%20Cleaner%20Fuels%20%20Vehicles,%20July07\(1\).pdf](http://www.treatise.eu.com/UserFiles/TREATISE%20Cleaner%20Fuels%20%20Vehicles,%20July07(1).pdf)

3. PROCURA - <http://www.procura-fleets.eu>

The Procura project, a General Action of the Intelligent Energy for Europe Programme sponsored by the European Union, is developing joint procurement models, fleet scan tools and manuals to facilitate the acquisition and maintenance of AFV vehicles for private and public fleets. Several training manuals are available, the following

specifically for alternative fuels and vehicles:

- training guidelines for maintenance and support of AFVs

<http://www.procura-fleets.eu/.../2.3%20Training%20Guidelines...20Support%20of%20AFVs.pdf>

- User manual for fleet owners concerning AFVs

<http://www.procura-fleets.eu/Documents/2.4%20User%20manual%20for%20fleet%20owners%20concerning%20AFVs.pdf>

4. e-TREAM - <http://etream.team-red.net>

e-TREAM is a STEER project of the Intelligent Energy Europe Programme of the European Commission. e-TREAM offers a programme of education and training, more specifically through the employment of an e-learning platform consisting of several modules. E-learning modules covering a wide range of topics are available at the e-learning platform, on all relevant aspects:

- Fundamentals of transport and energy (introduction)
- Production and utilisation of bio-fuels
- Alternative fuels and vehicles (excluding bio-fuels)
- Driving style and in-car devices
- Mobility management for municipalities
- Mobility management for companies and public authorities
- Mobility management for schools
- Demand management (urban planning and transport, access management, telematics, parking management)
- Mobility marketing (transport information, awareness raising, marketing, participation and change management)

In addition to the training modules, the students will receive comprehensive support from the project consortium of e-TREAM, especially from the knowledge pool of the Expert Board, which is part of the project and consists of more than 20 highly qualified experts from different European countries.

In addition to the Expert Board the students will be supported by a user secretariat, which provides additional information on request.

5. COMPETENCE - <http://www.transportlearning.net>

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. COMPETENCE offers training manuals on:

- Fundamentals on transport & energy
- Vehicle technology & alternative fuels
- Public transport (quality, benchmarking, intermodality)
- Mobility management & Travel Awareness
- Walking and cycling
- Energy Conservation through Urban Design
- Telematics for energy efficient transport
- Pricing and parking space management
- Driving Style and In Car Devices
- EU policies and programmes
- Change management
- Information platforms and websites
- Preparation and submission of proposals
- Citizen participation process

6. SUGRE - <http://www.sugre.info>

SUGRE (Sustainable Green Fleets) is an accompanying measure promoting alternative propulsion and mainly focuses on fleets, but not only with regards to land transport. The main objective is to promote and support the conversion of fleets to alternative propulsion (ranging from bio-fuels, methane as fuel to hybrid systems comprised of combustion engines and electric propulsion systems) and the energy efficient usage of them. Sugre is a knowledge hub, implemented as an internet based communication and information platform, tools supporting the procurement and localisation of refuelling sites (mobile phone based), and a support desk.

7. REFUEL - <http://www.refuel.eu>

The refuel project is designated to encourage a greater market penetration of biofuels. To help achieve this goal, we will develop a biofuels road map, consistent with EU biofuels policies and supported by stakeholder involved in the biofuels field. Starting early 2006, the project involve seven renowned partners and will take 24 months to complete. The actions' project who will undertake will concern on conversion technology, biofuels production chains, biomass feedstock, stakeholders and their motivation, incentives and reduction of the actual market barriers.

8. COMPRO - <http://www.compro-eu.org>

The development of the clean vehicles market is well recognised to be a key factor able to reduce the high level of energy consumption, pollutant emissions and dependence on oil of the transport sector. The current difficulties faced by the clean vehicles market could be solved if a common European market was established. Fragmentation, caused by market and regulation protection, delivers unbalanced commercialisation of products, uneven technical standards across Europe and different definitions. In the absence of European or national legislation, COMPRO aims at contributing to the development of a common European market of clean vehicles, taking action on the demand side in order to homogenize the products technical requirements and creating a buyer consortium of local authorities to pool up together and reach the critical mass needed

to ensure a swift market development. In concrete terms, COMPRO will analyse the conditions for a common procurement of clean collective and public service transport vehicles at European scale and, as a result, will provide for the identification of homogeneous terms and conditions for achieving common standards and sales and significantly reduce the prices of such vehicles in the open market.

9. STARBUS - <http://www.starbus-project.eu>

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, Diesel... with their specific advantages (pollutions, GHG, noise) and their inconveniences (costs, practise & expertise changes), presents barriers to 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.

3.2.2 Alternative fuels and vehicles: tools

Content:

The following links provide on-line documentation on alternative fuels and vehicles.

1. <http://www.spritmonitor.de>

Available in German and English. On-line gas mileage and vehicle's costs calculator with data from registered users, information on real fuel consumption.

2. <http://www.autoverbrauch.at>

On-line database containing official fuel consumption and emissions of all passenger cars, information on alternative vehicles and fuels, ecodriving tips. Only available in German.

3. ECOSCORE - <http://www.ecoscore.be>

Environmental indicator for vehicles, mainly passenger cars; directly usable for fleet owners to screen their fleet on environmental performance; well-to-wheel approach, taking into account climate change, air quality and noise reduction. Available in Dutch and French. Soon also in English.

4. CO₂-FOOTPRINT - www.vito.be/co2-footprint/

This tool enables fleet operators to calculate the impact of their fleet activities, amongst others based on the driven kilometres and the environmental performances of the vehicles. This tool also shows which vehicles are the most polluting and should be replaced first.

5. SUGRE - <http://www.sugre.info>

SUGRE (Sustainable Green Fleets) is an accompanying measure promoting alternative propulsion and mainly focuses on fleets, but not only with regards to land transport. The main objective is to promote and support the conversion of fleets to alternative propulsion (ranging from bio-fuels, methane as fuel to hybrid systems comprised of combustion engines and electric propulsion systems) and the energy efficient usage of them. Sugre is a knowledge hub, implemented as an internet based communication and information platform, tools supporting the procurement and localisation of refuelling sites (mobile phone based), and a support desk.

6. BeTireSmart - <http://www.betiresmart.ca>

"Be Tire Smart - Play Your PART" is a Canadian national public education campaign designed to encourage motorists to adopt good tire maintenance practices.

3.3 Fuel efficient driving style

When clicking the link 'Fuel efficient driving style', a sub-menu will appear that offers two links to click:

- manuals
- tools

Content:

The information in this part of the toolbox assists fleet managers in promoting ecodriving for the drivers in their fleet. Ecodriving reduces fuel consumption and maintenance costs, while enhancing road safety.

3.3.1 Fuel efficient driving style : manuals

Content:

The following links provide on-line documentation on ecodriving.

1. Treatise - <http://www.treatise.eu.com>

The EC-funded TREATISE project ran from January 2005 to June 2007 providing free training in environmental transport for energy, environmental and fleet professionals in Austria, Belgium, Finland, France, Greece, Netherlands, Spain and the UK. TREATISE also produced training manuals on Cleaner Fuels & Vehicles, Ecodriving, and Mobility Management and created a pc-based ecodriving simulator, a green fleet management tool and a CO2 Calculator to encourage people to choose less carbon-intensive modes.

The ecodriving manual can be downloaded from this link:

[http://www.treatise.eu.com/UserFiles/TREATISE%20Ecodriving,%20July07\(1\).pdf](http://www.treatise.eu.com/UserFiles/TREATISE%20Ecodriving,%20July07(1).pdf)

2. e-TREAM - <http://etream.team-red.net>

e-TREAM is a STEER project of the Intelligent Energy Europe Programme of

the European Commission. e-TREAM offers a programme of education and training, more specifically through the employment of an e-learning platform consisting of several modules. E-learning modules covering a wide range of topics are available at the e-learning platform, on all relevant aspects:

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- Alternative fuels and vehicles (excluding bio-fuels)
- Driving style and in-car devices
- Mobility management for municipalities
- Mobility management for companies and public authorities
- Mobility management for schools
- Demand management (urban planning and transport, access management, telematics, parking management)
- Mobility marketing (transport information, awareness raising, marketing, participation and change management)

In addition to the training modules, the students will receive comprehensive support from the project consortium of e-TREAM, especially from the knowledge pool of the Expert Board, which is part of the project and consists of more than 20 highly qualified experts from different European countries.

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3. COMPETENCE - <http://www.transportlearning.net>

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- Fundamentals on transport & energy
- Vehicle technology & alternative fuels
- Public transport (quality, benchmarking, intermodality)
- Mobility management & Travel Awareness
- Walking and cycling
- Energy Conservation through Urban Design
- Telematics for energy efficient transport
- Pricing and parking space management
- Driving Style and In Car Devices
- EU policies and programmes
- Change management
- Information platforms and websites

- Preparation and submission of proposals
- Citizen participation process

4. RECODRIVE - <http://www.recodrive.eu>

RECODRIVE ("Rewarding and Recognition Schemes for Energy Conserving Driving, Vehicle procurement and maintenance") is a project aiming at merging existing ecodriving initiatives with good fleet management and logistics optimisation practice to push fuel saving in fleets beyond 10%. Interest groups and alliances of fleet owners will disseminate the RECODRIVE concept and invite other fleet owners to hand on workshops and symposia to work on sectoral policies e.g. addressing stakeholders. Policy guidelines will be developed in order to support the fleet owners in setting up recognition and rewarding schemes for drivers and managers, procurement and maintenance staff. A multi-lingual knowledge hub, implemented as an internet-based communication and information platform, tools supporting the training of drivers, the procurement of on-board and fuel management devices, dos and don'ts for the set-up of recognition and rewarding schemes and a support desk to help fleet owners will be implemented in the course of the project.

5. http://publikationswebbutik.vv.se/upload/4251/89215_drive_power.pdf

A nice brochure from the Swedish Road Administration (in English) about long-term planning and a long-term approach to maintain the eco-driving habit.

3.3.2 Fuel efficient driving style : tools

Content:

1. VEDETT - <http://fleet-eu.org/downloads/TN-TEM-007-E.pdf>

The VEDETT-system is an integrated and vehicle embedded device for monitoring travel and driving behaviour. The on-board unit logs car parameters generated on the CAN-bus and location data from GPS. These data are internally stored and can be sent to the server by GPRS, through a WLAN or downloaded directly from the memory.

2. On-line driving style test

<http://www.adviesmodule.nl/ask?actor=test-je-rijstijl&role=test>
Only available in Dutch

3. Treatise - <http://www.treatise.eu.com>

The EC-funded TREATISE project ran from January 2005 to June 2007 providing free training in environmental transport for energy, environmental and fleet professionals in Austria, Belgium, Finland, France, Greece, Netherlands, Spain and the UK. TREATISE also produced training manuals on Cleaner Fuels & Vehicles, Ecodriving, and Mobility Management and created a pc-based ecodriving simulator, a green fleet

management tool and a CO2 Calculator to encourage people to choose less carbon-intensive modes.

Their ecodriving virtual trainer CD-ROM can be ordered on through their website (price: 30,00 euros).

3.4 Alternative use of fleets - Mobility Management

When clicking the link 'alternative use of fleets - mobility management', a sub-menu will appear that offers two links to click:

- manuals
- tools

Content:

The information in this part of the toolbox assists fleet managers to implement mobility management actions to reduce fuel consumption and costs for their fleet.

3.4.1 Mobility management : manuals

Content:

The following links provide on-line documentation on mobility management.

1. E-Atomium - <http://www.e-atomium.org>

Training manuals to be downloaded, regarding mobility management, demand management, awareness raising, communication campaigns, and alternative fuels and vehicles.

Manual on Mobility Management:

http://www.e-atomium.org/IMG/pdf/mm_manual.pdf

Manual on Demand Management (in Dutch):

http://www.e-atomium.org/IMG/pdf/demand_management_nederlands.pdf

2. Treatise - <http://www.treatise.eu.com>

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The link to the English version of the manual on mobility management (manual also available in other languages):

[http://www.treatise.eu.com/UserFiles/TREATISE%20-%20Mobility%20Management%20-%20UK%20FINAL%20\(2\).pdf](http://www.treatise.eu.com/UserFiles/TREATISE%20-%20Mobility%20Management%20-%20UK%20FINAL%20(2).pdf)

3. OPTIMUM2 - <http://www.optimum2.org/cookbook>

OPTIMUM² is a European project that has as its primary aim the improvement of the accessibility of busy locations in urban areas. OPTIMUM² involved 10 pilot sites in the UK and the Netherlands, each testing out different mobility management solutions for business or hospital areas. It was a four year project, funded by the EU INTERREG III B programme.

The Optimum2 cookbook on mobility management solution for your company is available through the link <http://www.optimum2.org/cookbook>

4. e-TREAM - <http://etream.team-red.net>

e-TREAM is a STEER project of the Intelligent Energy Europe Programme of the European Commission. e-TREAM offers a programme of education and training, more specifically through the employment of an e-learning platform consisting of several modules. E-learning modules covering a wide range of topics are available at the e-learning platform, on all relevant aspects:

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In addition to the training modules, the students will receive comprehensive support from the project consortium of e-TREAM, especially from the knowledge pool of the Expert Board, which is part of the project and consists of more than 20 highly qualified experts from different European countries.

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- Pricing and parking space management
- Driving Style and In Car Devices
- EU policies and programmes
- Change management
- Information platforms and websites
- Preparation and submission of proposals
- Citizen participation process

6. EPOMM - <http://www.epommweb.org>

EPOMM is the European Platform on Mobility Management, a network of governments in European countries that are engaged in Mobility Management (MM). They are represented by the Ministries that are responsible for MM in their countries. EPOMM is organized as an international non profit organization with seat in Brussels.

The section "Mobility Management for companies" is run by the COMMERCE project, a European project under the STEER programme that started in October 2007. EPOMM is partner of this project. COMMERCE is developing an online community for the discussion of Mobility Plans. The community constitutes the European Platform for Mobility Management for companies. It is open to municipalities and employers from across the EU. A Forum is established as part of the COMMERCE-project. It offers access to a discussion Forum, Downloads and Uploads.

7. COMMERCE - <http://www.commerce-eu.org/>

COMMERCE is a three year project, part of the Intelligent Energy for Europe's (IEE) STEER Programme. Its aim is to increase the number and to improve the quality of mobility plans that are developed by small and medium sized companies by providing tools and standards based on best practices across Europe. Mobility plans are also known as travel plans and their development is a clear way of reducing commuters' CO₂-emissions.

3.4.2 Mobility management : tools

1. <http://www.mobilitymanagement.be/index.htm>

The mobility management toolbox provides a clear and concrete overview of possible MM-measures and costs and benefits. It also contains a decision-supporting system, and shows a direct relation between MM-measures, effects and costs/benefits. This tool is available in English,

Dutch, German, Italian and French.

2. e-TREAM - <http://etream.team-red.net>

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3. FreightBestPractice - <http://www.freightbestpractice.org.uk>

Freight Best Practice offers free essential information for the freight industry covering topics such as saving fuel, developing skills, equipment and systems, operational efficiency and performance management.

4. MAX SUMO - www.max-success.eu

MaxSUMO provides standardized guidance during the planning, implementation and evaluation of a mobility management project. It helps to structure the necessary steps of a project, e.g. setting targets, defining target groups, selecting measures. The unique benefit of MaxSUMO is that the process of behavioral change is divided into smaller steps that can actually be monitored and evaluated successively. Hereby, possible deviations can be corrected at an early stage.

MaxSUMO can be used for single measures, but also for combined measures. In this way, evaluation data can be compiled in a standardized way. As the aim is to disseminate the use of MAXSumo on a European level (and it is already tested in several countries), this will have very positive effects for future work and cost-benefit estimations - see MaxEVA below.

5. MAX EVA - www.max-success.eu

MaxEVA is an interactive web database for evaluation data of mobility management projects. It is based on the type of data which will be generated by using MaxSUMO for evaluation and offers simple tables and boxes to be filled in. Its usage provides guidance regarding the evaluation of Mobility Management interventions.

The idea is that MaxEVA over time will accumulate data from a large number of mobility management interventions, which will constitute a database with reliable information - you will be able to determine what effects to expect from measures. In short term perspective, MaxEVA can be used as a benchmarking tool where similar projects and their achievements can be compared.