



**COACH &  
BUS WEEK  
ESSENTIAL GUIDE**

➤ FUEL & EMISSIONS MANAGEMENT

# Making fuel go further

Talk about emissions and high fuel prices is never far away from the coach & bus industry. This week's Essential Guide looks at a variety of methods to save fuel and clean up emissions, keeping vehicles running as efficiently as possible

**K**eeping fuel costs down and running a greener operation can be done in a variety of ways. Fuel additives can be applied directly to diesel making it burn more cleanly. There are also filters which can be applied to exhaust systems allowing older engines to be competitive with increasing Euro standards. Systems are also available to ensure efficient use of oil, which can result in it needing to be replenished less frequently.

One area often overlooked when thinking about fuel efficiency is the vehicle's driver. Telematics systems can make both the manager and the driver aware of where driving standards can be improved, allowing them to act while simultaneously improving the experience on the passenger.

## ENERGENICS

Envirox use is on the increase following BSOG changes.

Changes in the Bus Service Operators' Grant (BSOG) in April, which effectively raised the net fuel price in England by around 12%, coupled with government plans to potentially remove the grant's link to fuel use completely, are prompting more bus operators to consider Energenics' proven fuel saving additive, Envirox.

While fuel prices have risen, the cost of Envirox has remained stable such that it now adds well below 1% to the fuel cost including additive dosing units. Energenics believes these economics make a compelling financial case when weighed against



Managing fuel properly will result in less expensive trips to the pumps

the proven fuel savings of 4 to 11%. Moreover, the environmental benefits are valued by operators who understand the importance of promoting greener travel.

Respected industry names such as Travel de Courcey, Reading Transport and Chalkwell are currently evaluating Envirox following the example of established customers like East Yorkshire Motor Services, Henderson Travel, Bath and NE Somerset Council and Stagecoach, who are now in their eighth year of using Envirox nationally across the UK. All these operators have installed additive dosing systems, purpose built for treating bulk fuel in depots.

Earlier this year, Reading Transport began a full commercial trial of Envirox across the whole of its fleet of approximately 130 buses based at its main depot in Reading. An additive dosing unit was installed and the bulk diesel fuel storage tanks will be treated

with Envirox for an initial 12-month period. Through the use of Envirox, Reading Transport is targeting an average fuel saving of 4%, which on an annualised basis is equivalent to over 340 tonnes of CO<sub>2</sub>. It will also remove an estimated 48kg of harmful particulate emissions per year from the fleet. CEO of Reading Transport James Freeman commented: "In the present economic climate we continue to strive for cost savings in our operations whilst also improving our environmental performance. Envirox has the potential to address both of the aims without any capital investment."

Energenics Europe Ltd, the producer of Envirox, was originally a nanotechnology spin out from the University of Oxford and is still based at the University's Begbroke Science Park where their scientists continue to develop novel advanced materials. A consortium led by Energenics has been

recently awarded a grant from the government-backed Technology Strategy Board for a project to improve the performance of aerospace coatings using functional nanoparticles.

However the company's main product is the fuel saving additive Envirox which won the prestigious award for Innovation at the Thames Valley Business Awards in 2008. It is based on cerium oxide, a well-known industrial oxidation catalyst widely used in catalytic converters which would not normally be compatible with diesel fuel but using nanotechnology it has been reengineered into a liquid diesel fuel treatment. This ensures a cleaner burn within the combustion chamber - improving fuel efficiency and lowering emissions. It also facilitates the removal of carbon deposits from the engine and particulate filters.

**T: 01865 233010**  
**E: info@energenics.org**  
**W: www.energenics.org**

## TOKHEIM UK LIMITED

"In today's demanding market conditions, every business is looking to consolidate, maximise if possible, and subsequently increase revenue and profit," said Tokheim UK Limited's National Key Accounts Manager (Fleet & Commercial) Lee Slater.

"With this in mind, Tokheim is proud to present our ProFleet business to the UK marketplace. To support this unrivalled and comprehensive offering of products and services, Tokheim has a range of technologies and a team of local and central specialists (across engineering, retail IT, project conception and construction disciplines) in place which can work in partnership with you, our valued clients, to deliver the best all round solution for managing your fuel. Tokheim ProFleet provides a dedicated set of services to the commercial fleet industries. Design, build, install and service - We are in partnership with our clients every step of the way."

Tokheim ProFleet's products and services include:

■ **DiaLOG:** The DiaLOG is a browser-based fuel management system which allows operators to control their fuel more effectively. For the DiaLOG hardware customers can choose from a standalone terminal to control

multiple dispensers or opt for a fuel management solution integrated in a Quantum 110 or 210 fuel dispenser.

■ **Quantum Fuel Dispensers and AdBlue Solutions:** Tokheim's range of Quantum dispensers for the commercial fleet sector is renowned for its quality. The products and manufacturing plants are ATEX and MID certified. Tokheim offers a flexible range of AdBlue dispensers as well as a variety of tank storage options ranging from 4,000 to 10,000 Litres.

■ **SmartFuel for Tokheim ProFleet:** SmartFuel is Tokheim's advanced vehicle identification system which links directly to DiaLOG. SmartFuel authorises the transaction through a tag fitted to the vehicle; reducing fraud and paperwork. With the GPS system, the transfer of mileage data can be automated. SmartFuel simplifies the complete transaction from inserting the nozzle, fuelling the vehicle and returning the nozzle to the boot.

■ **Project Management and Support**

**Services:** Tekheim's local teams can cover everything from the development of CAD drawings and specifications, pipe and tank works through to the construction of fuelling areas, and finally to the installation, commissioning and servicing of equipment. It also installs and maintains its products as well as a full range of third-party suppliers' fuel equipment.

**T: 01382 483500**  
**W: <http://tokheim.com>**

#### GROENEVELD

Controlling emissions is a key consideration for bus and coach fleets. That is why Groeneveld has developed an oil management system which assists in emission reduction, while offering the optimal oil level and quality under all operating conditions.

The Oilmaster system from Groeneveld replaces the manual checking and replenishment of oil between changes and



## Automated maintenance and safety

YOUR EFFICIENCY IS OUR CHALLENGE

Visit us at Euro Bus Expo on STAND B68

Oilmaster maintains the optimum oil level under all operating conditions.

#### KEY FEATURES AND BENEFITS

- ☉ Smart electronics prevent overfilling
- ☉ Cuts downtime, maintenance and repair costs
- ☉ Assists in emissions reduction

**LEVELMASTER**  
our 'at a glance external' oil level indicator.



Please contact us on  
01509 600033 or [info@groeneveld.co.uk](mailto:info@groeneveld.co.uk)

[www.groeneveld-group.com](http://www.groeneveld-group.com)

# Envirox™

THE FUEL SAVING ADDITIVE



Saves fuel



Reduces emissions



Cleans engines



*'In the present economic climate we continue to strive for cost savings in our operations whilst also improving our environmental performance. Envirox™ has the potential to address both of these aims without any capital investment.'*

James Freeman,  
Chief Executive Officer of Reading Transport

For more information visit [www.energenics.co.uk](http://www.energenics.co.uk)

**ENERGENICS**

[www.coachandbusweek.com](http://www.coachandbusweek.com)

