



PRESS RELEASE

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Swedish Public Transportation Authorities and bus companies are searching for partners who can provide LBG+Dual Fuel technology for buses

Several Swedish PTAs and bus companies are looking for the right equipment to convert their buses to a liquefied bio-methane gas (LBG) and Dual Fuel concept. The goal is to convert current diesel buses to operate primarily on bio-methane. If the right technology is obtained, a pilot test will be carried out during 2009. If the test is successful, the concept will be implemented on a large scale.

Swebus AB, a company within the Concordia-concern, have intentions to test a new concept for their buses. The goal is to convert existing diesel buses to a fuel system consisting of liquefied bio-methane gas (LBG) and dual fuel technology. The intended project corresponds well with the environmental goals of *Swebus AB*, whose Swedish bus fleet consists of approximately 2500 buses. In addition to *Swebus AB*, *Gamla Uppsala Buss AB* and several other companies are part of the project. For example, the supply of LBG during the project will be provided by *ScandinavianGtS AB* LBG production plants, and falls under present master plan agreement between *Upplands Lokaltrafik* and *Scandinavian Biogas AB/ScandinavianGtS AB*.

The PTAs and bus companies in Sweden have set tough environmental goals, and due to the environmental benefits of bio-methane, this is a sought after solution. The idea of being able to convert existing diesel buses to a dual fuel concept is very attractive. In order to obtain bio-methane in a convenient way, and ensure that the technology can stand the test of the future, liquefied bio-methane (LBG) is the fuel of choice.

Swebus AB and Gamla Uppsala Buss AB are currently looking for providers of dual fuel technology functional with LBG/LNG. The equipment should be made and tested for the following engines: Volvo B12 model 2002 and MAN OM 906 LA 111/4. The equipment ought to be installed no later than December of 2009.

The project aims to begin as soon as possible, initially by building of knowledge, and then followed by a pilot test of installing the technology in eight buses in the city of Uppsala. If the tests are successful, the concept will be carried out on a large scale in Sweden and possibly other countries as well.

The project will be carried out in cooperation with the regional project *Biogas Öst* which promotes the use of bio-methane in Sweden. *Biogas Öst* will provide the project with a large regional, national and international network which will offer successful and immediate dissemination of the project's results. Several other PTAs and bus companies in Sweden have already expressed a great interest in the test results. Some examples of these are *Storstockholms Lokaltrafik*, *Upplands Lokaltrafik*, *AB Västerås Lokaltrafik*, which together, include vehicle fleets totaling over 2000 buses.

If your company has a stake in this project. Please contact us ASAP through our contact person at Biogas Öst.

Beatrice Torgnyson Klemme
Beatrice.torgnyson@energikontor.se
Phone: +46733970625



About Dual Fuel: Dual Fuel technology enables heavy duty diesel engines to operate primarily on bio-methane (or natural gas). With this technology the fossil diesel fuel is replaced up to 90% with renewable bio-methane. The remaining diesel part is acting as a “liquid spark plug”, and this diesel fraction can be replaced with bio-diesel, creating a carbon neutral heavy duty vehicle. With this technology the high performance diesel engine is basically unchanged.

