



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.

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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.