

U.S. DOE, Sweden STEM-AB Volvo/Mack Trucks Program on Advanced Vehicle Technology

Noting the “Implementing Arrangement between the Government of the United States of America and the Government of the Kingdom of Sweden on Cooperation on Research and Development, New Technologies, New Products, New Services, and Enhanced Resource Base for Renewable Energy”, signed by the governments of the United States and Sweden of June 28, 2007.

Objective of the Program

It is intended that the program will address common technical interests of U.S. DOE, the Swedish Energy Agency and the Volvo Group, including the application of bio-fuels to heavy-duty diesel engines, advanced diesel engine-transmission system design and hybrid propulsion technology for commercial vehicles. The program will demonstrate the benefits of international cooperation between countries and companies with specific technical expertise and global reach – to insure a realistic pathway to commercialization.

In support of the program, U.S. DOE, Swedish Energy Agency and Volvo Group intend to explore the possibility of providing the following:

- Analysis of the impact of different bio-fuels on diesel engines in an effort to increase efficiency and fuel economy, and reduce greenhouse gas emissions of new long haul trucks
- Advanced ‘narrow-band’ diesel engine and transmission system development
- Hybrid vehicle technology for heavy-duty engines, coupled with waste heat recovery

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