



AB Volvo

## Press Information

# Volvo's Technology Award presented to team behind fuel-efficient hybrid solution

**Six engineers have been named the winners of Volvo's 2009 Technology Award for their development of the world's first commercially viable hybrid solution for heavy vehicles. The award was presented by Leif Johansson, President and CEO of Volvo, at the Annual General Meeting of AB Volvo on April 1.**

Volvo's Technology Award this year recognizes the work to develop I-SAM, Integrated Starter Alternator Motor, a combined starter, generator and drive motor in a parallel hybrid that, in addition to an electric motor, also has a small compact diesel engine. The combination can reduce fuel consumption for buses by up to 30%, for trucks by 20% and, in a best case scenario, as much as 50% for wheel loaders. This reduces fuel costs and provides significant environmental benefits through lower emissions of carbon dioxide. The quiet and emission-free electric drive also improves environment conditions in the vehicle's immediate surroundings.

I-SAM was presented in March 2006 as the market's first parallel hybrid concept for buses and heavy trucks. The solution can be used in virtually all Volvo Group business areas, since it is based on a common platform with a high percentage of standard components, which also facilitates volume production.

"In the future, the parallel hybrid will not be considered a special solution, and the technology will be included in almost all new city buses and delivery trucks. We see good potential to develop the hybrid technology for all segments of the heavy trucks sector. With its leadership position in the environmental area and its stature as one of the world's largest producers of commercial vehicles, it is only natural for Volvo Group to drive the development of tomorrow's transports," says Leif Johansson, President and CEO of Volvo Group.

The parallel hybrid concept is an excellent feature for city buses, refuse trucks and delivery trucks that drive at different speeds and start and stop frequently. When a hybrid bus drives away from a bus stop, the electric motor is used first, a quiet-running unit with no emissions, and the diesel engine starts up when the bus reaches a certain speed. When the bus brakes to stop at the next stop, the braking energy is absorbed by the electric motor and stored in the batteries – to be used later during the next

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acceleration. Everything is controlled by a sophisticated control unit, which was also developed by Volvo Group engineers.

Engineers from many parts of the Volvo Group have taken part in the development of I-SAM. Six of these engineers were represented at the prize ceremony. Volvo Powertrain was represented by Anders Kroon, Volvo Technology by Jerker Lennevi, Joakim Lindström and Lars Carlhammar, Volvo Buses was represented by Peter Jönsson and Volvo 3P was represented by Christer Ehn.

The Volvo Technology Award was established in 1988 and was awarded this year for the 22nd time. The award is an expression of appreciation for particularly prominent technical achievements within the Volvo Group that contribute to the technological profiling of the Volvo Group and stimulate efforts that further advance the Group's technical skills and expertise.

Read more about Volvo Technology Award on VolvoGroup.com  
[http://www.volvo.com/group/global/en-gb/volvo+group/researchandtechnology/technology\\_award/2009/2009.htm](http://www.volvo.com/group/global/en-gb/volvo+group/researchandtechnology/technology_award/2009/2009.htm)

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The Volvo Group is one of the world's leading manufacturers of trucks, buses and construction equipment, drive systems for marine and industrial applications, aerospace components and services. The Group also provides complete solutions for financing and service. The Volvo Group, which employs about 100,000 people, has production facilities in 19 countries and sells their products in more than 180 markets. Annual sales of the Volvo Group amount to about SEK 300 billion. The Volvo Group is a publicly-held company headquartered in Göteborg, Sweden. Volvo shares are listed on OMX Nordic Exchange Stockholm.

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