



# Variable Torque Motors, LLC

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## Innovative Hybrid-Electric Drive System Introduced

Anaheim, CA -- Variable Torque Motors, (Fort Wayne, IN), formally introduced its hybrid electric drive system at EVS-23 (December 2-5, 2007), a major show of alternative-fuel vehicles. The VTM hybrid-electric drive system is designed for existing vehicles used in start/stop applications. With the VTM retrofit hybrid system, vehicles used in start/stop applications - airport parking shuttle, school buses, and dump trucks - should experience increases in mpg of 30-40%.

The VTM hybrid-electric drive, unlike other systems, requires no recharging using the electrical grid. As a result, vehicles retrofitted with the VTM system can operate 24x7, only stopping for fuel.

VTM system combines a patented permanent magnet motor with supercapacitors. The patented motor automatically adjusts the magnetic field as rpm's increase. The effect of the magnetic field weakening is much like a transmission in a car or truck -- excellent low-end torque and increased efficiency at higher speeds.

According to Lawrence Zepp, VTM VP-Engineering and co-inventor of the patented motor, "The VTM system is a major step forward for hybrid-electric drive systems. VTM is able to quickly convert an existing shuttle bus or school bus to hybrid-electric, thereby immediately and permanently increasing mileage and reducing emissions." Zepp added, "Because motor efficiency is so high, normal braking completely recharges the supercapacitors, eliminating the need for the grid."

The Company emphasized the hybrid-electric drive system does not modify the existing internal-combustion engine, transmission, vehicle support systems or emission equipment. In addition, the system is transferable between like vehicles. Configuring the system to "help" accelerate the vehicle ensures failsafe operation. If the hybrid system stops functioning, the vehicle continues operating using the combustion engine.

Robert M. Suedhoff, VTM CEO, emphasized the competitive pricing for the system. According to Suedhoff, "we priced the system to ensure the user realizes a positive ROI -- just on savings in fuel and maintenance. Whether retrofit or OEM installation, VTM is the best value of any hybrid-electric drive system available."

The drive system is in beta testing. Regular production begins 2008: Q1. -----