



## HEVT'S **Plug-In** HYBRID ELECTRIC SCHOOL BUS CONVERSION

### Electrifying our children's transportation

**H**ybrid Electric Vehicle Technologies, Inc. (HEVT) is custom optimizing its proprietary adaptive control unit (ACU) and plug-in hybrid drive train for the application of school buses. We integrate an electric motor/generator with the existing drive train through the differential for electric traction. We add an advanced battery capable of storing regenerative power. The battery pack is monitored by superior electronics and controls and provides power to the electric drive train.

**Pilot Project Opportunity** – HEVT is planning to convert a limited number of school buses to plug-in hybrids to serve as pilot project demonstrations. Converted vehicles will demonstrate engineering achievements, business opportunity, and energy security/emissions benefits from petroleum displacement. Organizations and individuals will provide a vehicle(s) for conversion. Price depends on the number of conversions as well as the all-electric range.

**HEVT projects the plug-in hybrid electric school bus, with a 35 kWh battery pack, will demonstrate:**

- Up to 15 miles all-electric range per charge
- Anticipated charge time of 4 hours

	Conventional School Bus	Plug-in Hybrid Electric School Bus			
		90 MILES / DAY		60 MILES / DAY	
		Overnight Charge	Overnight + Mid-Day Charge	Overnight Charge	Overnight + Mid-Day Charge
MPG*	6	up to 9.5	up to 12	up to 10.6	up to 16.4
CO <sub>2</sub> Savings Per Year (lb)*	-	up to 16.5k	up to 18k	up to 11.5k	up to 13k

\* Actual numbers will vary based on external and internal conditions, such as drive cycle, vehicle's load, local atmospheric conditions, terrain, state of charge of batteries, number of charges per day, and other factors.

3424 South State Street  
Suite 1A9-1  
Chicago, IL 60616, USA  
Phone: +1-312-235-3602  
Fax: +1-312-235-3603  
hevt.com

# ABOUT HEVT™

HYBRID ELECTRIC VEHICLE TECHNOLOGIES, INC.

For the latest information on HEVT's ventures, contact us at [contact@hevt.com](mailto:contact@hevt.com) or visit [hevt.com](http://hevt.com).



Hybrid Electric Vehicle Technologies, Inc. (HEVT) is an early-stage technology venture specializing in design and development of hybrid and plug-in hybrid electric vehicle systems, components and conversions. HEVT's mission is to lead the way toward sustainable transportation by providing innovative drive train components and adaptive controllers for electric, hybrid electric and plug-in hybrid electric vehicles. HEVT's solutions can apply to almost any vehicle; based on laboratory simulations, the benefits for economics, energy security, greenhouse gas and particulate emissions, and sound pollution increase as the vehicle size increases.

Located at the University Tech Park on Illinois Institute of Technology's campus in Chicago, HEVT has exclusive rights to the intellectual property, patents, and patents-pending covering this revolutionary technology developed by Professor Ali Emadi and his research laboratory at IIT, one of the world's leading teams specializing in power electronics and motor drives for automotive systems.

**Converting Gas Guzzlers to Use Cleaner, Cheaper and Domestic Electricity™**

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