



## HEVT'S **Plug-In** HYBRID FORD F-150 CONVERSION Electrifying a top-selling vehicle

**Hybrid Electric Vehicle Technologies, Inc. (HEVT)** has successfully built the world's first prototype Ford F-150 plug-in hybrid electric vehicle (PHEV), uniquely converting a conventional pick-up truck getting about 16 MPG to a PHEV getting up to 41 MPG. The team is now developing a commercial conversion product and optimizing the adaptive control unit (ACU) to further enhance performance and efficiency.

**HEVT** has optimized a scaled-down version of the plug-in hybrid drive train we have designed for transit buses, along with our proprietary ACU. The design can scale to convert F-250, F-350, etc. We integrated an electric motor/generator with the existing drive train through a modified differential for electric traction. We added 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 will begin with a small pilot program of Ford F-150 pick-up truck conversions. Vehicles will demonstrate engineering achievements, business opportunity, and energy security/emissions benefits from petroleum displacement. Organizations and individuals will provide a vehicle for conversion in Chicago at \$60,000 each. With investments the company receives to continue development and optimization, conversion costs will decline to levels providing significantly lower lifetime cost of ownership.

### **HEVT projects the PHEV F-150 with a 12 kWh battery pack will demonstrate**

- Up to 15 miles all-electric range\*
- Up to 41 MPG for 30 miles/day mixed-speed driving\*
- Up to 21 MPG as a hybrid (beyond all-electric range)\*
- Up to 4,500 lb of CO<sub>2</sub> savings per year\*
- Increased low-speed torque for better towing
- Vehicle-to-grid (V2G) capability
- On-board 120-volt power availability

\* Actual numbers will vary based on external and internal conditions, such as drive cycle, vehicles load, local atmospheric conditions, terrain, state of charge of batteries, and other factors.

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# ABOUT HEVT™

HYBRID ELECTRIC VEHICLE TECHNOLOGIES, INC.

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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 controllers, drive trains, and conversions. HEVT's mission is to lead the way toward sustainable transportation by providing innovative adaptive control units and integrated electro-mechanical drive trains for hybrid 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. The company is seeking investment and partnership opportunities.

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

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