



HEVT'S **Plug-In** HYBRID ELECTRIC 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 with up to 30 miles all-electric range and 40% fuel economy improvement in hybrid mode, beyond the all-electric range. 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(s) for conversion. Price depends on the number of conversions as well as the all-electric range.

HEVT projects the PHEV F-150 with a 20 kWh battery pack will demonstrate

- Up to 30 miles all-electric range per charge*
- Up to 40% MPG improvement as a hybrid (beyond all-electric range)*
- Up to 180,000 lb of CO₂ savings in 12 years*
- 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.

For the latest information on HEVT's ventures, contact us at contact@hevt.com or visit 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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