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EconoPlug® Improves Fuel Economy, Lowers Harmful Emissions

Knoxville, TN -- EconoPlug Technologies, Inc., announced the completion of the development testing of the EconoPlug®, a patented adaptive technology that will improve fuel economy and lower emissions in all gasoline-powered engines.

EPA certification tests performed by Prodrive-Englehard in Detroit, MI, revealed that the EconoPlug® improved fuel economy by up to 10% overall, and more notably, increased normal city driving conditions by an average of a 7.3%. Harmful CO emissions were also reduced an average of 5.8% on newer vehicles and considerably higher on older vehicles, since the gasoline was being burned more efficiently. These results confirmed prior testing by the University of Tennessee and the National Transportation Research Center, Incorporated.

Congressman John J. Duncan, Jr., who, along with his congressional staff, has worked tirelessly to champion the rapid adoption of breakthrough clean energy technologies. The congressman believes that the EconoPlug could allow people who cannot afford to buy new hybrid vehicles the ability to enjoy increased fuel economy.

Joseph Petrolino, Center Director of the National Transportation Research Center, Incorporated (NTRCI), in his summary report of the test results concurred, adding: "The test results show an improvement in fuel economy with the EconoPlug® of between seven and 10 percent depending on test conditions. Additionally, the test results showed significant reduction in NOx emissions of about 40%, with essentially no change in hydrocarbons as measured after the burn and before catalytic converter processing. The results show that the EconoPlug® is altering the combustion process to cause more complete combustion of fuel than the stock engine condition with the same power output."

EconoPlug® -- What It Is and How It Works

The EconoPlug® is a patented adaptive technology that is inserted into the cylinder head of a gasoline engine in the location normally occupied by the spark plug. The spark plug is then installed in the EconoPlug®, which protrudes into the combustion chamber. The EconoPlug® works by injecting a jet flame at very high velocity into the cylinder charged with gas at the precise instant the power stroke is needed. The result is a dramatic increase in engine power that also improves mileage while lowering emissions.

As Howie Gagliano, the CEO of EconoPlug Technologies explained, "the spark plug, invented over 100 years ago, has hardly changed since, even though overall engine design has improved dramatically. The basic spark plug is simple, reliable, inexpensive and inefficient. Inherent limitations of the conventional spark ignition rob an engine of up to one-third of its power, requiring gasoline octane ratings of 87 or higher while contributing greatly to hydrocarbon

emissions. Our rigorous testing of the EconoPlug® confirms that we have largely overcome these limitations.”

Further, Mr. Gagliano added, “We recognize that numerous claims have been made during the past several years by a variety of inventors and manufacturers that cited fuel economy and emissions performance improvement. For this reason, we have devoted the last 3.5 years and hundreds of thousands of dollars towards documenting, on an independently tested and verifiable basis, the honest performance of the EconoPlug®.”

Test Results

University of Tennessee Professors of Mechanical Engineering, Dr. David K. Irick, PhD, and Dr. Harley D. Ferguson, PhD, working closely with the NTRCI, conducted a series of initial tests to determine the viability of the EconoPlug®. Using a 2005 Chevrolet 1500 Suburban SUV 5.3 liter V-8 Vortec free-standing engine for test purposes, the EconoPlug® delivered **a 7.5% to 11% improvement in fuel economy and a lowering of all emissions.**

These initial test results were then validated by Prodrive-Engelhard at their EPA certification test facility in Detroit, MI, where the entire EPA testing protocol was strictly followed. The EconoPlug EPA certification tests **improved fuel economy by up to 10% overall, with a 7.3% improvement in city driving conditions.** Actual results will vary based on individual consumer driving habits.

Market Impact Could Be Enormous

“Let’s put this breakthrough into perspective for U.S. consumers,” said Walt Williams, the Chairman of EconoPlug Technologies, Inc. “According to the U.S. Energy Information Administration, in 2008, the United States consumed about 137.80 billion gallons (or 3.28 billion barrels) of gasoline, about 3% less than the record high of about 142.35 billion gallons (or 3.39 billion barrels) consumed in 2007. Consumption in 1998 was about 126.52 billion gallons (or 3.01 billion barrels).”

“Currently, there are about 244 million vehicles roaming U.S. highways. The typical U.S. household owns two vehicles and consumes about 20 gallons of gasoline per week. Assuming the same driving habits, families that install the EconoPlug® in their vehicles can save about 7%, or 1.4 gallons per week. If gasoline retails at \$2.50 per gallon, that’s **\$130 saved annually per household. With more than 113 million households in the U.S., over \$14 billion per year currently being spent on gasoline could be saved, invested or consumed in a more productive manner.** That adds up to a tremendous boost to our national economy.”

“Of course, the global impact could be even greater. There are over 650 million vehicles worldwide, and the price of fuel is higher abroad than in the U.S.”

“Plus, imagine the positive impact a reduction in gasoline-powered engine emissions will have on society. Thanks to the EconoPlug®, all of us can look forward to cleaner air, a healthier environment, and less pollution in our communities worldwide.”

The EconoPlug® has the potential to revolutionize the global community’s expectations for improvements in fuel economy and emissions. Importantly, the device can be installed in *all* gasoline-driven engines, e.g., automobiles, trucks, motorcycles, boats, personal water craft, agricultural and construction equipment, commercial trucks, government vehicles, lawn and garden equipment, portable generators, etc.

The most immediate application is installation in automobiles that have been manufactured since 1988. Independent test results reveal that the older the vehicle, the greater the improvement in fuel economy and lowering of emissions. Just considering the global automotive market, it is estimated that there are currently over 650 million cars on the road, with manufacturers producing an additional 50-60 million new cars every year.

Next Steps

With development testing now virtually complete, EconoPlug Technologies has made arrangements to begin CARB (California Air Resources Board) testing in California. On same timing, the company is now exploring the best method to rapidly manufacture, market, sell and install the EconoPlug®, thus benefiting the world market for gasoline-powered engines on the fastest possible timing.

Based on current estimates, senior management believes the EconoPlug® could be available for installation in many existing vehicles now on the road as early as mid-2010.

About EconoPlug Technologies, Inc.

EconoPlug Technologies, Inc., a privately-held, Tennessee-based corporation, is a leading innovator in rapid adoption of performance improvement technologies.

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