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When is a spark plug not a spark plug?

When it improves fuel economy and reduces greenhouse gases.

For Immediate Release

Albuquerque, N.M., (October 15, 2007) – Hook a triple “A” battery to a tiny light bulb and you have a flashlight. Now, put a capacitor between the battery and the light bulb and you have a camera flash, which amazingly emits exponentially more light than the flashlight in a single pulse without requiring a larger battery!

Capacitors are common electrical devices found in your computer, your microwave and in even in your car. They store and concentrate electrical power very efficiently, but they don’t feed their great power continuously. They need time to charge up before the power can be released each time.

Now, put a capacitor (also called a pulse circuit) into a spark plug and you have a whole new world of automotive ignition possibilities and a new kind of spark plug called a pulse plug. Developed by Albuquerque-based Enerpulse, Incorporated, Pulstar (tm) is the first pulse plug and the first technological advancement in spark plug design in the past 120 years www.pulstarplug.com/howtheywork.html. Pulse plugs improve combustion efficiency in all spark ignited, internal combustion engines yielding better overall engine performance with fuel consumption and associated green house gases reduced by as much as 10% in some engines.

(more)

“Installing a capacitor into the tiny foot print of a spark plug with enough power to make a difference in combustion was a monumental challenge,” said Louis Camilli, inventor of the technology and President of Enerpulse. “Fortunately Sandia National Laboratories here in Albuquerque provided assistance at critical times that helped accelerate our development process.”

The actual umbrella technology under which capacitive type devices are a subset and how Pulstar (tm) got its name is called, pulsed power. Pulsed power is the term used to describe the science and technology of accumulating energy over a relatively long period of time and releasing it very quickly and increasing the instantaneous power. Sandia National Labs. is the world-wide epicenter of pulse power development. This explains why Albuquerque, not normally associated with automotive developments, has produced one of the most exciting automotive breakthroughs in decades.

ENERPULSE, a privately held company headquartered in Albuquerque, N.M., was founded in 1996. The company develops environmentally friendly ignition products through the application of pulse power technology. For more information, visit www.pulstarplug.com.