

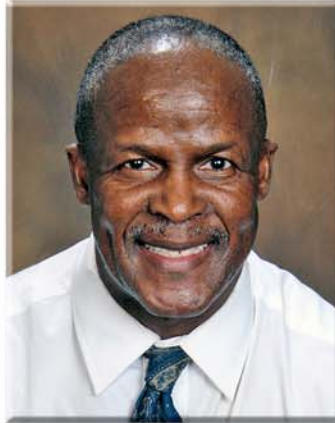
# The power of choice

COST-EFFECTIVE TECHNOLOGY CAN CUT EMISSIONS, SLASH OIL CONSUMPTION AND PROVIDE FUEL FLEXIBILITY

Eco-Motive, of Moreno Valley, California, has been granted a patent for the world's first dual-fuel "H" power plant—what they hope to prove is a revolutionary, cost-effective technology that can cut global emissions, slash oil consumption and increase fuel flexibility for consumers.

The principle is simple. "Our unique H-shaped motor uses a pair of individual cylinder banks and respective crankshafts," said Eco-Motive founder and CEO Herns Louis. "Each side is controlled by an engine selector gearbox, which connects to the transmission." The H-motor can be powered by either gasoline or compressed natural gas (CNG), driver's choice. Each bank of the engine is powered exclusively by one of the two fuels; with the push of a button, the engine switches over. "The technology can be easily adapted to existing engines, making the implementation very cost effective," Louis continues, allowing a manufacturer to apply it to "any internal combustion engine with an even number of cylinders (in any truck, SUV or car they currently build, regardless of its transmission or configuration."

The H-motor is fed by dual gas tanks on either side of the drive shaft. A fuel inlet for each tank can be located on that tank's side of the car. (Exact



fitments may vary by vehicle.)

The engine was invented by Louis, a veteran of over 30 years in parts manufacturing ranging from automotive to aerospace, specializing in computerized parts machining. "Our intent is to help automakers leverage plentiful natural gas supplies and existing infrastructure to meet pending government regulations for emissions and fuel economy," said Louis. "Our intent is to partner with visionary auto manufacturers who want to leverage this flexible technology worldwide."

There are over 112,000 natural-gas vehicles in use in the US and 15 million worldwide. Since almost all natural gas currently consumed in the US is produced in North America, CNG powered vehicles also help reduce dependence on foreign oil. Natural gas is available at 530 CNG stations nationwide. While the fuel itself is plentiful, it is not yet universally available at the pump—thus, the second bank of H-motor cylinders that use traditional gasoline. Vehicle range, power and utility are similar to those in a conventional gasoline-powered engine. ■

