

A green revolution in the motor industry

Canadian clean technology company Empire Hydrogen sets up operations in Norway



Empire Hydrogen's technology improves engine performance on highway trucks, among other types of vehicles. Photo: Benson Kua

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The members of the Canadian Norwegian Business Association recently received information about investing in a Canadian company: Empire Hydrogen Energy Systems, Inc. According to the company, they are set to revolutionize the global motor industry through their new technology system, which leads to better operating results for transportation businesses and cleaner air for all of us.

The technology of the internal combustion engine used in modern automobiles has been around for over a hundred years. It predates radio, airplanes, television, penicillin, polio vaccine, nuclear energy, the internet, and cell phones. While modern vehicle engines are controlled by computers, their efficiency still averages only about 18 percent.

In response to universal concerns for green solutions to the growing global energy requirements, Empire Hydrogen was formed in 2009 in B.C., Canada. After aggressive research into effective technologies that would reduce the environmental impact of gas and diesel vehicles worldwide, they developed and brought to market an oxy-hydrogen fuel booster system that reliably increases engine performance and substantially reduces emissions.

As well as reducing the environmental impact of internal combustion engines, the technology greatly reduces fuel costs. The efficiency of an internal combustion engine, either gasoline or diesel, can be dramatically

improved by injecting a very small amount of a mixture of hydrogen and oxygen gas into the engine's air intake.

Today Empire Hydrogen has more than twenty sale and installation centers, integrating their technology on machines such as highway trucks, electrical power generators, boats, and heavy construction equipment. One of their typical centers is Dhillon Truck Repair Ltd., which signed up after a testing period to ensure that the system met factory performance specifications. Dhillon is the largest truck facility in Surrey, B.C., and provides service and mechanical repairs for many large trucking fleets and a large number of independent owners. The truck repair company planned to sell and install hundreds of units over a year.

In a nutshell, the system is simple. The unit, fit to the truck's chassis, gets topped up with water, where its main component breaks the water down to hydrogen and oxygen gas and feeds it through a hose into the engine. This, in turn, mixes with the fuel (diesel or gasoline) in the cylinders, allowing the engine to burn less fuel and run cleaner. Once the gas is detonated in the cylinders, it gets converted back into water.

Recently Inge Myhrvold was appointed Vice-President of Corporate Development for Europe and is setting up overseas operations for the company in Oslo, Norway. It's a natural fit for the company as Chairman Sven Tjelta has had major business connections in Norway for decades!

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