

Quartus Systems Bringing 'Power to the People'

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Steve VanDusen, president of research and development for Tri-Canadian Energy Power Corp. discusses the new Quartus power system with marketing and sales director Jason Heard during the official launch of the new system last week at the company's headquarters on Front Street North in Campbellford.

Campbellford - The developers of a new three-in-one energy charging system designed to supply homes and businesses with electricity, heat and hot water say they are about to bring “power to the people.”

The Quartus System will provide clean, affordable green energy to homeowners and businesses seeking to “get off the grid” without using expensive solar and wind power systems, said Kevin Gale, sales and marketing manager for Tri-Canadian Energy Power Corp. during the official launch of the new energy system last week at the company's head office in Campbellford.

“This is the Cinderella of renewable energy,” Gale said of the combined heat and power charging delivery system that uses a tier four diesel engine to produce DC energy for batteries.

The DC energy is then converted into a pure and efficient form of AC energy to provide electricity and heat without being connected to an expensive, energy-consuming power grid. The result is a significant reduction of greenhouse gases generated from the home, Gale said.

The Quartus System is essentially a micro power plant, not a generator, Gale stressed.

“It produces electricity, heat and hot water, and we've added a fourth dimension by making it a micro plant, hence the Quartus name,” he said.

There is nothing original about the system's components, which are all the result of established technologies, Gale observed. But when combined, the result is an entirely new and revolutionary power producing process that can use vegetable oils, algae oils and other biofuels in addition to diesel fuel.

Non-fossil fuels are actually the preferred fuel of the Quartus system, said Steve VanDusen, president of research and development and the creator of the new system.

Every year restaurants dispose of thousands of gallons of used vegetable oils that could be cleaned and used as fuel, said the Prince Edward County resident who started developing the Quartus system more than five years ago as an alternative to paying \$28,000 to hook his new home up to the closest hydro lines.

A Quartus system now provides power to his home on Clark Road near Picton. And a second prototype system lights up and heats the 13,000 square-foot Tri-Canadian headquarters on Front Street North in Campbellford.

VanDusen expects the first customers of the new system to be people who are considering building homes on roads not reached by hydro poles.