

ENERGYOR DEMONSTRATES FUEL CELL TECHNOLOGY WITH DEFENCE RESEARCH & DEVELOPMENT CANADA (DRDC)

Halifax, Canada: EnergyOr Technologies Inc., a leading developer of advanced proton exchange membrane (PEM) fuel cell systems, recently demonstrated its fuel cell technology at the Defence Research & Development Canada (DRDC) Demonstration Day which was held at the Naval Electronics Test Range Atlantic (NESTRA) Facility at the conclusion of the Unmanned Systems Canada Conference on November 10th, 2011 in Halifax, Nova Scotia.

The DRDC demonstration was a live presentation of their ongoing R&D program for unmanned systems (land, sea and air) and to demonstrate some of the Canadian military's unmanned systems capabilities. On display was the DRDC WinDex hydrogen-powered fuel cell UAS developed in collaboration with EnergyOr, where live demonstrations of the fuel cell system were performed. The aircraft represents a modern aerial platform that has demonstrated high efficiency, low-heat and reduced noise signatures.

The integrated hybrid UAV propulsion system was designed to take full advantage of fuel cells for their high energy density, and lithium polymer (LiPo) batteries to provide short bursts of power during take-off, climb and severe weather conditions. The result is that UAVs powered by EnergyOr's line of EPOD fuel cell systems have a flight endurance that is up to four times longer than those powered by rechargeable LiPo batteries.

EnergyOr also recently completed a long endurance flight of more than 10 hours with its fuel cell powered, operational UAV, FAUCON H2. Complete with integrated avionics, the aircraft executed a predetermined flight plan for 10 hours and 4 minutes, then landed autonomously just after sunset on Friday, August 12th, 2011 in Drummondville, Quebec, Canada.

About DRDC

Defence R&D Canada is an agency of the Canadian Department of National Defence that responds to the scientific and technological needs of the Canadian Forces. Its vision, mission and values guide Defence R&D Canada to ensure that the Canadian Forces remain scientifically and operationally relevant. The agency is made up of seven research centres located across Canada with a corporate office in Ottawa.

About EnergyOr

EnergyOr Technologies (2002), was the first and only company to fly a fuel cell powered UAV in Canada (May 2007), and in December 2007, performed the first ever fuel cell flights in Israel, exceeding 5 hours of flight endurance. In March 2009, EnergyOr integrated the EPOD EO-210-LE fuel cell system into the Bird Eye 650 developed by Israel Aerospace Industries (IAI) and demonstrated very successful long endurance flights of similar flight times.

EnergyOr recently developed the EO-310-XLE which is its latest generation of advanced fuel cell system technology. This lightweight and rugged UAV propulsion system is similar to EnergyOr's other EPOD products, the EO-210-LE and EO-210-XLE, but provides 50% additional power with effectively the same size and weight. It has been designed specifically to deliver extended flight endurance at high altitude, high ambient temperatures, and under the most demanding of weather conditions.

EnergyOr offers fuel cell products including the EPOD line of UAV fuel cell systems, the EPAC line of portable auxiliary power units (APUs), the EDAQ fuel cell data acquisition & diagnostic system, and the HPOD hydrogen filling station. EnergyOr provides total system solutions which include compressed gas and chemical hydride cartridge hydrogen delivery systems, and also complete system integration services. Please refer to our product brochures online for more information or contact EnergyOr directly.

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