

ENERGYOR FUEL CELL POWERED UAV *COMPLETES SUCCESSFUL FLIGHTS*

Montreal, Canada: EnergyOr Technologies Inc., a leading developer of proton exchange membrane (PEM) fuel cell systems, has designed, constructed and tested an Unmanned Aerial Vehicle (UAV) platform to demonstrate the value of its fuel cell technology. This platform has been prepared by EnergyOr to demonstrate that our fuel cell hybrid system will achieve 8 hours flight endurance in the near future. In preparation for this endurance flight, EnergyOr recently completed the successful integration and performed numerous test flights using its EO-360 UAV powered by a fuel cell/battery hybrid system. The UAV was equipped with payload and avionics. EnergyOr developed and integrated the entire system including UAV airframe, fuel cell stack, controller, software, hydrogen delivery module, and all other mechanical / electrical subsystems. The advanced propulsion power / energy management strategy included in-flight charging of the LiPo batteries.

The hybrid UAV propulsion system was designed to take full advantage of fuel cells for their high energy density and LiPo batteries to provide short bursts of power during take-off, climb and severe weather conditions. The outcome is that UAVs powered by EnergyOr Fuel Cell Systems have a flight endurance that is two to three times longer than those powered by the best rechargeable batteries (LiPo).

There is a growing interest in electrical UAVs that is beyond the confirmed value for military operations. The civil applications are numerous and include traffic and accident surveillance,



survey and inspection of remote power lines and pipelines, emergency and disaster monitoring, search and rescue, and agricultural spraying to name a few.

“EnergyOr is very excited by these recent flights, which are the result of strong team work, advanced engineering and a motivation to succeed”, stated Michel Bitton, President and CEO, EnergyOr. “Our flight times are expected to exceed 9 hours in the near future which will be a revolutionary era for the electrical UAV market”.

EnergyOr provides “turn-key” system solutions which include hydrogen storage, a portable hydrogen “filling station” and integration of the complete fuel cell system into the UAV.

About EnergyOr

EnergyOr Technologies, incorporated in 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 fuel cell flights ever in Israel. During 2008 and 2009, EnergyOr achieved numerous successful flights with operational UAVs from two leading Israeli UAV manufacturers where 5 hours flight endurance was achieved. EnergyOr has also developed a fuel cell powered “field unit” to replace the gasoline generator for UAV ground stations and other electrical needs (computers, mobile phones, etc.).

EnergyOr will present its technologies and achievements at the Association for Unmanned Vehicle Systems International (AUVSI) Exhibition in Washington DC from August 10-13, 2009.

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