

HYCARUS Press Release

Paris, June 19 2013

Zodiac Aerospace is coordinating a new research and development project – HYCARUS¹ – to demonstrate how promising hydrogen-air Proton Exchange Membrane (PEM) fuel cell system technologies can be used in non-essential aircraft applications such as galleys, lavatory or crew rest compartment in a large commercial aircraft or secondary power sources on-board a business jet. Such technologies will contribute to reduce aircraft fuel consumption and green-house gas emissions and offer innovative services to aircraft manufacturers and airlines.

HYCARUS gathers expertise of 9 partners from 5 European countries, including Europe's leading system integrator – Zodiac Aerospace (FR, DE, CZ); fuel cell research organisation – CEA (FR); world leader aircraft manufacturer – Dassault Aviation (FR); world leader in gases for industry, health and the environment – Air Liquide (FR), Europe's leading test facility organisations – INTA (ES) and JRC-IET (BE) and Europe leader in collaborative R&D consultancy – ARTTIC (FR). The renowned experts will now join their strengths to develop and integrate an emission free, environmentally and economically friendly fuel cell system for airborne usage.

HYCARUS addresses the global concern of European airlines and business jet operators to find alternative sources to power non-propulsive aircraft systems in order to positively impact the environment and address future emission regulations. Due to their multiple benefits, such as no pollution, high efficiency, safety and silence, the use of PEM fuel cells is now being deeply investigated for generating electrical power for non-essential aircraft applications. These fuel cells appear now to be the most promising technology for aircraft electric power generation.

HYCARUS is partially supported by the Fuel Cell and Hydrogen Joint Undertaking (FCH JU), an initiative of the European Union driven by the joint cooperation of European public research centers and private industries actively engaged in the investigation of the fuel cells usage.

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¹ HYCARUS stands for *HYdrogen Cells for AiRborne Usage*