

## **Cella Energy and Herakles sign Memorandum of Understanding to continue their collaboration to develop hydrogen based power systems for aerospace**

**Le HAILLAN, France, 10-12-2015.**

The solid-state hydrogen storage company Cella Energy and the French aerospace Herakles (Safran) have signed a Memorandum of Understanding to define the principles which will govern a five year exclusive cooperation plan which will kick-off at the conclusion of a long term development agreement based on Cella Energy's solid-state hydrogen power systems for use on aircraft. These lightweight systems will provide electrical power on-board aircraft, which would otherwise come from jet fuel.

Over the last year, Cella Energy and Herakles have been working together to prove the feasibility of using Cella's hydrogen storage material for aerospace applications.

"Reducing emissions in aerospace is one of the major objective for the next decades. The increasing electrification of aircraft provides an opportunity to reduce the use of jet fuel by using an alternative and weight competitive power source such as hydrogen. Cella Energy has a unique hydrogen storage material that we believe could satisfy the industry's requirements", according to Philippe Schleicher, Herakles' CEO.

Cella's technology is based around a plastic-like material, that when heated to over 100 centigrade releases hydrogen quickly. When this hydrogen is fed into a fuel cell it is converted into electrical power, with zero emissions at the point of use. The material is lightweight and stable in air and avoids the need to use high-pressures; all of which help to overcome the logistics and safety hurdles that hydrogen has to surmount to be acceptable in the aerospace sector.

"We believe that Cella Energy has disruptive technology that is the break-through that the hydrogen community has been waiting for. Its versatility means that it can meet power requirements for applications that range from a few watts to hundreds of kilowatts," said Alex Sorokin, the company's CEO.

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### **About Cella**

*Cella Energy is a privately held, advanced materials and technologies company with first-mover advantage in safe, high performance hydrogen storage technology. Cella Energy works on its own or in partnership with global leaders in Aerospace, Defence and Security, Transport, and Commercial sectors to develop advanced hydrogen storage material and bespoke power systems for a variety of applications.*

*Herakles, a Safran company, designs, develops, produces and sells solid rocket motors, energetic materials and equipment, and thermostructural and organic composite materials for the defense, aerospace, automotive and manufacturing industries. Herakles provides products and services for a number of applications, including strategic and tactical missiles, launch vehicles, civil and military aircraft, automotive safety systems and tooling for manufacturers.*

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