Next Generation Battery Technology

Press release

August 19th 2015

ALISE PROJECT TO DEVELOP BATTERY TECHNOLOGY TOWARDS 500Wh/kg by 2019

OXIS Energy is a crucial component of the ALISE project whose target is to develop Lithium Sulfur technology to 500Wh/kg with 2000 cycles by 2019. ALISE is a pan European collaboration focused on the development and commercial scale-up of new materials as well as understanding the electrochemical processes involved in lithium sulfur technology. This project will run for four years and has fifteen partners in total. It will involve the development of the key components of the cell; namely the anode, cathode and electrolyte and will culminate in an ultra-lightweight battery for a SEAT vehicle for testing on-track and public roads. Leitat is the lead organization involved and will co-ordinate and manage the entire project.

The CEO of OXIS Energy, Huw Hampson-Jones said, "OXIS has already advanced lithium sulfur technology to achieve 325 Wh/kg. We expect to see the widespread adoption of Electric Vehicles enabled by the work of this project".

OXIS will lead the work to develop the anode, the critical area needed to achieve high cycle life. Aided by Leitat, The Technical University of Dresden, Polito and C-Tech Innovation, OXIS will develop both anode coatings and alternatives to the pure lithium used today.

OXIS will also work to develop the cathode and electrolyte. The company will partner Fraunhofer IWS and Solvionic and target a gravimetric energy of 500Wh/kg needed for lightweight batteries which will increase the range of Electric Vehicles (EVs). Range is often seen as the barrier to the widespread adoption of EVs.

OXIS will then use its experience of lithium sulfur manufacturing to scale-up the assembly of this new generation of cells from lab scale to pilot production scale. SEAT, aided by OXIS, VARTA, Ficossa, CEIT, Idneo and RDVS will integrate these cells into its vehicle.

The ALISE project involves dedicated durability and testing that will ensure the safety and adequate cycle of the battery being developed. OXIS has already built several lithium sulfur batteries including for e-bikes, energy storage and an EV battery, integrated into the world's first Lithium Sulfur powered EV.

This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No [**666157**].

About OXIS Energy Ltd

Since it was founded in 2005, OXIS Energy Ltd. has been at the forefront of developing Lithium Sulfur battery technology. With 21 families of patents, OXIS has been granted 64 patents with another 60 pending.

One of the most important breakthroughs achieved by OXIS relates to safety. One of the problems with Lithium ion is its volatility but OXIS now has demonstrable empirical data to demonstrate the safety of its battery technology.

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