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# OXIS ENERGY

## Next Generation Battery Technology

*Located in the Culham Science Centre near Oxford, OXIS Energy has been developing its Lithium Sulfur Li-S rechargeable battery technology since 2005. Due to rapid growth, and thanks to nearly USD 70 million investment in recent years, OXIS is now ready to move into the mass production and commercialisation of Li-S pouch cells for a number of applications, such as electric vehicles, energy storage, defence, aviation, space and maritime. Huw Hampson-Jones told us about his plans to expand the service offering of the business.*

OXIS's mission is to remain a leader in the Lithium Sulfur rechargeable battery industry. The firm have been putting significant resources into their R&D department in order to push the development of the technology they offer, and to achieve their long term targets, as Huw explains.

"Since our foundation, we have developed two types of Lithium Sulfur pouch cells: Long Life and Ultra Light. Our Long Life ranges features high safety and cycle life, and is capable of around 1500 cycles with a specific energy of 220 Wh/kg, with a 39 Ah cell. Our Ultra Light range features high gravimetric energy density and safety. In Q3 2016, we tested an R&D 18 Ah cell at 400 Wh/kg. We also have the capability to develop prototype Li-S battery systems and integrate third party Battery Management Systems.

"We are in the process of upscaling our production facilities in the UK, so that we will be able to manufacture cells in large volumes in order to respond to customers' demands. We also have an existing collaboration with GP Batteries of Singapore, which allows us to manufacture cells and supply quality products to our customers. We are constantly seeking partnerships with system integrators and battery manufacturers to build Li-S battery systems and to demonstrate the strengths of the technology in a number of fields.

"Our current customers include Daimler, Siemens, Renault, Steatite, SEAT, Airbus, the UK Ministry of Defence, the US Army, Qinetiq and Sony, and thanks to the performance characteristics of Lithium Sulfur, OXIS is now planning to introduce the technology to an even wider range of applications.

"We are currently working on the development of a Li-S battery pack for an electric scooter, targeted for the premium market segment in China. Battery tests are underway at our partner Lithium Balance, in Denmark, and the commercial roll out is expected in late 2017, early 2018. We are also planning to start the development of a Li-S battery system for electric buses. Our technology is a strong contender in this sector, thanks to its high gravimetric energy density and safety, which results in weight saving and thus an increased number of passengers."

