THE ENDURANCE OF FUTURE BYE AEROSPACE EAIRCRAFT TO BE INCREASED

News / Business aviation, Maintenance / Trainings

A 12-month collaborative programme, announced in late July is began by OXIS Energy and Bye Aerospace. The programme seeks to achieve a 50% to 100% increase in flight time from a single charge on future Bye Aerospace eAircraft.

An innovative Lithium Sulfur (Li-S) battery technology, developed by OXIS,offers significant benefits to aviation markets. Compared to existing Li-ion battery systems technology, the high gravimetric energy density of the OXIS technology - in excess of 500 Wh/kg at 20Ah capacity offers a two-fold reduction in battery system weight resulting in a significant increase in flight duration.

At the outset, the programme will test OXIS cells and modules against the performance characteristics of existing and soon-to-be-announced Bye Aerospace aircraft. This will produce data that will demonstrate the advantages of the OXIS Li-S technology to the aerospace sector and more specifically, to Bye Aerospace's future aviation applications.

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OXIS CEO, Huw Hampson-Jones said, “We believe this collaboration will offer Bye Aerospace the confidence that OXIS Li-S systems will deliver the battery technology that meets the demanding performance and quality required to increase the efficiencies of their future electric aircraft. OXIS is focusing its research and development on the transformation of piston and turbo prop aircraft that is required for regional flight transportation. We believe this to be the first phase in the electrification of commercial aircraft and will ultimately form the basis for the electrification of Air Taxis, with the additional requirement for regional aircraft.

The United States has an impressive tradition of aviators who understand the need to experiment and embark on the deployment of new innovative technology, thus effecting a seismic paradigm shift in the powering of aircraft from using lead based fossil fuels to Li-S battery systems that are free of any toxic pollutants. As a consequence of the significant extension of aircraft flight duration, both companies believe this will allow for the widespread adoption of electric aircraft across the skies of the United States.”

George E. Bye, CEO of Bye Aerospace, acknowledged the importance of next-generation technologies to help companies such as Bye Aerospace keep up with the revolutionary trends of

electric aviation and the resulting demands for more efficient aircraft. “OXIS Energy’s battery technology continues to be an important consideration, and we appreciate the opportunity to collaborate in this way.”

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