PROLOGIUM AND ELYSIAN AIRCRAFT BV SIGN MOU TO ADVANCE THE VISION OF ZERO-EMISSION AVIATION

News / Manufacturer

ProLogium announced the signing of a MoU with Elysian Aircraft BV, a Dutch aerospace company developing large-scale battery electric aircraft and core electrification technologies for aviation. Under the MoU, the two parties will engage in discussions and assessments regarding the potential application of next generation batteries in all-electric aircraft. According to the MoU, both parties intend to explore the joint development and integration of next generation battery cells provided by ProLogium into battery modules and/or battery packs for future aircraft applications, laying the groundwork for zero-emission air travel and next-generation mobility technologies.

Vincent Yang, Founder and CEO of ProLogium, commented: “The development of next generation batteries is not only relevant to the electric vehicle industry, but also closely connected to the future of energy transition and new forms of mobility. Aviation applications place extremely high demands on battery energy density, safety, and weight efficiency, which is why careful and rigorous assessment and validation are essential. We look forward to engaging in collaboration discussions with Elysian to jointly develop the potential application of next generation batteries in all-electric aircraft, and to lay the groundwork for lower-carbon and more efficient mobility in the future.”

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Commenting on the MoU, Co-CEO and CTO of Elysian Aircraft, Rob Wolleswinkel stated: “Battery technology is a key enabler for electric aviation, but aviation requires far beyond cell performance alone. As we advance our all-electric aircraft, the E9X, and the core electrification technologies, we are also working with suppliers and partners who can help shape the broader ecosystem for electric flight. Through this MoU with ProLogium, we look forward to exploring how next generation battery technology could support safe, scalable, and zero-emission aviation.’’

The collaboration discussions will focus on assessing the feasibility of next generation battery technology in aerospace applications. The initial scope includes two technical validation directions: first, standard validation, which will evaluate the potential compatibility of existing next generation battery platforms with aircraft battery systems; and second, customized battery validation, through which the two parties will further discuss battery design directions tailored to specific specifications and performance objectives required for aviation applications. As the companies explore a potential cooperation agreement, the collaboration is expected to focus on battery technologies targeting pack-level energy densities in the range of 320-420 Wh/kg, supporting the performance requirements of large battery-electric aircraft with ranges of 750-1,000 km and to assess the potential advantages of next-generation battery technology over conventional battery technologies in improving weight efficiency, extending range, and expanding mission flexibility for aviation applications.

As the global aviation industry continues to pursue reduced carbon emissions, improved energy efficiency, and sustainable transportation solutions, battery technology’s energy density, safety, weight efficiency, and system integration capabilities will become critical factors in enabling all-electric aircraft to move toward longer ranges and greater commercial viability. With its development potential in high energy density and material-structure safety, next generation battery technology has attracted significant attention in recent years across electric vehicles, aviation, industrial applications, and the broader energy transition. However, aviation applications impose highly stringent requirements on battery system safety standards, reliability, weight management, and certification, and such technologies must still undergo careful validation and long-term development.

Beyond technical performance, the localization of battery supply chains is also an important direction for advancing the sustainability of electric aviation. By assessing local supply and manufacturing capabilities in Europe, there may be opportunities to shorten cross-regional transportation distances, strengthen supply chain resilience, and further reduce the overall carbon footprint from a Life Cycle Assessment perspective. For electric aircraft aimed at zero-emission aviation, batteries are not only the core technology powering flight, but also a key element in enhancing overall sustainability. ProLogium has long been dedicated to the research, development, and manufacturing capability build-up of next generation battery technology, while continuing to advance the potential of next-generation battery technologies across various high-end application scenarios. The MoU between Elysian and ProLogium represents the ProLogium’s progress in jointly exploring future aviation mobility and energy transition solutions with European innovators beyond its existing electric vehicle battery technology roadmap.

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