

REDEFINING AVIATION: PIPISTREL'S VISIONARY APPROACH TO BATTERY TECHNOLOGY

At Pipistrel, we are dedicated to actively shaping the future of flight. With over 15 years of dedicated research and development, our team is passionately working towards not just enhancing aircraft performance but also forging a path toward a more environmentally friendly future for aviation.

Our innovative approach to battery development is a cornerstone of our strategy. "By overseeing the entire process of battery advancement and production, we can continuously refine our electric flight products," shared Tine Tomažič, Director of Engineering & Programs at Pipistrel. This hands-on approach allows us to swiftly integrate customer feedback, ensuring that each innovation not only meets but exceeds user expectations.

In a pioneering move within the industry, our team is also delving into the exploration of second-life batteries. This forward-thinking strategy underscores our deep commitment to sustainability and positions us as leaders in steering the aviation sector toward a circular economy. Our approach to repurposing still-functional components not only supports environmental sustainability but also provides significant economic benefits by minimizing the need for new materials.

A key aspect of our innovation is the development of innovative packaging of batteries. Moving away from traditional designs, we are working to integrate batteries more seamlessly into the aircraft structure. This not only optimizes space but also enhances the overall performance of the aircraft, making our models more efficient and effective.

Looking to the future, we are excited about the possibilities of future battery technology, with detailed plans already in place for innovative advancements. "We always keep an eye on the

future, planning our developments over a four to five-year horizon,” Tomažič elaborated. “Improvements in one area can deliver widespread benefits across multiple models.”

We also recognize that exploration is key in our ability to explore emerging technologies. We actively participate in various European Union-funded Clean Aviation projects, demonstrating our commitment to promoting environmentally friendly aviation solutions on a global scale. Notably, Pipistrel is playing a pivotal role in projects HighSpin, HELENA and MATISSE– each of which studies the next generations of batteries. HighSpin explores evolutionary enhancement, HELENA investigates solid-state batteries, and MATISSE researches structural batteries as a concept.

We take pride in leading the charge towards a new era of flight, where every advancement contributes to a more sustainable world for future generations. At Pipistrel, we are not just developing technology; we are building a legacy of positive impact and innovation.



For interviews, images or further information, please contact:

Rachel Douglass

rdouglass@e-aviation.com

About Pipistrel

Headquartered in Ajdovščina, Slovenia, Pipistrel, a division of Textron Aviation Inc., is focused on electric, hybrid-electric and conventionally powered aircraft solutions. Pipistrel acts with agility to create innovative solutions for a multitude of demographics, including training, commercial and defense. The Velis Electro, the world's first and currently only electric aircraft with full-type certification, and the Alpha Trainer are a foundation for flight schools and pilot training. Pipistrel is transforming aviation by pushing the boundaries of technology to create mobility solutions that positively impact the future of flight.

Contact details

Marissa Gardner

Communications Specialist

mgardner@txtav.com

[+1 316.975.3810](tel:+13169753810)

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