H55 DELIVERS CERTIFICATION-GRADE PROPULSION BATTERY MODULES TO PRATT & WHITNEY CANADA, SUPPORTING DEMONSTRATION OF HYBRID-ELECTRIC AIRCRAFT TECHNOLOGY

News / Manufacturer



H55 announced the delivery of certification-grade propulsion battery modules to Pratt & Whitney Canada in support of the RTX Hybrid-Electric Flight Demonstrator — a milestone that further validates H55's transition from technology development to industrial-scale execution and represents an important step in the commercialization of the company's certification-grade energy storage technologies for hybrid-electric aerospace applications. Pratt & Whitney is an RTX business.

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The delivery represents more than hardware integration. It demonstrates H55's ability to manufacture production-conforming propulsion systems within a regulator-approved environment and deploy them into active aircraft integration and flight-test programs — a capability achieved today by only a small number of companies globally.

As electric and hybrid-electric aviation moves beyond early-stage concepts toward certification and commercialization, aircraft manufacturers increasingly require partners capable of delivering not only technology innovation, but also industrial maturity, safety architecture and certification-ready production systems. For H55, the delivery of production-conforming modules into an active aerospace integration and flight-test program demonstrates the readiness of its technology, manufacturing capability and certification framework to support future commercial applications.

Sébastien Demont, H55 Co-Founder and CTO commented: "Aircraft manufacturers today require more than battery technology. They require certification-grade safety architecture, industrialized manufacturing, operational reliability and scalable systems integration. Delivering production-conforming modules into the RTX Hybrid-Electric Flight Demonstrator validates H55's ability to meet those requirements at an industrial scale and marks an important step in bringing our certification-grade energy storage technologies to a broader range of commercial aerospace applications. This achievement provides a strong foundation for what comes next across hybrid-electric aviation, defence, UAVs and next-generation aerospace platforms."

Jean Thomassin, executive director, New Product and Service Introduction, Pratt & Whitney Canada stated: "Hybrid-electric propulsion represents an important pathway for improving fuel efficiency and performance for a wide range of future aircraft platforms. H55's ability to deliver aviation-grade battery systems within a rigorous certification and production framework plays a crucial role in demonstrating hybrid-electric technology in flight."

H55's proprietary battery architecture was specifically developed to meet the demanding certification and operational requirements of electric and hybrid-electric propulsion systems. The company has accumulated more than 2,000 flight hours across multiple aircraft programs with zero battery-related incidents, creating an operational dataset and safety record that continue to strengthen its competitive position.

The company also became the first in the industry to complete regulator-required propulsion battery certification testing — a milestone now serving as a foundation for deliveries into active aerospace programs. The milestone reinforces H55's position as one of the few companies globally combining:

- Certification-grade safety architecture
- Regulator-approved manufacturing capability
- Validated flight operations experience
- Scalable propulsion system integration

… which is accelerating the company's transition toward commercialization and deployment across hybrid-electric aviation, defence applications, UAVs, and next-generation aerospace platforms, while reinforcing H55's position as a supplier of certification-grade energy storage solutions for future commercial aerospace programs.

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