



MAGNiX ACHIEVES HISTORIC MILESTONE IN COMPLETING NASA TEST CAMPAIGN

News / Manufacturer



magniX announced a historic milestone in completing testing of its magni650 electric propulsion unit at NASA's Electric Aircraft Testbed in Sandusky, Ohio. The magni650 successfully performed at an altitude of 30,000 feet at a maximum continuous power of 700 kilowatts – an unprecedented achievement for an electric engine. The breakthrough performance of magniX's EPU under simulated flight conditions at altitude demonstrates its readiness for the flight test phase of NASA's Electrified Powertrain Flight Demonstration project and moves it closer to the world's first electric engine certification.

In the next stage of EPFD, one of the four turbine engines on magniX's De Havilland Dash 7 test aircraft will be replaced with a magni650 electric powertrain, with test flights planned for 2026. The final stage of the program will see a second turbine engine substituted with another magniX powertrain. This configuration is expected to reduce fuel consumption by up to 40% on a typical flight. Through the data collected, this will bring the electrification of large-scale commercial aircraft closer to entry-into-service by the end of the decade.

With an unmatched record of powering first flights on five different aircraft, magniX is leading the

advancement of electric aviation. Having launched its Samson batteries earlier in 2024, with unmatched energy density and cycle-life, magniX provides a full electric powertrain solution with a clear pathway to entry-into-service.

Ben Loxton, magniX VP of Technical Programs commented: “The NEAT test campaign has moved us closer to the world’s first certification of an electric powertrain for aviation. The work we are doing with NASA in the EPFD project will enable the electrification of regional commercial aviation in pure electric on short routes, and hybridization on longer routes – significant steps toward the decarbonization of aerospace.”

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