JET PERFORMANCE & TURBO-PROP EFFICIENCY - MAEVE AEROSPACE PRESENTS SUSTAINABLE 80-SEATER

News / Manufacturer

Announcing its expansion to Oberpfaffenhofen Airport to accelerate work on the program, Maeve Aerospace is introducing a new, hybrid-electric 80-seater aircraft. The aircraft is designed to support the future of the regional aviation market, delivering a decarbonized, low energy solution with regional jet performance and turbo-prop economics. Maeve is developing the M80, a hybrid-electric aircraft with 800 NM (1482 km) of range, 40% higher energy efficiency and no impact on infrastructure. Maeve has optimized the aircraft concept, to attain best-in-class specifications with regards to passenger capacity, range, lead time and energy needed for implementation.

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Maeve M80 offers the performance of a jet and the efficiency of a turboprop, a game-changing combination. The M80 is a clean sheet design with a newly integrated hybrid propulsion system resulting in significant reduction of mission energy and fuel consumption. This makes the M80 the perfect replacement of both the regional jets and turboprops.

Martin Nuesseler, CTO of Maeve Aerospace, commented: “To my knowledge, there are currently no alternatives in development that are equally sustainable, cost effective, and match the operational needs of airlines and airports. If there are, I would applaud them, because we need more of these realistic solutions to become sustainable”.

Designing cutting edge aircraft

The unique aircraft performance is the result of an aerodynamically optimized clean sheet design and integrated new hybrid propulsion technology. The benefit of taking advantage of an altitude optimized thermal process in combination with electric hybridisation offers the significant energy reduction of the M80. To realize this, Maeve has a robust integrated product development plan in place towards Entry-In-Service in 2031, based on the experience and lessons learned from several aircraft programs, and their industrial ramp-up.

Expansion to Germany

Such a clean-sheet aircraft design requires the best team in the industry and a fast ramp-up of the organization, which is why several aviation experts have joined Maeve in this next development phase. These experts will be based at Maeve’s new location at Oberpfaffenhofen Airport near Munich. Oberpfaffenhofen is a breeding ground for innovation and home to many aviation companies.

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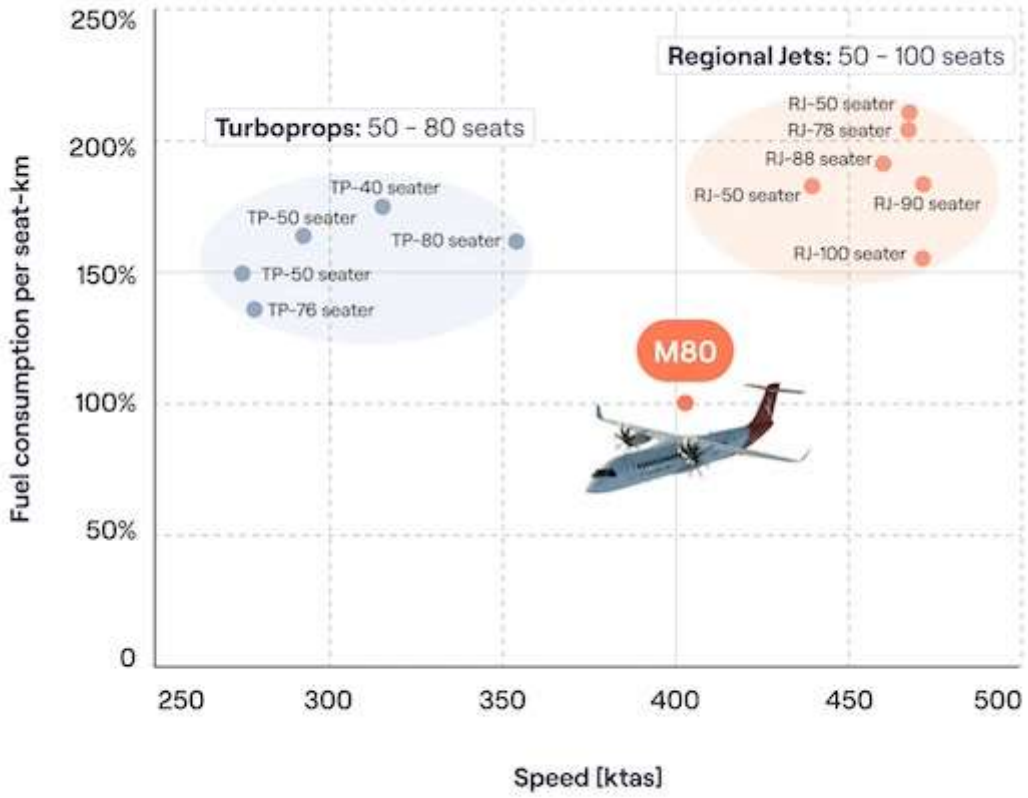

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