BOEING ECODEMONSTRATOR TO TEST TECHNOLOGIES TO IMPROVE CABIN RECYCLABILITY, OPERATIONAL EFFICIENCY

News / Events / Festivals, Manufacturer



Boeing is testing three dozen technologies on its ecoDemonstrator program focused on strengthening operational efficiency and sustainability in cabin interiors, one of the most challenging parts of recycling an airplane. The company will begin testing this month using a 777-200ER . The Boeing ecoDemonstrator projects include:

- Airport operations: Testing to enable single-engine taxi and digital taxi clearances to reduce fuel use and enhance safety by reducing pilot workload
- Airport noise: Quantifying the benefits of flight operation procedures, like steeper glide slope and continuous descent approach, to reduce community noise, fuel use and emissions
- Waste-reducing materials: Lighter, recyclable and more durable floor coverings and recycled carbon fiber ceiling panels – both made with 25% bio-based resin
- Noise and weight reduction: Cabin insulation to better reduce noise and regulate humidity and temperature, and fabric-covered acoustic panels for the bulkhead and galley
- Future cabin concepts: Economy and business class seats with sensors that detect if

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someone is seated during taxi, takeoff and landing which can improve safety, and reduce crew workload and downtime for maintenance; a touchless water conservation lavatory; and galley technologies to make cabin service more efficient and reduce food waste

Stephanie Pope, president and CEO of Boeing Commercial Airplanes commented: "The Boeing ecoDemonstrator program helps us make tangible improvements to our products – allowing us to reduce the environmental impacts of flying, improve the in-flight experience and strengthen the safety of our airplanes. We're grateful for the many partnerships within aviation and beyond who help us turn the seemingly impossible into reality."

Brian Moran, Boeing Chief Sustainability Officer said: "The ecoDemonstrator program is among our most iconic flight demonstrators, having tested 250 technologies since it first took flight in 2012. This year's testing of various cabin interiors aims to help solve for the portion of our airplanes that is not reusable or recyclable while also reducing fuel use and crew workload."

Four of the cabin technologies will be featured at the 2024 Aircraft Interiors Expo in Hamburg, Germany from May 22-24. Since its initial flights in 2012, almost every platform of the Boeing ecoDemonstrator program has flown on sustainable aviation fuel, and this year, the flagship airplane will fly on a 30/70 blend of SAF and conventional jet fuel.

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