



U.S. Aviation Climate Action Plan Accomplishments for 2022

A year ago at the United Nations Climate Change Conference, the United States set a goal in its Aviation Climate Action Plan to achieve net-zero greenhouse gas emissions from the U.S. aviation sector by 2050. Since then, every FAA division and hundreds of FAA employees have set into motion these initiatives in order to accomplish that goal.

Environmental Research and Innovation

- ✓ **CLEEN grants for innovation** - FAA Awards \$100M to Develop Next Generation of Sustainable Aircraft Technology. Breakthroughs involve sustainable aviation fuels, engine technology and airframe innovations.
- ✓ **ASCENT grants for research** - FAA issues \$16M in Grants as Universities Pursue Critical Research to Achieve U.S. Aviation Climate Goals. Research focuses on alternative jet fuels, emissions, aircraft technology, climate modeling and noise issues.
- ✓ **ZEV & VALE grants/Airport Climate Challenge** - FAA, U.S. Airports Team up to Meet 2050 Net-Zero Climate Challenge. Through VALE grants, airport sponsors have been able to finance low emission vehicles, refueling and recharging stations, gate electrification, and other airport air quality improvements. As of September 2022, VALE grants have funded 138 of these projects at 59 airports.

A Greener Air Traffic Operation

- ✓ **Rolling to the Runway test completion** - New Software Capability Gets Planes Rolling Directly to the Runway, Reducing Fuel Burn & Taxi Time.
- ✓ **Installing new descent operations** - FAA Implements More Efficient Descent Procedures to Reduce Fuel Burn, Emissions.

Sustainability at the Airport

- ✓ **Solar arrays** - FAA's Largest Solar Project to Power Mike Monroney Aeronautical Center.
 - FAA researchers use Penn Yan Airport to study solar airfield lighting.

- ✓ Green airports and sustainable buildings - Application Process Opens for Bipartisan Infrastructure Law Funds to Build Safe, Sustainable and Accessible Airport Terminals.
FAA dedicates new and environmentally sustainable air traffic control tower at Charlotte Douglas International Airport.
- ✓ Tower design initiative - FAA Launches Nationwide Solicitation to Design Air Traffic Control Towers of the Future.
- ✓ EAGLE effort - FAA, Industry Chart Path to Eliminate Lead Emissions from General Aviation by the end of 2030.
- ✓ GAMI approval - FAA Grants Approval for Unleaded AvGas Developed by General Aviation Modifications Inc.
- ✓ Proposed rule on engines - FAA Proposes Requiring More Efficient Jets and Turboprops to Lower Climate Impacts.

Continuing to Reduce Noise

- ✓ Noise reduction – Portland Air Traffic Procedure to Reduce Noise.
Boston Air Traffic Procedures Reduce Noise Impact.
The O'Hare Noise Compatibility Commission Approves New Fly Quiet Program.
- ✓ Noise engagement - FAA commits to meaningful engagement and open dialogue with those affected by noise from airspace changes.
- ✓ Noise compatibility planning - FAA Seeks Comments on Updates to Airport Noise Control and Compatibility Planning Guidance.