

NextGen Performance — National Airspace System

On any given day, more than 85,000 flights are in the skies in the United States. Only one-third of those operations are commercial carriers. The remaining two-thirds include general aviation, with private planes and business jets, air taxi flights, military flights and air cargo flights. This translates into roughly 5,000 planes in the skies above the United States at any given moment. More than 15,000 federal air traffic controllers in airport traffic control towers (ATCT), terminal radar approach control (TRACON) facilities and air route traffic control centers (ARTCC) guide pilots through the system. These controllers provide air navigation services to aircraft in domestic airspace and 24.6 million square miles of international oceanic airspace delegated to the United States by the International Civil Aviation Organization (ICAO). The FAA's mission is to provide the safest, most efficient aerospace system in the world, and NextGen is the FAA's comprehensive overhaul of the National Airspace System (NAS) to make air travel more convenient and dependable.

All results are reported by Fiscal Year (FY), October 1 — September 30, or Calendar Year (CY).

NextGen Implementation Plan (PDF)

Environment and Energy

Describes enabling activities leading to the establishment and implementation of the NextGen Environmental Management System, the strategy for ensuring compliance with the National Environmental Policy Act and technologies that support NextGen environmental goals.

Scorecard

Access performance indicators

Performance Indicator (CY)								
CO₂ Emissions <i>Kilograms</i> Estimated quantity of carbon dioxide emissions (CO₂) emitted by commercial aircraft.	2.27×10 ¹¹	2.30×10 ¹¹	2.34×10 ¹¹	2.13×10 ¹¹	2.01×10 ¹¹	2.11×10 ¹¹	2.16×10 ¹¹	1.73×10 ¹¹
NAS-Wide Energy Efficiency <i>Kilograms per Kilometer</i> Estimated fuel Burn in kilograms per kilometer	4.15	4.14	4.16	4.14	4.08	4.12	4.10	4.06
Noise Exposure <i>Number of People</i> Number of persons exposed to significant aircraft noise (regardless of whether their houses or apartments have been sound-insulated). Significant aircraft noise levels are currently defined as values greater than or equal to Day-Night	498,000	480,000	466,000	383,000	292,000	318,000	315,000	321,000

<p>LPV guidance & LP data gathered from the FAA Global Navigation Satellite Systems Group.</p>												
<p>Airport information gathered from the General Aviation Airports: A National Asset study and the Airport Master Record Form 5010 data.</p>	0.10	0.70	3.80	9.60	15.70	23.30	32.00	41.30	49.60	58.30	65.10	67.50
<p>The cumulative percent of qualified national, regional, local and basic GA airports (as defined in the 2012 FAA General Aviation Airports: A National Asset study) with an LPV or LP procedure.</p>												

As described by the International Civil Aviation Organization (ICAO): *A global Air Traffic Management (ATM) system should provide an operating environment that ensures all airspace users have right of access to the resources needed to meet their specific operational requirements and that the shared use of airspace by different users can be achieved safely.*