



Boeing is the world's leading aerospace company and the largest manufacturer of commercial jetliners and military aircraft combined, with a strong tradition of aerospace leadership and innovation. However, Boeing recognizes that pollution and climate change represent serious environmental challenges that require all of us to take action. As a technology leader, our greatest contribution to creating a better future is to pioneer environmentally progressive products and services and relentlessly improve our own environmental footprint.

Boeing's Plan and Commitments

Boeing is committed to improving aviation's environmental profile by:

- Delivering progressive new products and services with improved environmental performance and fuel-efficiency
- Pioneering the development of sustainable alternative fuel sources with improved environmental performance over their lifetime
- Aggressively supporting efficiency improvements in the global air transportation system and an industry goal of a 25 percent improvement by 2020

Each new generation of commercial airplane will be 15 percent more fuel-efficient than the generation they replace. The 787 Dreamliner will be 20 percent more fuel and CO₂ efficient than the airplanes it replaces, while the 747-8 will be 16 percent more fuel and CO₂ efficient.

Boeing is extending the ISO14001 environmental certification standard from its main commercial facilities across all its major manufacturing operations.

Boeing's Record

- **Continued history of innovative leadership:** Aviation is one of the fastest-advancing technology sectors and Boeing has contributed to improving fuel-efficiency of its airliners by 70 percent and reducing noise emissions by 90 percent since their introduction.
- **One of the most efficient forms of transportation:** Boeing's current generation airplanes are as fuel and CO₂-efficient as the average train and more efficient than the average car*.

*as measured by liters per 100 passenger kilometers. E.G. 787 uses 2.3 - 3.6 liters depending on density; train uses 2.0 - 3.8 liters; average car 6.4 liters; SUV (Range Rover) 10.7 liters.

- **Guiding industry collaboration on air traffic modernization:** We continue to work with industry, regulators and airlines to drive the development of modern, globally interoperable ATM systems.
- **Leading the Algal Biomass Organization:** Rising fuel costs and environmental pressures means we must move now to harness the potential of advanced generations of sustainable fuel sources, such as algae, for use across multiple industries including aviation.
- **Guiding the Sustainable Aviation Fuel Users Group:** Boeing is leading a group helping to accelerate the development and commercialization of sustainable new aviation fuels, and to make commercial aviation the first global transportation sector to voluntarily drive sustainability practices into its fuel supply chain.
- **Pioneering sustainable biofuels:** Together with leading global air carriers Boeing is flight testing new generations of sustainable biofuels aboard different aircraft and engine types

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