

Global Warming Impact on Air Transport?

An Air Carrier Perspective

Airlines are committed to:

- Responsible growth
- Industry vitality
- Mitigating our contribution to climate change

Emission reduction drivers:

- Air traffic control
- New technology
- Operations & maintenance
- Alternative fuels
- Ground infrastructure
- Economic measures for aviation sector



Improved Technology

*Delta has increased aircraft fuel efficiency 35% since 2000
(DL/NW mainline fleet has improved from 39.8 to 53.8 RPM/gallon)*

- Removed 509 older, less fuel-efficient aircraft from the mainline fleet
- Added 237 new mainline aircraft
 - A330 is 30% more efficient than DC10
 - A319 & A320 are 25% more efficient than DC9 & 727
- Significant capital investment in existing fleet
 - Installed winglets
 - Lighter service carts
 - Lighter cargo containers
- Reduced empty aircraft weight
 - Fuel & water metering
 - Removed ovens from domestic aircraft
 - Lighter magazine paper

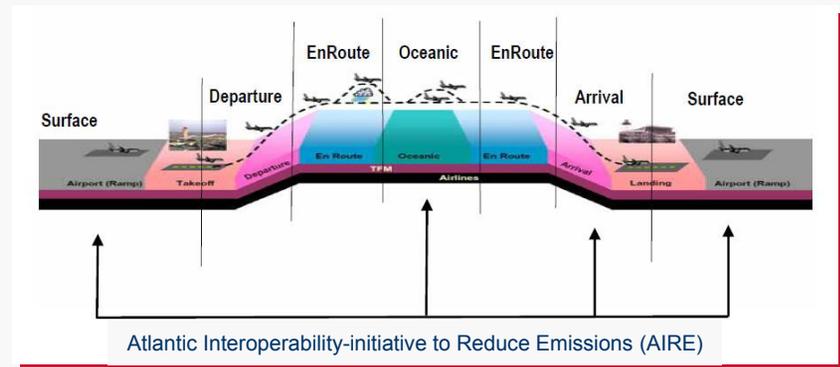


Every item on a commercial flight requires about 4% of its weight in fuel each hour

Improved Operating Procedures

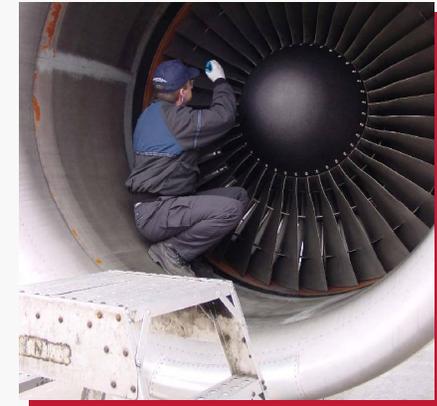
- Modified taxi procedures
- Improved flight planning
- High-speed tractors
- Slower cruise speeds
- NextGen/SESAR
 - AIRE
 - RNP/RNAV
- Schedule adjustments
- Takeoff procedures
- Reduced APU usage
- Continuous descent arrivals

Delta continues to look for opportunities to improve fuel efficiency during every phase of flight.



Improved Maintenance Procedures

- A/C coatings
- Engine compressor washes
- Equipment condition monitoring
- Increased vigilance of flight control rigging and pressurization leaks
- Blade edges, paths & coatings



Maintaining Configuration = Improved Efficiency

Comprehensive Environmental Stewardship

- Ongoing investment in new aircraft & GSE
- Environmental performance
 - Onboard recycling collected 632 tons of material in 2008
 - Daily water usage in Atlanta reduced 500,000 gallons
- Corporate governance
 - Executive Environmental Leadership Council
 - Commitment to sustainability
- Operations
 - Support the FAA/ATA/DOD/Industry Alternative Fuel Initiative (CAAFI)
 - Look into alternative energy sources for GSE, such as solar and biofuels
 - Facility energy audits
- Employee, passenger & supplier engagement
 - Commute options
 - Carbon offset programs
 - Chemical management
 - Environmental partnerships



Pudacuo National Park in China's Yunnan Province

As the world's largest airline, we are working aggressively to reduce emissions and become even better environmental stewards.