



Global Business & Environment Strategy

Billy Glover Vice President Global Business Development & Policy Boeing Commercial Airplanes

Market Environment

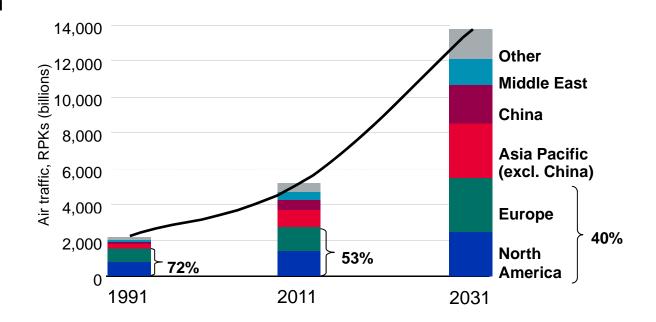
- Large & growing markets
- Challenging competitive environment
- Near- term economic, geopolitical uncertainty
- Volatile & high fuel prices
- Passenger traffic is resilient
- Airplane utilization at historical peaks
- Airlines focusing on profitability & investing for future
- Increasing environmental pressures



Very large market & growing at 5% annual rate

Passenger Traffic

- Traffic 1.5X GDP growth
- Trade & globalization
- Route liberalization
- Traffic diversifying



- Frequencies & non-stops increasing
- Infrastructure constraints...some up-gauging

Growth is driven by emerging economies

Evolving Airline Trends

- Emphasis on lifecycle cost
- Maintenance & engineering outsourcing
- Financing and liquidity
- Mergers, restructuring & alliances
- Revenue capture







Focused on profitability, efficiency & innovation

Strategic Business Imperatives

- Unprecedented rate increase
- Expanding capacity & capability
- Investing in twin-aisle products
- Strengthening quality backlog
- Lowering operating costs
- Driving profitability by <u>doing more with less</u>

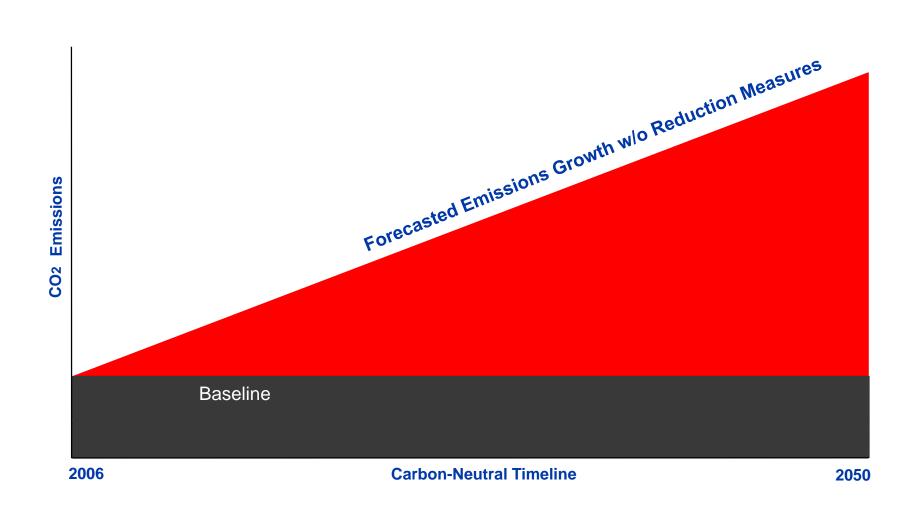






Expanding market share while growing profitability

The Commercial Aviation Challenge Carbon-Neutral Growth

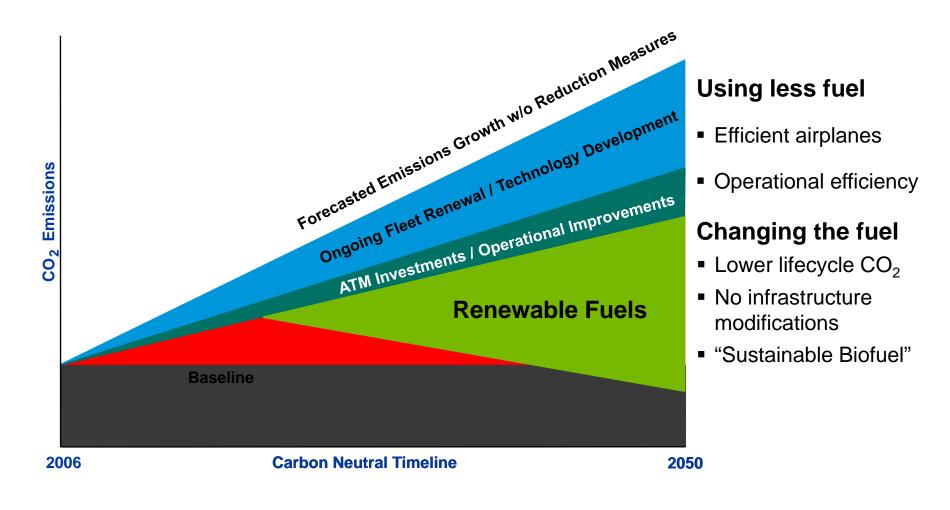


Environmental Stewardship Strengthens Business

- Pollution and climate change are serious challenges that require aggressive action
- Employees, customers, communities and investors expect environmental stewardship
- Environmental improvement supports business performance

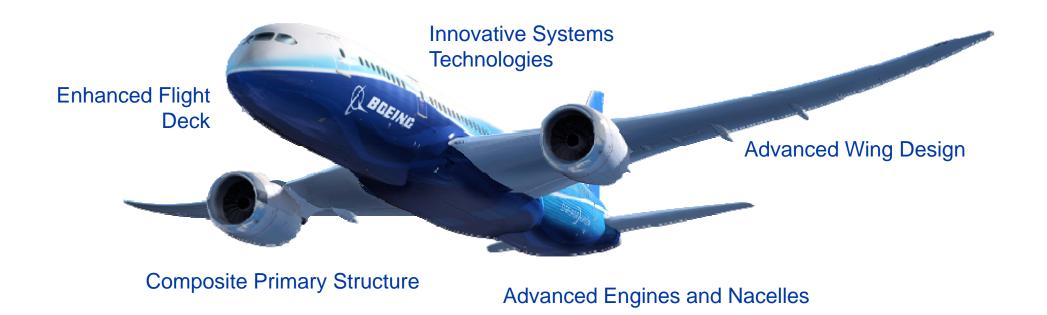


The Commercial Aviation Challenge Carbon-Neutral Growth



Technology Enables Sustainable Growth

The 787 Dreamliner Uses Advanced Technologies to Improve Environmental Efficiency



Cleaner, quieter and more efficient

20%* More CO₂ efficient

28% Below 2008 industry limits for NO_x

60%* Smaller noise footprint

*Relative to the 767

747-8: Incredible Again

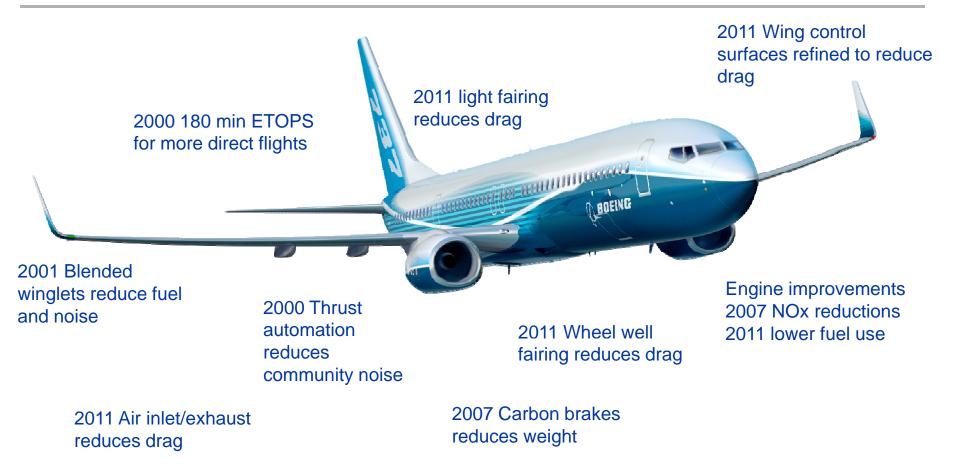


16%* more CO2 efficient

52% Below 2008 limits for NOx

30%* Smaller noise footprint

Next-Generation 737: Continuous Innovation Improves Environmental Performance



Quiet Procedures Can Reduce Aircraft Noise in Communities



Quiet procedures can provide immediate benefits



Benefits vary widely with aircraft and procedure

Proposed procedures depend on the location of the sensitive area

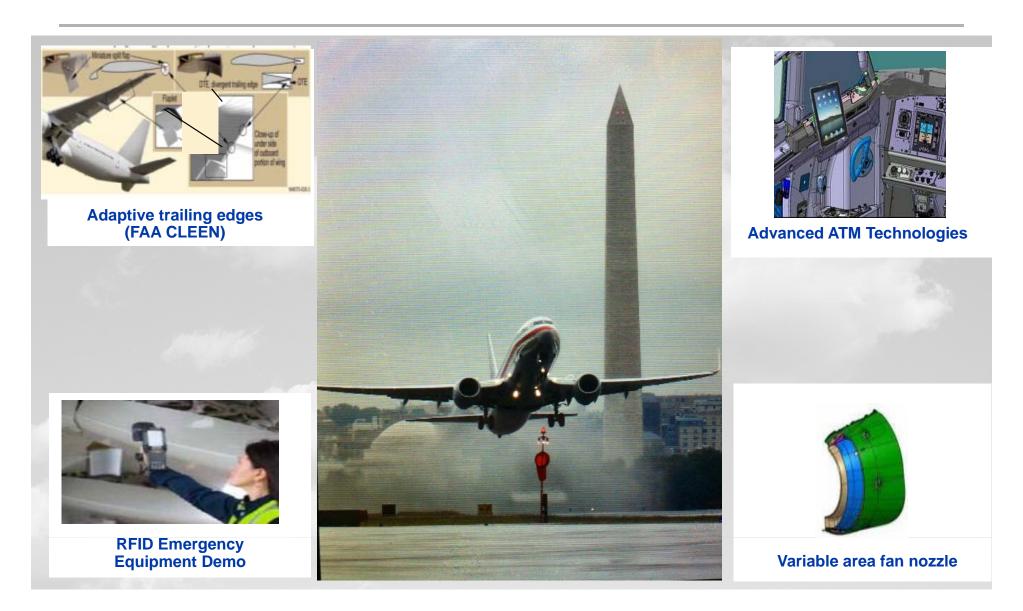
Innovation for the Future of our Industry

Innovation should:

- Support customer profitability
- Enhance industry growth and efficiency
- Bolster our industry's global contributions
- Reduce environmental impacts



2012 ecoDemonstrator



2012 ecoDemonstrator: Collaboration and global industry partnerships



Innovation Supports Customer Profitability

Advanced Technology Winglet Boeing Sky Interior Aft body aero improvements

Local wing strengthening

Systems revisions



State of Aviation Biofuel Industry



Technically viable



In demand



Sufficient supply



ASTM approved

Safe

Superior quality



Airline associations support

"If you build it, we will buy it"

Bill Ayers, Former Alaska Airlines CEO on biofuels



Refinery capacity small but increasing

Limited sustainable feedstock

Finance community increasing comfort

Supportive public policy is critical

Boeing Biofuel Goals and Activities

1% aviation fuel by 2015 (~600M gallons)

3-5 large refineries

1.5M hectares of sustainable energy crops

Near price parity



Ultimate goal is vibrant commercial market

We Are Committed to a Better Future



For more info: www.newairplane.com/environment

