

EUROPEAN BUSINESS AVIATION

→ Being Environmentally Responsible



Business Aviation takes its environmental responsibilities very seriously. It has been a pioneer in the aviation sector, with a number of ambitious voluntary commitments to cut CO₂ emissions. The sector has already reduced its carbon footprint by 40% over the past 40 years and its share of all aviation emissions is just 2%.

In November 2009, the Business Aviation community united to formalise its commitment on climate change, including an ambitious strategy for CO₂ emission reductions.

50 %



reduction in total CO₂ emissions
by 2050 relative to 2005

2 %



improvement in fuel efficiency
per year from 2010 until 2020



carbon-neutral
growth by 2020

Business Aviation Commitment on Climate Change

(introduced in 2009)

Commitments

- Carbon-neutral growth by **2020**
- 2% improvement in fuel efficiency per year from 2010 until **2020**

2010

2020

2030

2040

2050

- A 50% reduction in total CO₂ emissions by **2050** relative to 2005.

Mechanisms

- TECHNOLOGY
including sustainable and alternative fuels
- INFRASTRUCTURE
air traffic control, navigation tools
- OPERATIONS
airports, electric ground power
- MARKET-BASED MEASURES
carbon offsets

On track with fuel efficiency commitments

The sector is improving fuel efficiency by an average of 2% per year from 2010 until 2020. The use of new technologies optimises performance and flight range, and reduces fuel burn. More recently, the introduction and use of sustainable, alternative fuels will also help to reduce engine emissions.

2020 to 2050: Towards achieving carbon neutrality and halving its emissions

With the recent International Civil Aviation Organization (ICAO) agreement to introduce a global market-based measure through carbon offsetting in 2021, the Business Aviation sector is well placed to halve its overall carbon emissions by 2050, relative to 2005. The introduction of a new CO₂ standard in 2023 for new aircraft engines will also help achieve this goal.

Being part of a global solution

Business Aviation assists and provides ICAO with technical expertise on a variety of environmental matters to develop future standards. It also works closely with a broad range of stakeholders towards improvements in technology, infrastructure, operations and sustainable fuels. Through these relationships Business Aviation will continue to make progress in reducing its environmental footprint and overall impact on climate change.



DID YOU KNOW?



Business aircraft manufacturers pioneered winglets, which optimise performance and can reduce fuel burn by up to 5%. Because this technology is so effective, winglets are now widely used in the commercial aircraft sector.

Data Source:

Business Aviation Commitment on Climate Change, GAMA and IBAC, 2009

For more information please visit www.ebaa.org