

What Government can do

- **Airspace** - Continue to support airspace modernisation in the UK with clear national strategies and policies, and maintain momentum towards improved air traffic management (ATM) collaboration across Europe.
- **Supporting Research and Development (R&D)** - Continue to work with the UK aerospace industry to ensure that access to ongoing funding for high value collaborative R&D remains in place.
- **Sustainable Fuels** - We welcome the Government's recent consultation on the inclusion of sustainable aviation fuels into future transport fuels policy. SA will work with Government to ensure that the new policy support drives the development of all innovative low carbon technologies and attracts investment in the UK.
- **Market based measures for carbon emissions** - Continue to work with the aviation industry and through ICAO to focus on implementation details of the CORSIA agreement, including avoiding duplication of coverage with regional schemes, and start the process to develop a market based measure for post 2035.

Aviation in the UK

- UK Aviation CO₂ emissions account for around 7% of the UK total, against 20% for road and rail
- Socio-economic impact of aviation to the UK
 - Turnover of £60billion
 - £52billion in GDP
 - £8.7billion in taxes
 - £26billion, or almost 20%, of all UK exports
 - Provides almost one million jobs

What is SA?

Sustainable Aviation is a unique alliance of the UK's airlines, airports, aerospace manufacturers and air navigation service providers. SA is the first alliance of its kind in the world. Together members of Sustainable Aviation are driving a long-term strategy to deliver cleaner, quieter and smarter flying. A full list of members, and reports which detail the progress in reducing aviation's environmental impact are available online.



SA members progress

- **Airspace** - UK airspace improvements to date are saving more than 1 million tonnes of CO₂ a year.
- **New aircraft** - Since 2005, 470 new, more fuel-efficient aircraft entered service with UK airlines saving at least 20 million tonnes of CO₂. UK aerospace manufacturers are investing in the cutting-edge technology for the even more fuel-efficient aircraft of the future.
- **Airports** - Airports work with airlines and air navigation service providers to deliver more efficient ground operations, including reducing the use of aircraft APUs and aircraft taxiing on a reduced number of engines. This complements broader on-airport work to reduce carbon emissions from energy use in buildings and by vehicles. Between 2010 and 2012, the combined carbon footprint of the UK's 18 biggest airports - representing 95% of passengers using UK airports - reduced by 3%, whilst passenger numbers increased by 5%.
- **Market based measures for carbon emissions** - Between 2012 and 2015, 6 million tonnes of CO₂ emissions reductions were made by UK airlines through the EU Emissions Trading System (ETS). SA members have also long been advocates of an industry wide carbon deal for aviation and fully support the new CORSIA agreement reached by the UN body ICAO.

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SUSTAINABLE AVIATION CO₂ ROAD-MAP

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Key Findings

- UK aviation's carbon efficiency can be doubled by 2050 relative to 2010
- UK aviation can accommodate significant demand growth through to 2050, including the effect of more runway capacity in the South East
- By 2050, CO₂ emissions are expected to be close to the 2005 levels recommended by the Committee on Climate Change
- Potential for further reductions in net CO₂ emissions to meet global aviation industry ambitions of carbon neutral growth by 2020 and halving of net CO₂ emissions by 2050 through the new ICAO carbon offset scheme for international aviation (CORSIA).



SUSTAINABLE AVIATION CO₂ ROAD-MAP

SUSTAINABLE AVIATION
Cleaner. Quieter. Smarter.



1

Set vision
Carbon neutral growth by 2020.
Halve CO₂ emissions by 2050.

2010 START

Challenge - how to accommodate expected aviation demand growth within national and global climate change objectives



3

Introduce new aircraft
UK airlines have already invested over £35 billion on 470 new aircraft since 2005 and have many more on order. These aircraft are at least 14% more fuel efficient than the aircraft they replace.

2

More efficient operations and airspace
Improve efficiency of flights by 9% by 2050.

4

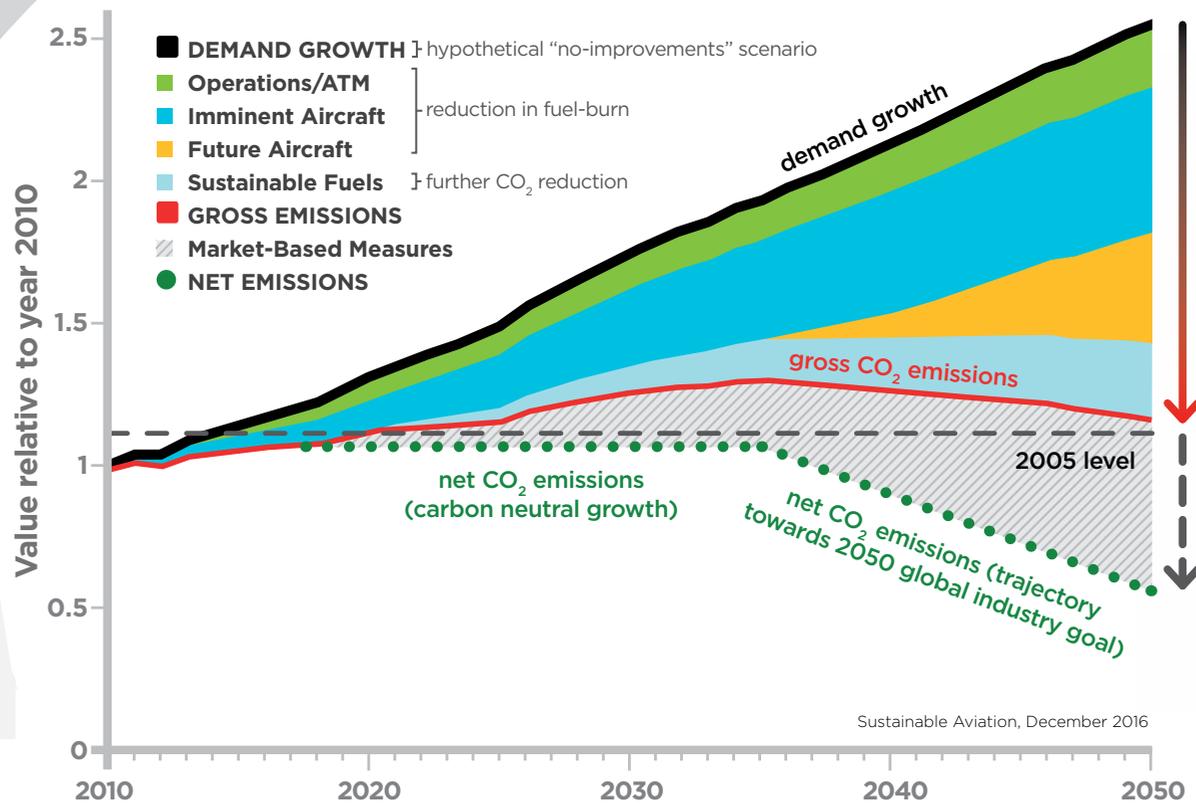
Design future aircraft
Aerospace manufacturers are investing heavily in the cutting edge technology that will ensure the next generation of aircraft and engines will be able to reduce CO₂ emissions further.

5

Start the transition to sustainable aviation fuel
Offers a 60% life cycle CO₂ saving compared to using fossil fuel.

6

Invest in global carbon markets
Supporting a halving of global aviation's net CO₂ emissions by 2050.



2050 FORECAST OPPORTUNITY

More than doubling UK aviation without a substantial increase in CO₂ emissions. Potential to halve net CO₂ emissions.