Environmental Initiatives
Airbus UK

Airbus supports the industry goals as defined by the Air Transport Action Group (ATAG):

1. Improving fuel efficiency by an average of 1.5% per year from 2009 to 2020
2. Stabilising emissions from 2020 with carbon-neutral growth
3. An aspirational goal to reduce net emissions from aviation by 50% by 2050 compared to 2005 levels

Since our first generation of commercial jets, fuel and CO₂ emissions have been cut by more than 80% per seat kilometre, NOx emissions by 90% and noise by 75%.

Key industry figures

-75% noise
-90% NOx emissions
-80% Fuel and CO₂ emissions per seat kilometre

≈ 10 billion tonnes of CO₂ avoided since 1990

$1 trillion investment in 12,200 new aircraft since 2009

2.1% Annual Fuel efficiency

Initiatives Carbon

- The global aviation industry has a 2% share of all human-induced CO₂ emissions
- Airbus R&D efforts focus on aircraft efficiency and the reduction of CO₂ emissions
- Since the 1960’s, CO₂ emissions per seat kilometre have been reduced by 80%
- Since 1990, over 10 billion tonnes of CO₂ have been avoided by way of new technology, operational efficiencies and infrastructural improvements
- Airbus is committed to halving net aviation carbon emissions by 2050
- **E-fan X** Airbus is in collaboration with Rolls Royce to develop a hybrid-electric flight demonstrator with the goal of achieving a zero emissions flight

“A new generation of cleaner technology, research and development, and our total respect for the planet lay the foundation for a more sustainable aviation industry.”

Guillaume Faury, CEO Airbus
**Initiatives: Noise**
- Aircraft today are 75% quieter than those of the 1960's

**Sharklets reduce drag**

**More aerodynamic**

**Quieter engines**

Airbrake operation

**Initiatives: Climate Change**
- Airbus has 27 satellites in orbit for climate change monitoring
- Innovative solutions helped Airbus reduce greenhouse gas emissions by 14% between 2006 and 2017
- Airbus satellites fight global warming from space by verifying sustainable forest management
- The first unmanned aircraft of its kind to fly in the stratosphere, Zephyr harnesses the sun's rays, running exclusively on solar power

**Initiatives: Waste**
- Together with Tarmac Aerospace, Airbus reuses or recycles up to 92% of its aircraft
- In 2005, Airbus was the first manufacturer to develop new environmental standards for end-of-life aircraft handling
- New production methods like 3D printing help deliver lighter parts that produce much less waste and preserve valuable resources

**Initiatives: Air Quality**
- More than 700 industrial products have already been replaced by alternatives free of hazardous substances
- VOC (volatile organic compounds) emissions were reduced by 60% between 2006 and 2017 and its products optimised for reuse or recycling
- For the Clean Sky Initiative, Airbus’ BLADE airliner tests wing characteristics in flight, aiming to reduce wing drag by 50% and CO₂ emissions by 5%

**Initiatives: Industrial**
- Airbus is developing a vision for the next decade to reduce the environmental impact of its industrial operations
- Airbus was the first aircraft manufacturer to be certified under ISO 14001 for all its sites, products and services
- Each year, Airbus collects, consolidates and reports on its environmental performance and makes it public

**Initiatives: Aviation Fuels**
- A proud supporter of sustainable aviation fuels, working hard to promote and develop its use
- In 2016, Airbus was the first aircraft manufacturer to offer the delivery of jets using sustainable aviation fuels