# FlyZero - Zero Emission Aircraft Strategy

The Department for Transport has published the Jet Zero Strategy to outline how the UK can contribute to zero emission aircraft by 2030. The strategy is supported by a £685 million Government funding for Aerospace Technology Institute to develop zero-carbon and ultra-low-emission aircraft technology.

## Key Findings

### Efficiency and low emission aircraft

- **Average efficiency improvements 2% per year (2017-2050)**
- **UK Government’s 5-year strategy review**
- **Voluntary reporting, benefits or how the UK can contribute to zero emission fuel by 2025**
- **UK Government Funding for Aerospace Technology Institute to support the development of zero-emission and low-emission aircraft technology.**

### Sustainable Aviation Fuel

- **2030: Sustainable Aviation Fuel Mandate (10%) implemented**
- **2022: Consulting on mandating SAF from 2025**
- **2025: Commit to a SAF mandate as soon as possible.**

### Demand management

- **Necessary milestone that is not included in the Government’s aviation strategy to date.**
- **Necessary milestone that is included in the Government’s aviation strategy, but in this timeline, we suggest either an earlier date, or a specific date where their strategy has no date.**

### Key

- **Planning and decisions**
  - Research, consultations, pilot schemes
  - Decisions: Consultation responses, concrete policy plans
  - Legislation: Legislation, updating regulations

- **Implementation**
  - Legislation into force, funding starts, deployment starts

- **Outcomes**
  - Cross-cutting: Changes in flight efficiency and fuel consumption, flight operations, airport capacity, airport emissions, aviation demand, passenger travel, aviation economics

## Timeline

### Planning and decisions

<table>
<thead>
<tr>
<th>Year</th>
<th>2020</th>
<th>H1 2022</th>
<th>H2 2022</th>
<th>2023</th>
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### Cross-cutting

- Department for Transport (UK) Zero Emission (UKZER) coordination
- UK Government’s 5-year strategy review

### Efficiency and low emission aircraft

- Average efficiency improvements 2% per year (2017-2050)
- Voluntary reporting, benefits or how the UK can contribute to zero emission fuel by 2025
- UK Government Funding for Aerospace Technology Institute to support the development of zero-emission and low-emission aircraft technology.

### Sustainable Aviation Fuel

- 2030: Sustainable Aviation Fuel Mandate (10%) implemented
- 2022: Consulting on mandating SAF from 2025
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**Figure 9.16 Policy implementation timeline**

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**Key**

- Planning and decisions: Research, consultations, pilot schemes
- Decisions: Consultation responses, concrete policy plans
- Legislation: Legislation, updating regulations
- Implementation: Legislation into force, funding starts, deployment starts
- Aviation Strategy: Outcomes

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**Notes:**

- Track seat occupancy rates and consider regulating aircraft occupancy standards if the trends do not return to pre-pandemic levels in the next 12 months.
- First phase of the voluntary offsetting participation in CORSIA. CORSIA mandates SAF specific review by 2030 and use this to confirm a SAF trajectory to 2050.
- Use the ICAO general assembly to strengthen CORSIA's voluntary pilot phase.
- Commit to a SAF mandate as soon as possible. CORSIA's second phase is offered by 2024.
- The demand strategy should include a commitment to preventing any net airport expansion.