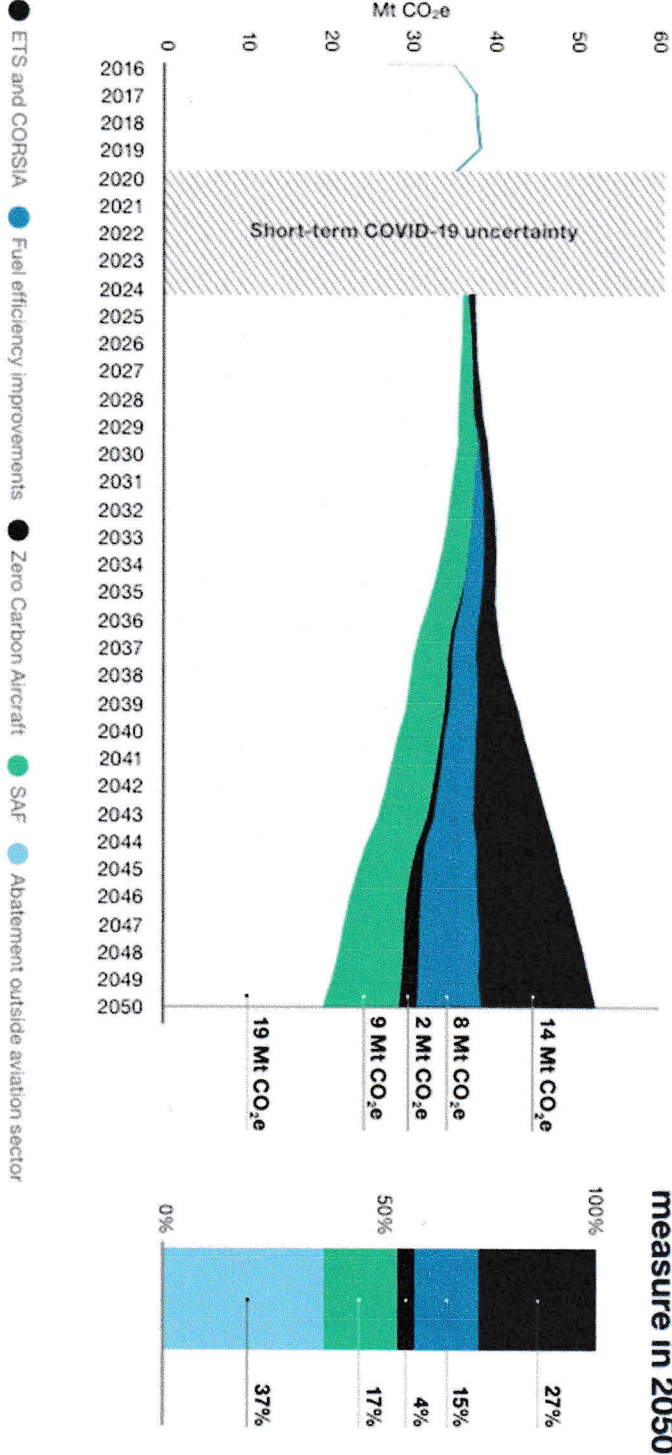


Our High Ambition Scenario



Self Zero - One for Or (2023)

Delivered in partnership case study

Sustainable Aviation

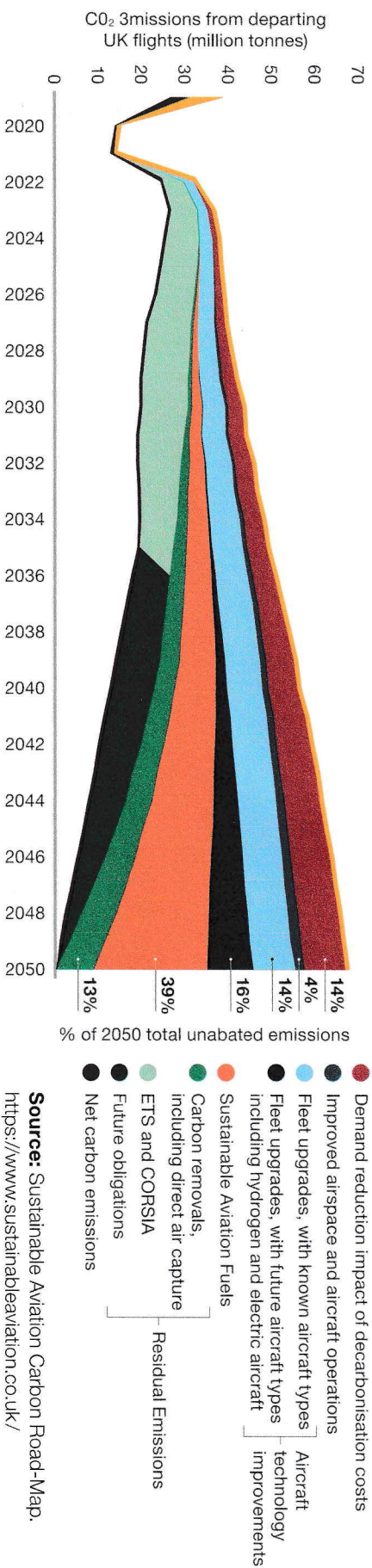
Carbon Road-Map

In April, Sustainable Aviation, a coalition of UK airlines, airports, aerospace manufacturers, air navigation service providers, SAF producers and other key business partners, published their updated decarbonisation road-map. The updated road-map confirms that UK aviation can continue to grow whilst meeting its commitment to net zero carbon emissions by 2050, reflecting advances in sustainable aviation technology already delivered in the UK which will accelerate the industry's transition to net zero around the world.

The road-map forecasts UK aviation emissions to reach around 67 MtCO₂e by 2050, without any intervention. Their modelling suggests around 40% of these emissions could be removed using SAF, 33% by operational and fleet efficiency improvements, including moving to zero emission aircraft, 14% by reduced demand due to the additional costs of decarbonisation measures, and the remaining 13% of residual emissions by greenhouse gas removals (GGRs) outside of the aviation sector.

These measures are in line with those considered in our Jet Zero Strategy. Unsurprisingly, given the complexity of decarbonising the aviation sector and high levels of uncertainty, the contributions of individual measures do not align exactly with those implied by our modelling. Under the Jet Zero Strategy High Ambition scenario, 17% of the required emission reductions in 2050 come from SAF, 15% from fuel efficiency improvements, 4% from zero carbon aircraft, 27% from ETS and CORSIA and 37% from abatement outside the sector. We will continue to work with industry to identify the challenges and barriers we need to work together to overcome.

Sustainable Aviation Carbon Road-Map: A path to Net Zero



Source: Sustainable Aviation Carbon Road-Map.
<https://www.sustainableaviation.co.uk/>