

Green fuel's role in the future of aviation

The first transatlantic flight powered by *Sustainable Aviation Fuel (SAF)*, made from sources like crops, household waste and cooking oil, highlights its potential use in a greener aviation industry

PROJECTED ANNUAL AVIATION CO₂ EMISSIONS

BY 2050 (million tonnes, Mt)*

Nov 28, 2023:

Virgin Atlantic

Boeing 787 flies from London to New York, fuelled by **100% SAF**

2,285 Mt

Emissions if nothing is done

Emissions with applied innovations

Remaining emissions: **705 Mt**

Reduction of CO₂ from using electric/hydrogen aircraft: **80 Mt**

Reduction from fuel efficiency gains: **975 Mt**

Reduction from use of SAF fuels: **525 Mt**

SAF still generates CO₂ but emissions can be up to 70% lower, depending on production methods

SAF cannot be made in large enough quantities to completely replace aviation fuel