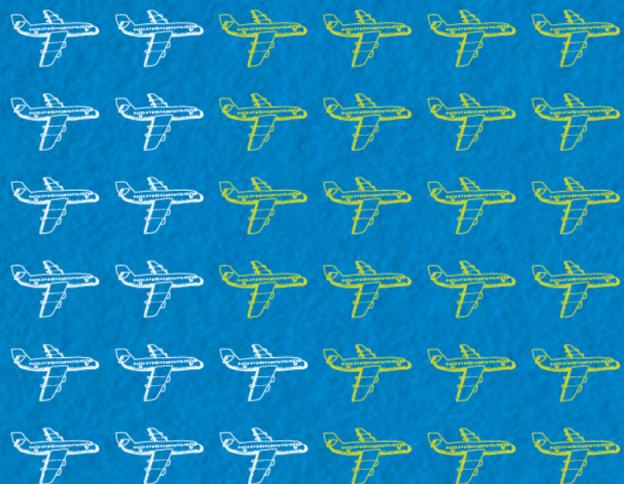


ACCELERATING THE REDUCTION OF CO₂ EMISSIONS IN THE SKY

IN THE POST COVID WORLD

39,000+

new planes to enter service by 2040¹



76%

of the new planes to enter service are single-aisle planes for short-mid haul flights²

Unlike the B787 and A350s, Single-aisle planes are made mostly out of METAL³

WHAT IF WE COULD MAKE...



50%

of all new single-aisle planes with PEEK composites?

60% LIGHTER

PEEK composites can replace metal parts and be up to 60% lighter with higher specific strength⁶

53M **TONNE**

Potential saving of 53 million tonnes of CO₂* in 15 years if all of these new single-aisle planes could be made from 50% PEEK composites⁴

*Approx 2% of CORSIA requirement

CO₂
REDUCTION

2.6 billion CO₂ reduction required in the aviation industry by CORSIA* between 2021 -2035⁵

*Carbon Offsetting and Reduction Scheme for International Aviation

Clean Sky 2
VICTREX IS PART OF THE CLEAN SKY 2 PROGRAM, PARTNERING WITH MAJOR AIRFRAMER TO CO-DEVELOP LARGE PRIMARY/SECONDARY STRUCTURE WITH PEEK COMPOSITES.



MINUTES VS. HOURS*

PEEK composites also speeds-up the parts manufacturing process helping airframers reduce backlogs⁷

*Thermoplastics vs. Thermoset annealing process time



>2M TONNES CO₂ SAVED with VICTREX PEEK solutions so far (2003 -)

VICTREX AEROSPACE SOLUTIONS



References

1,2 – Airbus Global Market Forecast 2021-2040

3 – About 85-95%, source:

<https://www.intechopen.com/books/aerospace-engineering/the-evolution-of-the-composite-fuselage-a-manufacturing-perspective>

4 – Based on Victrex calculation, details can be provided upon request

5 – IATA Fact Sheet "Climate Change & CORSIA" May 2018

6,7 – Victrex source, details can be provided upon request