



SUSTAINABILITY AWARD: NET-ZERO WINNER: TISICS Metal Composites

TISICS is leading the charge in decarbonising the aerospace sector with its groundbreaking work in advanced metal composites.

These innovations bring about lighter, more efficient aircraft and spacecraft components, accelerating the transition to Net Zero.

TISICS composites deliver up to 50% mass reduction on existing aircraft components and 70% on future system designs. An estimated 9 million tonnes of carbon dioxide emissions would be saved annually applying this innovation across aircraft landing gear alone.

This platform technology has wide applicability in aircraft systems, from landing gear to wings, engines, future liquid hydrogen tanks and truss structures for future blended wing aircraft.

Key to achieving aviation's decarbonisation goal is introduction of innovations that deliver CO₂ reductions on existing aircraft platforms ahead of large-scale uptake of sustainable aviation fuels and future zero emission architectures.

TISICS is driving lightweight systems through "dropin" innovation, enabling significant cumulative CO_2 savings by the early 2030s.

Website: www.tisics.co.uk



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