

INNOVATION IN COMPOSITE MATERIALS AWARD

WINNER: TISICS Metal Composites

TISICS is leading a renaissance in materials and manufacturing to make zero emission flight a reality, recently demonstrating the world's largest metal composite for civil aircraft: LightLand.

Reducing the environmental impact of aircraft in a manner that is sustainable and cost-effective for commercial operators, LightLand represents a powerful solution for decarbonising aviation.

Achieving double the specific stiffness of 300M steel at 50% mass, decreasing material waste by 85% and reducing operator ownership cost. Metal composites offer step-change over existing metallics technology and can extend the application of CRFP owing to excellent compatibility.

The innovation is set to reduce CO₂ emissions by 9 million tonnes per year. "Drop-in" replacement into existing systems enables significant cumulative CO₂ savings by the early 2030s.

Providing significant environmental and financial advantages to the aerospace industry and driving the development of a cleaner, greener sector as it moves towards its goal of NetZero by 2050.

Website: www.tisics.co.uk



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