

Sustainability comes to airfreight

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Net Zero pathway: Three majors pillars to decarbonisation

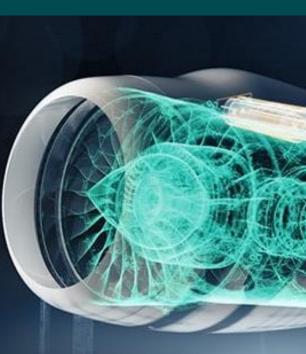
We play a vital role in the decarbonisation of our industry

The transition to net zero represents a tremendous opportunity for Rolls-Royce Step change in efficiency of gas turbines

Leading SAF demonstration and adoption



Developing third generation technologies



Enhanced integration at platform level

Manufacturing, Digital and Services technologies





SAF Facts and Figures

500m tonnes of

fuel per year is expected to be consumed by our industry by 2050

130K tonnes of

SAF is expected to be produced in 2022

several thousand SAF manufacturing facilities

will be needed in order to meet this demand by 2050

Currently <100 exist

5 airports

currently have regular SAF distribution but this number is growing

~5% of airports handle

~90% of flights
SAF availability at a small number of airports could cover a large share of demand

more and more countries

on in-country fuel uplifts
This will help to stimulate the SAF
economy and drive demand



Key SAF activities and targets



UltraFan demo



MRTT



747 FTB



ECLIF



Engine dev & pass-off



All our in-production Commercial jet engines are in the process to be proven compatible with 100% SAF

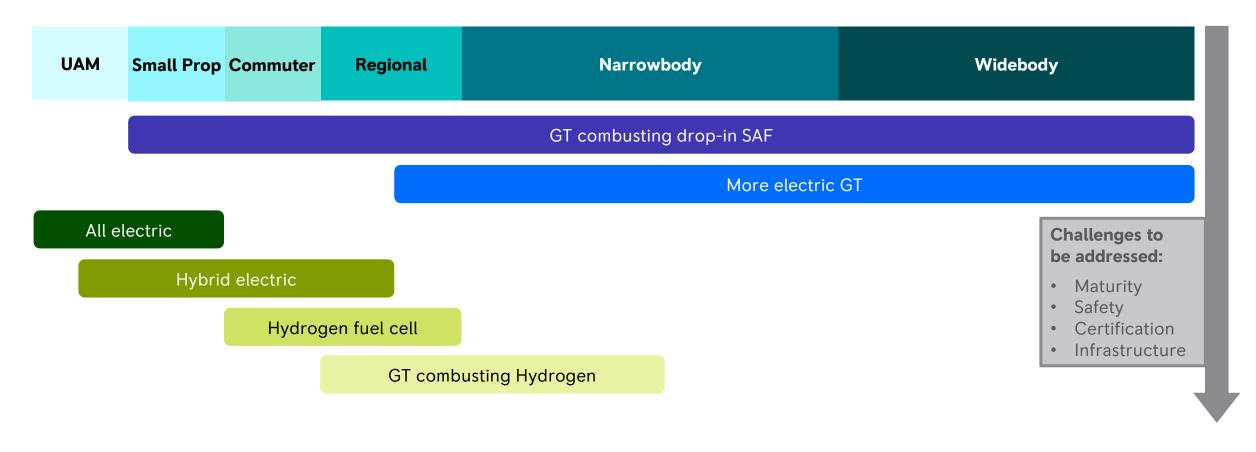
SMR & PtL

By 2023, 10% of the fuel we use in Civil Aero test and development will be replaced by SAF





R&D underway on all potential pathways to decarbonise aviation



Electric powered aircraft already feasible for very short ranges, offering zero carbon and new mobility models SAF and GT (gas turbine) will be required to power most applications, particularly larger, longer-range aircraft, without more radical designs Novel solutions including hydrogen could offer zero carbon solution for shorter range operations





netzers