

AVIATION HAS COMMITTED TO ACHIEVING NET ZERO

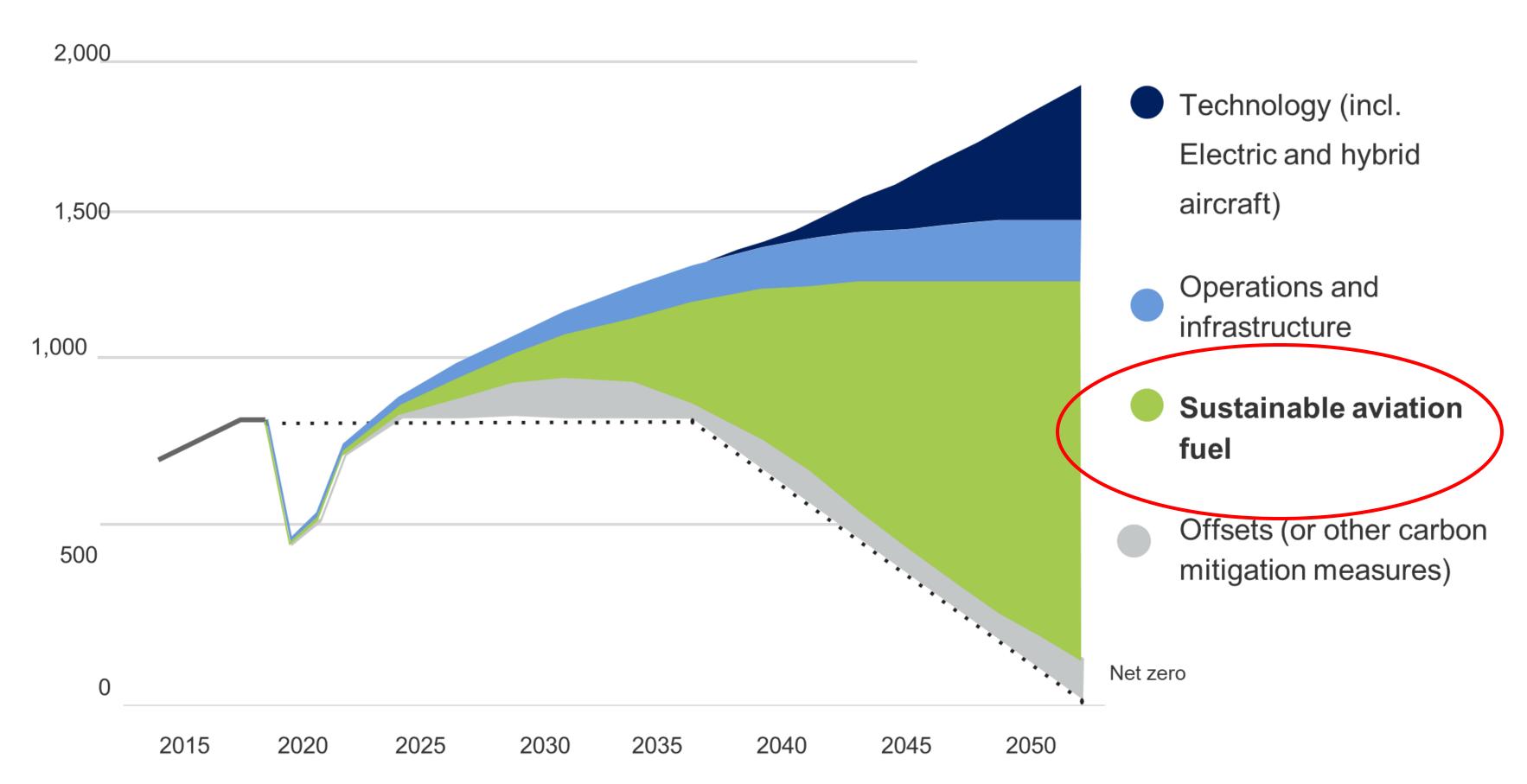
How are we doing and how will we get there

- Net zero is ambitious, we are making progress but need to accelerate lots of projects pre FID
- Energy transition is about sustainability, supply security, and affordability
- What do we need to deliver
 - Supply material low-cost feedstock pools, production technology scale up
 - Demand mandated and voluntary
 - Regulatory policy and frameworks
 - Investment \$
- All solutions/portfolio approach, partnership, pragmatism are needed the 3 Ps
- Biomass residues, AtJ and specifically NPT's Refnova technology can play a material role
- UK project Speedbird is a great showcase will deliver GHG reduction equivalent to 2% mandate

AVIATION HAS COMMITTED TO ACHIEVING NET ZERO

And using Sustainable Aviation Fuel is critical to achieve its 2050 targets

Aviation CO₂ emissions trajectory and reductions by measure (Mt CO₂e)



Governments, airlines and regulatory bodies have committed to Net Zero 2050

SAF will be the leading solution; as 'drop-in' fuel it used in existing aviation infrastructure

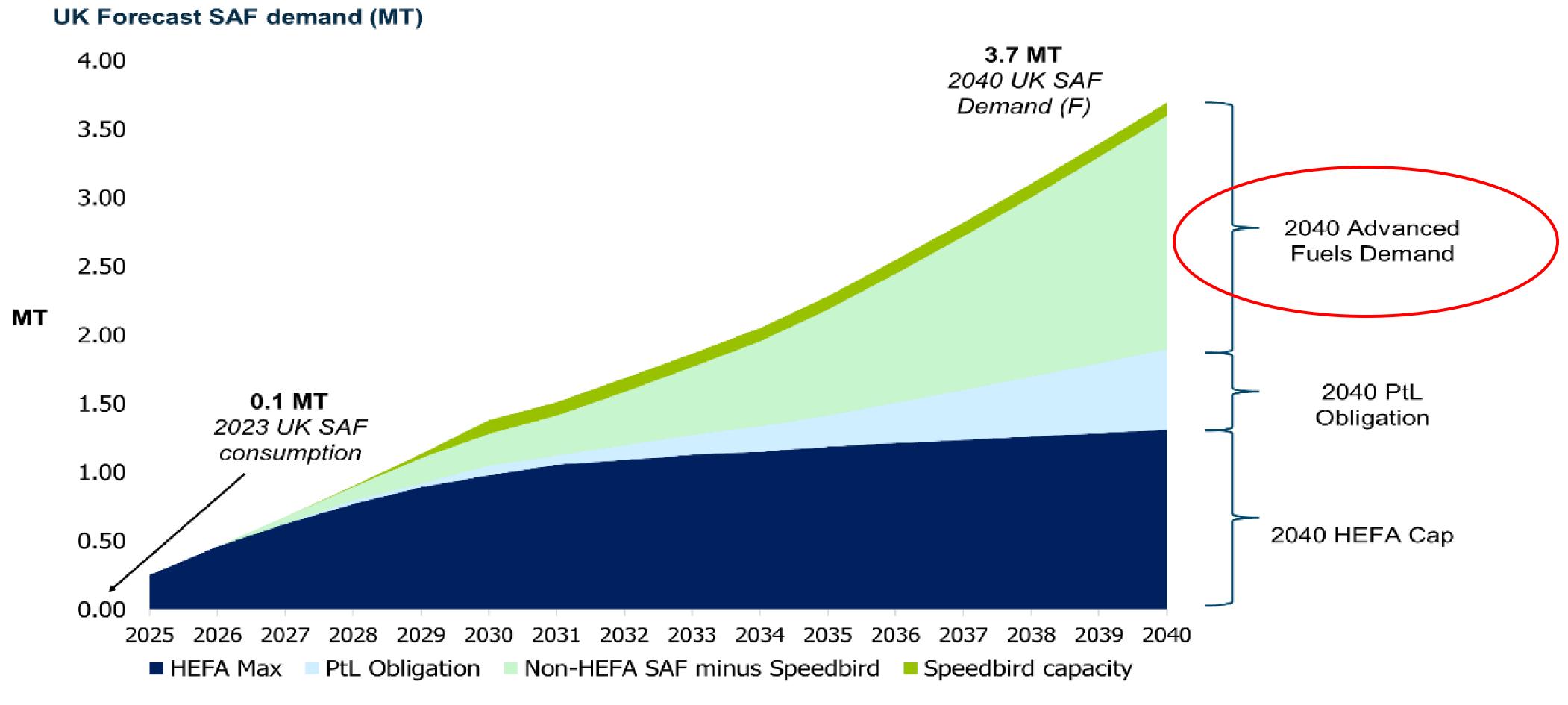
Electrification and Hydrogen fuel are nascent and are not expected to materially contribute to aviation net zero by 2050

1.8 billion tons p/a of carbon must be abated in the aviation sector by 2050 to achieve Net Zero



AVIATION HAS COMMITTED TO ACHIEVING NET ZERO - UK

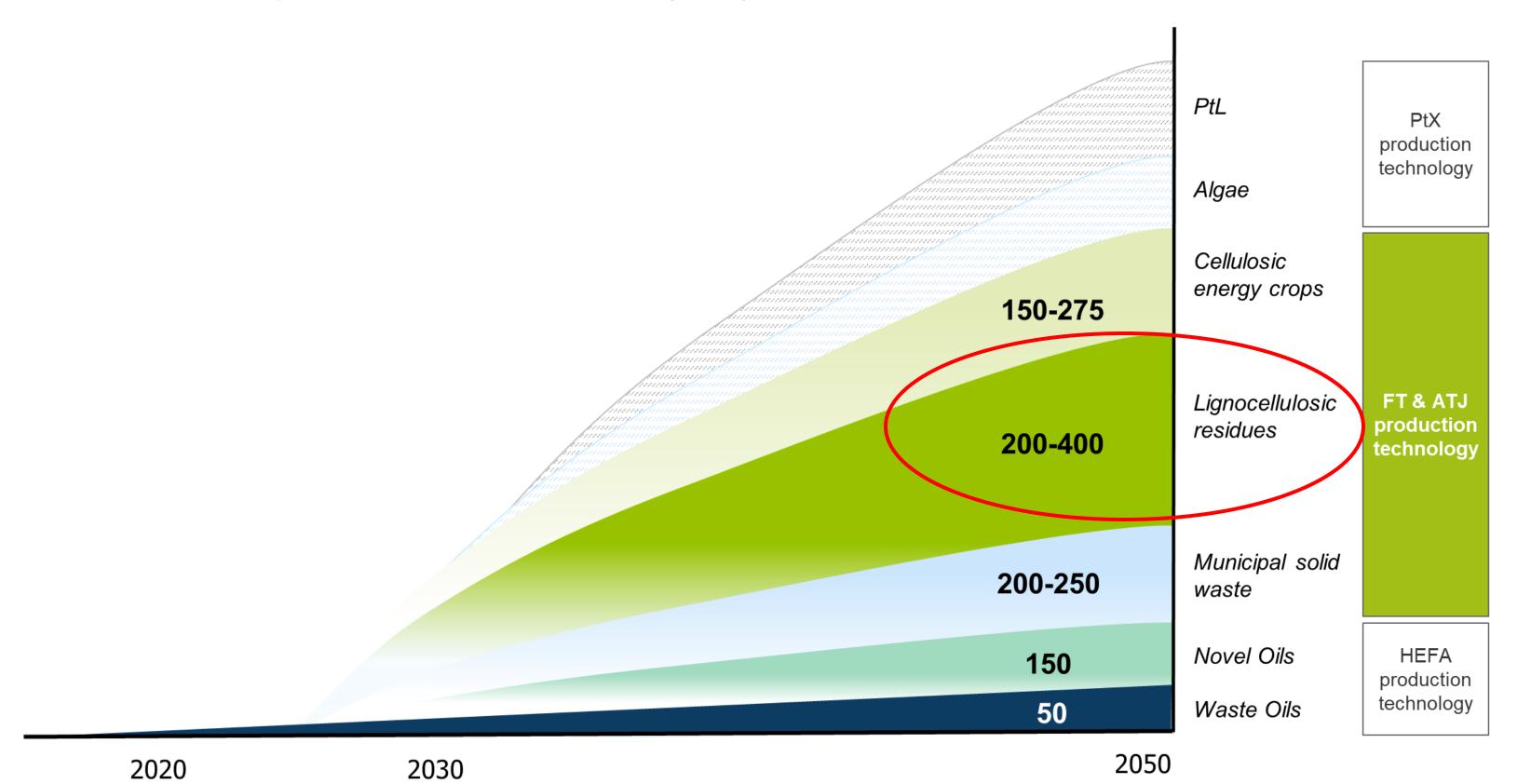
And using Advanced Sustainable Aviation Fuel is critical to achieve its 2050 targets



ADVANCED FUELS FROM BIOMASS RESIDUES ARE CRITICAL TO SCALING SAF DEMAND

Lignocellulosic feedstock-based production technologies such as REFNOVA are critical to scaling SAF long-term

Global raw material potential for renewable fuels (Mtoe)



Lignocellulosic feedstock advantages

- Does not compete for food crops
- Does not require land-use change
- Uses biomass residue from existing agriculture and forestry processes
- Less risk of contaminants and variation compared to MSW
- Ready supply availability
- Additional source of income for rural/less developed farming communities

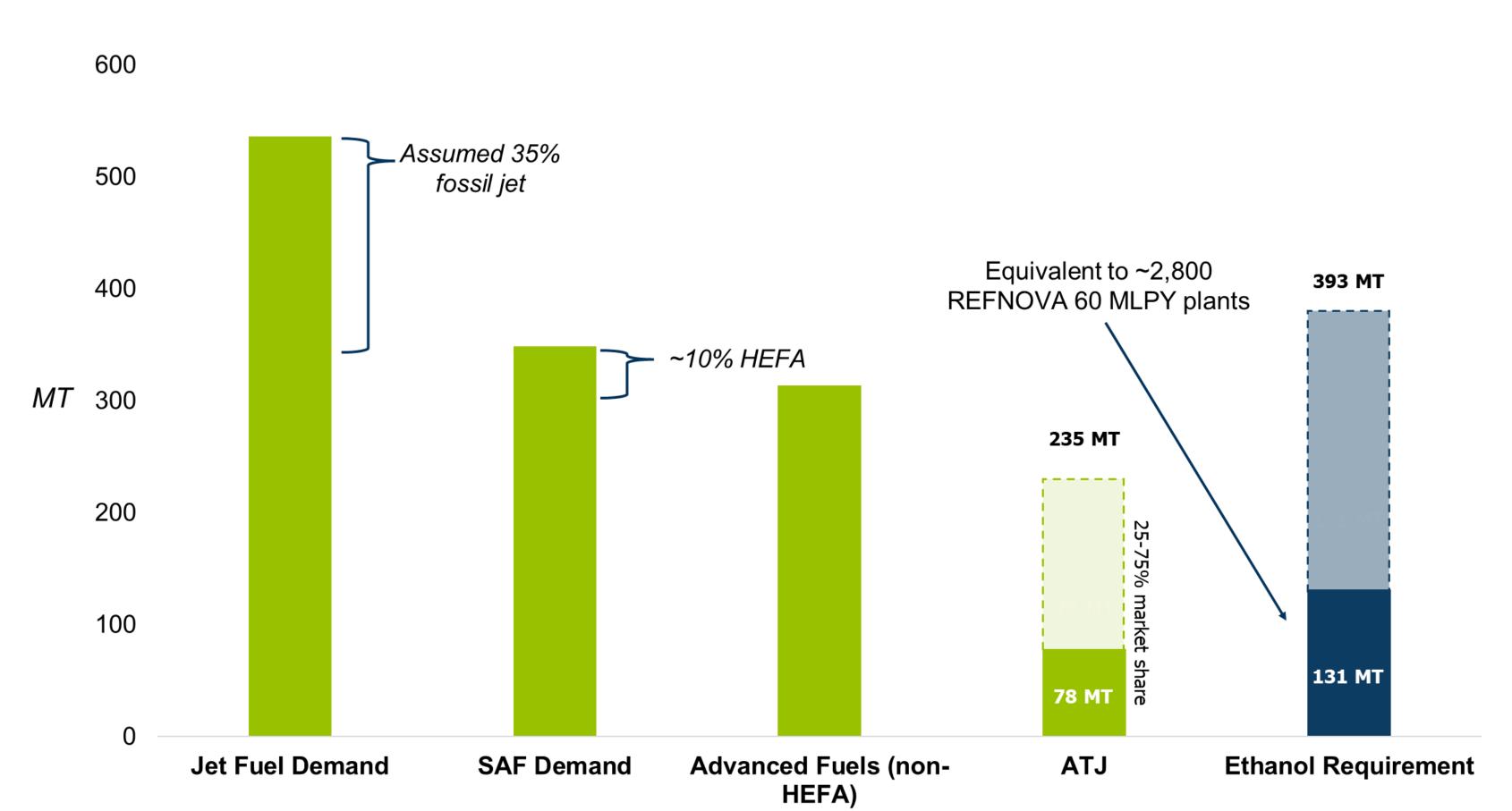
Source: Company analysis based on WEF Clean Skies for Tomorrow and other sources



ALCOHOL-TO-JET WILL BE A SIGNIFICANT SHARE OF THE SAF MARKET

2G ethanol is a critical pre-cursor to the AtJ pathway

Total Global Addressable Market Forecast - 2050



Market policies



UK - SAF Mandate from 2025



EU - SAF Mandate from 2025



North America - Regulatory incentives & credits promoting SAF usage



APAC - SAF targets emerging, eg India, Singapore Japan







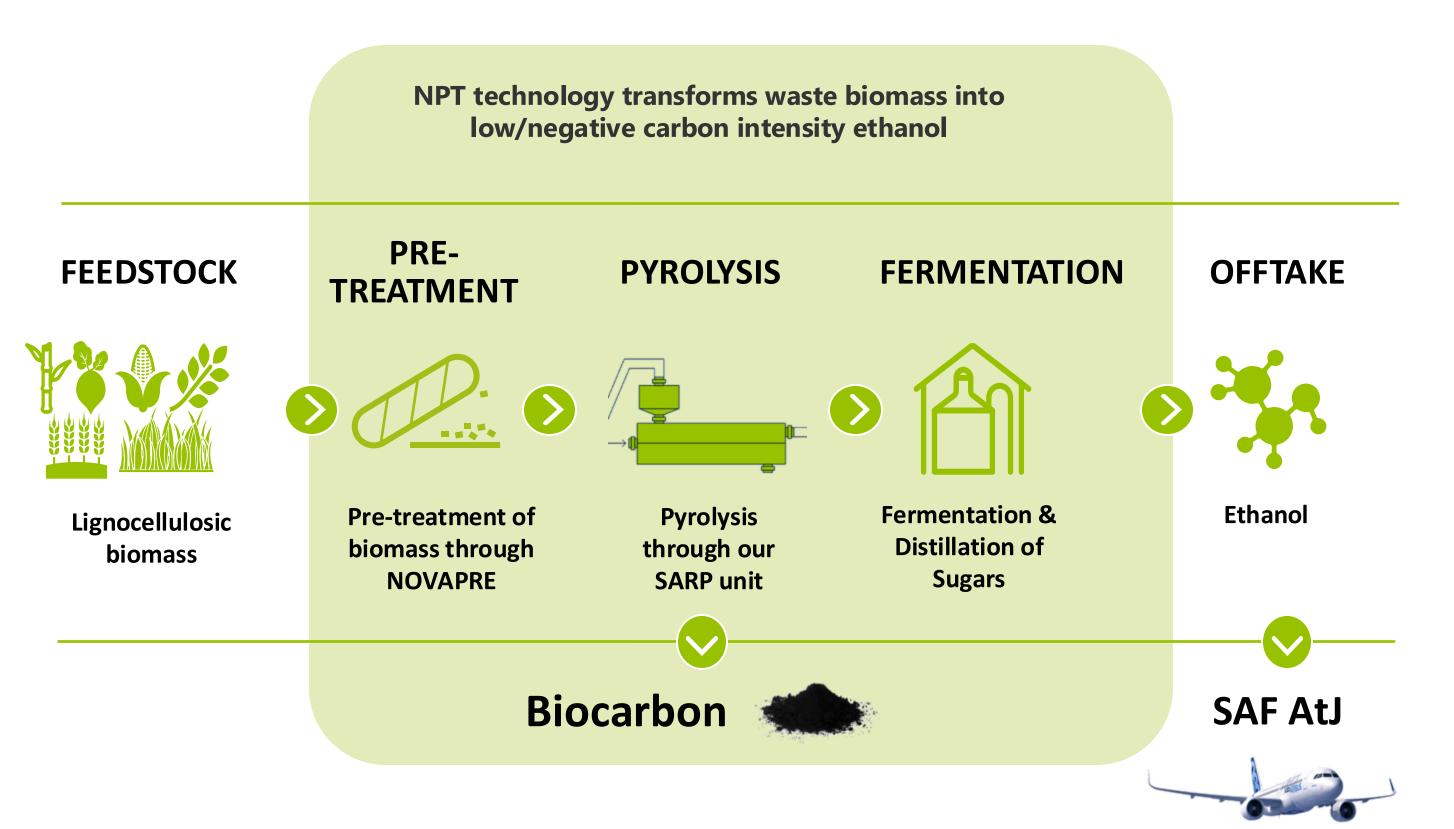


Brazil – SAF Mandate



REFNOVA®

REFNOVA® is a novel patented technology that simplifies ethanol production using heat alone to convert woody and agricultural plant residues into two distinct co-products: Sustainable sugars and Biocarbon



- Simplified process that avoids the use of enzymes; high-profile industry failures have been due to enzyme requirement during pre-processing
- Secondary revenue stream through biocarbon; other technologies struggle to valorise lignin into a commercial product
- Greater emissions reduction potential than market competitors due to sequestration potential of biochar
- Feedstock flexibility, with *ability to process multiple types of lignocellulosic residue*
- Progressing with Technical Readiness:
 >500 operating hours of our patented SARP® unit and >1000 on our pre-treatment units
- Scale 'up' then 'out' through modular, in-line process, significantly reducing scale risk and time to market



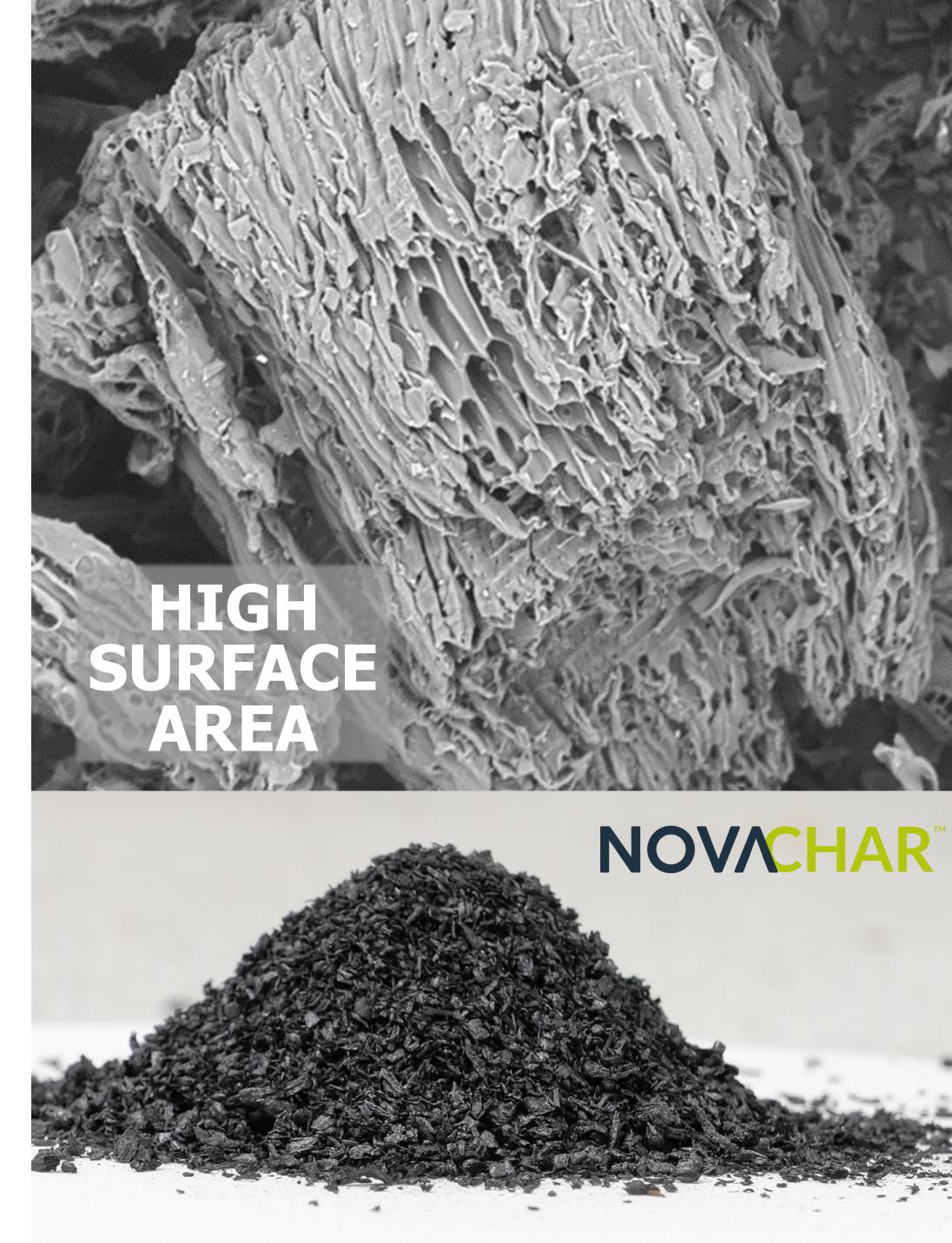
BIOCARBON

NPT's REFNOVA® process technology produces Biocarbon as a co-product alongside the cellulosic 2G ethanol. This Biocarbon has many applications as well as being a form of CO2 sequestration

1 tonne of carbon in **NOVA**CHAR = 3.6 tonnes CO_2 (before process emissions)

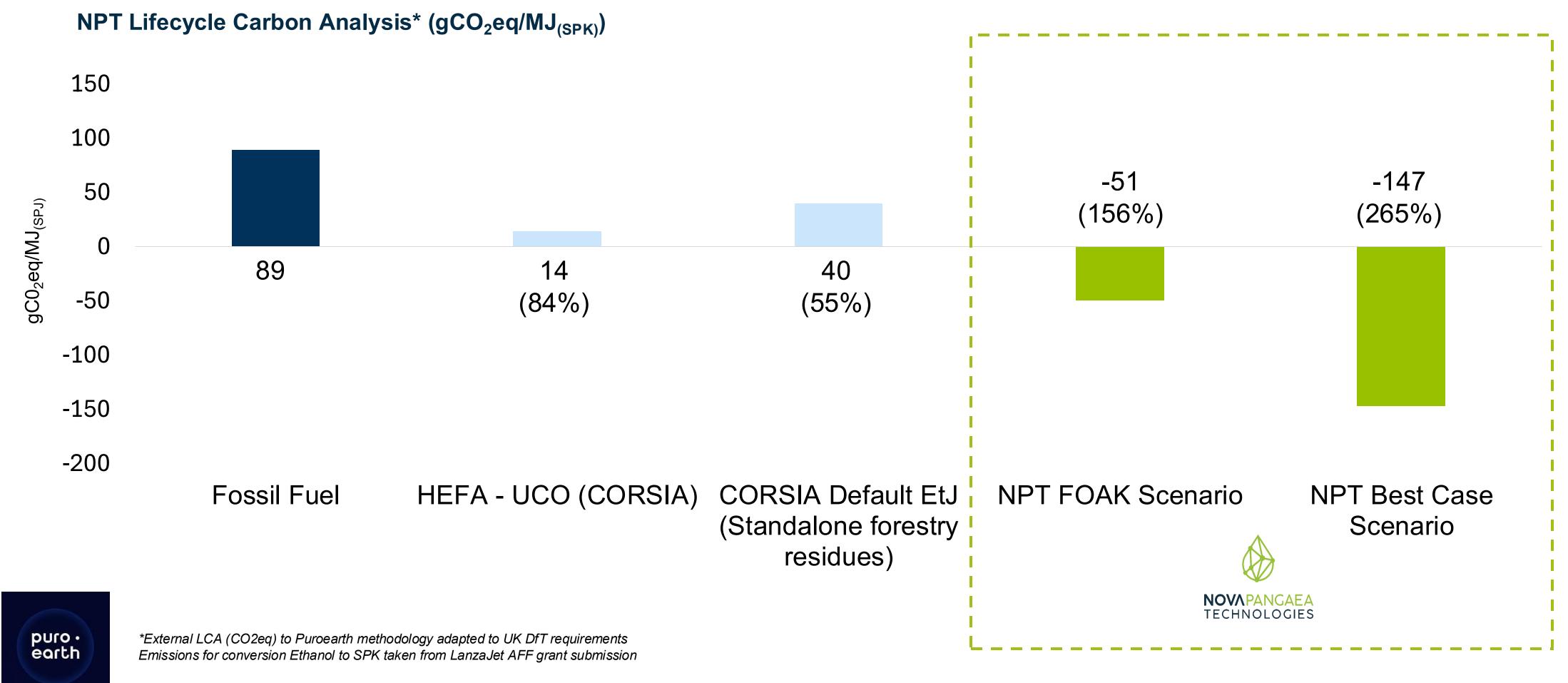
CARBON REMAINS FIXED – CO₂ is sequestered – **Net negative**

- Soil enhancement
 Water retention and reduced fertiliser use
- Filtration
 Water and air purification
- As a filler in construction
 Cement and asphalt
- Plastics and industrial applications
 As a filler/ colourant/ improved mechanical strength



REFNOVA® DELIVERING NET NEGATIVE CARBON INTENSITY

The net negative emissions which can be monetised through SAF, or via carbon credits





UK PROJECT SPEEDBIRD IS A SHOWCASE FOR DEPLOYMENT

IAG flagship commercial project, delivering over 100 ml pa of fuel into the UK market by 2030

Project Speedbird Overview



UK Advanced Fuels Fund



Offtake agreement



Offtake agreement

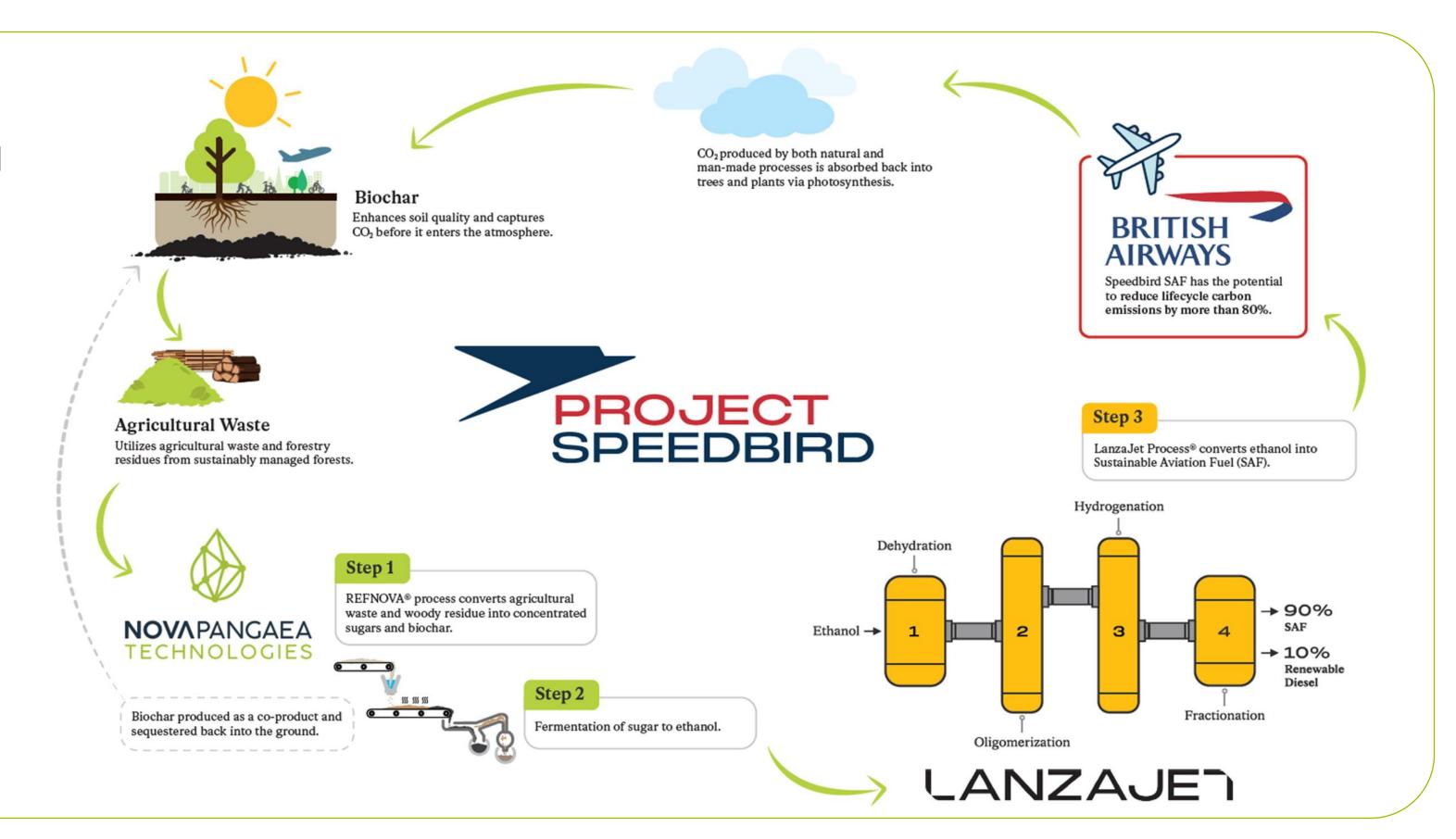




Feedstock agreement



Site selection/terms



190 ML PA

2G ethanol produced

REFNOVA Facilities

Ca 500,000

tonnes CO₂ net emissions reductions p/a over 50,000

BA domestic flights p/a equivalent







SUMMARY



Carbon negative

2-3 x better carbon intensity than other SAFs Key to delivering UK advanced SAF mandate ramp up



Feedstock availability

Uses non crop biomass residues Flexible to different feedstock types



Patented, unique technology

SARP® unit fine tuned at demo plant since 2019



UK Speedbird

Strategic partners in place to stand up end to end value chain Modular and scalable



NOVA PANGAEA TECHNOLOGIES

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otherwise of acquiring shares in the Company and should take its own professional advice.

any shares in the Company or any interest in it.

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