

# MICROSOFT INVESTS \$50 MILLION IN ALCOHOL-TO-JET FUEL BIOREFINERY

Relevant for: Science & Technology | Topic: Science and Technology- developments and their applications and effects in everyday life

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Microsoft is investing \$50million in a LanzaJet facility in Georgia that will produce jet fuel from ethanol next year, LanzaJet said.

The airline industry is considered one of the hardest to decarbonize. Renewable aviation fuel accounted for less than 0.1% of current global jet fuel demand of about 330 million tonnes in 2019, investment bank Jefferies said last year. Governments and investors are trying to boost incentives to produce lower-carbon emitting jet fuel.

LanzaJet, based in Chicago, said it has nearly completed on-site engineering at its Freedom Pines Fuels Biorefinery, with plans to start producing 10 million gallons of sustainable aviation fuel (SAF) and renewable diesel per year from sustainable ethanol, including from waste-based feed stocks, in 2023.

Oil majors, airlines and other petroleum trading companies including Suncor Energy Inc., British Airways and Shell are also funding the company.

The White House said last year that it wants to lower aviation emissions by 20% by 2030, as airlines face pressure from environmental groups to lower their carbon footprint.

The Biden Administration has touted tax credits for production of sustainable jet fuel as part of its Build Back Better legislation, which is currently stalled in Congress.

The European Union is aiming to increase the amount of SAF blended in petroleum jet fuel to 63% by 2050.

Microsoft created the Climate Innovation Fund in 2020 to invest \$1 billion over the next four years to speed up the development of carbon removal technology.

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The chips are Intel's first effort in many years in the market and will take on leader Nvidia, which had graphics chips sales of \$9.8 billion in its most recent fiscal year, a 29% increase.

The concept car uses less than 10 kWh of electrical energy to travel 100 km. When translated into fossil-fuel consumption, this is around 1 litre per 100 km.

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