

# FLIGHT PATHS

A wide variety of fuel feedstocks and processes are aiming for the aerospace market

COMPANY	FEEDSTOCK	JET FUEL INPUT	TECHNOLOGY	PARTNERS
<b>ENERGY CROP FIRMS</b>				
Agrisoma Biosciences	Carinata	Vegetable oil	HEFA	UOP
SG Biofuels	Hybrid jatropha	Vegetable oil	HEFA	Bunge, Flint Hills Resources
AltAir Fuels	Camelina	Vegetable oil	HEFA	UOP, Boeing
<b>BIOFUELS FIRMS</b>				
Amyris	Cane sugar	Biofarnesene	Direct fermentation	Total
Gevo	Corn sugar, cellulose	Isobutyl alcohol	Alcohol-to-jet	U.S. Air Force Research Lab
KiOR	Biomass	Hydrocarbon	Pyrolysis-to-jet	Hunt Refining
Lanzatech	Waste gas, lignin	Ethanol	Alcohol-to-jet	Swedish Biofuels, Boeing, Virgin Atlantic
Sapphire Energy	Sunlight, CO <sub>2</sub>	Algal oil	HEFA	Boeing
Solazyme	Cane sugar	Algal oil	HEFA	Dynamic Fuels, United, U.S. Navy
Virent	Sugar, cellulose	Hydrocarbon	Unknown	Shell, U.S. Department of Energy
<b>REFINING FIRMS</b>				
Neste Oil	Camelina, jatropha, animal fat	Vegetable oil, fats	HEFA	Lufthansa
Rentech	Forest waste	Synthesis gas	Fischer-Tropsch	Ontario government

**HEFA** = hydrotreated esters and fatty acids. **SOURCES:** Company information, UOP