NASA finds aircraft biofuels reducing pollution emissions by up to 70%

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Previously, the industry was not known as the industry that discharged 800 million tons of CO2 into the atmosphere, which contributes to the risk of climate change globally. Recognizing this situation, NASA recently partnered with researchers in Germany and Canada to solve this problem with a new invention that uses biofuels for jet-operated aircraft. At the same time, this fuel will reduce pollution emissions by 70% as well as reduce the formation of cloud trails that condense each position that jets fly over.

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To draw that conclusion, NASA has used the new biofuel into the DC-8, derived from California's Armstrong Aviation Center as well as running with different types of fuels. In it, there is a set of three aircraft, flying at a distance of nearly 250m from the DC-8 to extract exhaust gas, collect samples for analysis, and compare problems.

It is known that this biofuel is an ester mixture of electrolyte fatty acids produced from camelina oil. The results of the initial comparative analysis show that this fuel has reduced pollution emissions to 50-70%.

Previously, jet engines were evaluated as hands-on to make climate change. However, it doesn't just stop there. When the engine emits emissions, the engine dust particles will combine with the vapor in the atmosphere, at such a height, the mixture will condense into ice crystals. Many ice crystals merge together into white ribbons that appear after each jet's flight path. And this tape takes a while to dissipate all that crystal.

Some of the remaining, non-dissolved ice crystals will enter the atmosphere, forming dense spiral clouds like shields, which will completely block the heat down and the upper atmosphere. This will cause the ground temperature to increase by 10 degrees Celsius, causing localized global warming.

If we have a way to prevent ice crystals from surviving in the atmosphere, these twisted clouds will be less formed, contributing to global warming and climate change mitigation.