

Up Up and Away – Biofuels and Aviation (BANZ Bioflash articles)

The most recent articles that have been presented in this section of the Bioflash are as follows:

Article	Bioflash Date
<ul style="list-style-type: none"> • MSW to jet fuel - Pike Research estimates the theoretical potential for biofuels production from global waste to be around 35bn gal/year today. This would more than double current production of biofuels worldwide while extracting untapped value from nearly 1.5 billion tons of waste. Municipal solid waste, or MSW), is a rising star in the fast-emerging advanced biofuels landscape. Projects in development today aim to produce the spectrum of alternative fuels, but among them renewable jet fuel remains the biggest prize. More here. 	4 April 2013
<ul style="list-style-type: none"> • KLM Royal Dutch Airlines flies biofuel flight between Amsterdam and New York - In the Netherlands, KLM Royal Dutch Airlines flew the first in a series of biofuel-powered flights between Amsterdam and New York. The flight of the 777-200 was supplied with biofuel by SkyNRG. KLM Royal Dutch Airlines has partnered with Schiphol Group, Delta Air Lines, and the Port Authority of New York to complete the plans for the 25-week pilot program. 	

For articles from previous Bioflashes see below:

<ul style="list-style-type: none"> • <i>Biofuel – the New Wizard of Aus – Smart new INFOGRAPHIC positions Australia at the heart of a biofuels future – more here.</i> 	21 Feb 2013
<ul style="list-style-type: none"> • National Research Council of Canada Releases Biofuel Flight Results - The first 100-percent civil biofuel flight, conducted on October 29 in a Falcon 20, showed that the fuel is cleaner and just as efficient as conventional jet-A, according to results released by the National Research Council (NRC) of Canada. More here. 	
<ul style="list-style-type: none"> • Fiscal Deal a boost for biofuels - Incentives for biofuel development in the new "fiscal cliff" bill -- also known as the "American Taxpayer Relief Act of 2012" -- could help the industry to move forward in 2013, advocates say. According to the Renewable Fuels Association, provisions in the bill should lead to "a year of growth and milestones for the advanced ethanol industry." More here. 	
<ul style="list-style-type: none"> • International Civil Aviation Organisation Council President Praises Qatar Aviation Biofuel Project - Pilot Plant Could Produce Nearly 400,000 Gallons Of Sustainable Fuel. More here. 	
<ul style="list-style-type: none"> • Boeing and Commercial Aircraft Corp. of China (COMAC) announces research project to convert waste cooking oil for use as jet fuel – (Oct 2012) - The focus of the project for the first year will be to demonstrate the feasibility of achieving significant cost reduction in converting gutter oils and other waste oils into jet fuel through improvement of conversion efficiency and associated technology. 	20 Nov 2012
<ul style="list-style-type: none"> • China’s biggest fuel producer, China Petroleum & Chemical Corp (Sinopec), signed a deal with Airbus SAS to develop green jet biofuels – The fuels will come into use nationwide and Airbus will also help China set up an airworthiness qualification for renewable jet fuel made from local plants. In addition Airbus is negotiating with Sinopec to introduce a full series industry chain bio fuel from raw material to high processing. 	
<ul style="list-style-type: none"> • Canadian Civil Jet makes inaugural flight – (Oct 2012) - The first flight of a civil jet aircraft powered by 100 per cent unblended biofuel was undertaken yesterday by the National Research Council of Canada (NRC) from Ottawa International Airport. As well as a symbolic milestone, the test flight of NRC’s Falcon 20 was conducted as 	

part of a programme to better understand the environmental impact of biofuel.	
<ul style="list-style-type: none"> • Lanzatech to produce alternative jet fuel - Auckland biofuel company LanzaTech has been awarded a US Federal Aviation Administration contract to produce alternative jet fuel. The company used a proprietary process to take industrial waste gases and pump them through a bacterial fermenter to produce ethanol. LanzaTech, which promoted its technology at recent air shows in Europe, will work in partnership with Swedish Biofuels to produce a jet fuel which is fully equivalent to petroleum jet fuel. Operations have been established in several Asian steel mills and a coal plant to produce ethanol. 	2 Oct 2013
<ul style="list-style-type: none"> • Virgin embraces biofuels - Virgin aviation is looking to use fuel converted from waste gases from steel mills to power Virgin Atlantic planes. Virgin is looking at technology developed by NZ company LanzaTech, which converts gases from coal plants and steel mills to usable fuel. The airline is also in a partnership to develop a system using biofuels from mallee trees. Virgin says it hopes to use the fuel within two to three years and the technology will allow it to beyond its pledge to reduce carbon per passenger by 30 percent by 2020. LanzaTech has a pilot project in NZ which is already producing 70,000 litres of ethanol a year, and recently signed an agreement to build another plant in a Shanghai steel mill. See also - LanzaTech aims to fuel Virgin flight by 2014 	
<ul style="list-style-type: none"> • Australian's to supply Lufthansa - Australian biofuels developer Algae. Tec. has signed a deal with German airline Lufthansa to construct a large scale plan to produce aviation biofuels from algae. The plant will be located in a yet to be announced European country close to an industrial CO2 source, according to an announcement this week from Algae.Tec. Lufthansa will buy 50 percent of the output. More here. 	
<ul style="list-style-type: none"> • Straw Fuel for French Planes - Passenger jets could be chomping on straw or flying on fuel extracted from sawdust in coming years as the search widens for cleaner alternatives to kerosene, French scientists say. The "ProBio3" project, started in early July and co-financed by a French government economic stimulus programme, aims to use traditional horse-bedding materials to develop a new kind of biofuel that can be used in a 50/50 blend alongside kerosene. More here. 	
<ul style="list-style-type: none"> • Aviation industry presses for biofuels support - Under pressure to cut carbon emissions, the aviation industry is urging policymakers to support the development of biofuels for aircraft in the same way they have done for road transport. EurActiv reports from the Farnborough Airshow in the UK. Biofuels were cleared for aviation use in June 2011 so long as they are blended with traditional jet fuel, and their use remains a novelty due to limited supply and high cost. Read more here. 	14 Aug 2012
<ul style="list-style-type: none"> • Aviation exec: Biofuels are key to industry's future - The aviation industry has little choice but to turn to biofuels to help meet its commitments to reducing carbon emissions in the decades ahead, argues Alan H. Epstein, an engineer who is vice president for technology and environment at Pratt & Whitney. Read more here. 	