



Swedish BioFuels

For immediate release:

**LOW CARBON AVIATION FUEL PRODUCED BY SWEDISH BIOFUELS
TECHNOLOGY TO BE USED BY VIRGIN ATLANTIC**

Swedish Biofuels have made an unprecedented advance in the development of sustainable fuel technology in cooperation with the [Virgin Atlantic](#) and LanzaTech partnership for a world-first low carbon aviation fuel with half the carbon footprint of standard fossil fuel alternatives.

STOCKHOLM, Sweden (11 October, 2011) - Swedish Biofuels AB joins with Virgin Atlantic and LanzaTech for a breakthrough in aviation fuel technology that will see waste gases from industrial steel production being captured for fermentation and re-used as aviation fuel. Waste gases from the industrial process are normally released directly into the atmosphere as carbon dioxide. This new production method means the carbon is captured and recycled, so reducing the overall carbon footprint. Swedish Biofuels technology will enable the low carbon ethanol, produced by LanzaTech, to be converted to aviation fuel. Initial detailed analysis suggests the fuel could produce a 45 - 50 % saving in lifecycle carbon emissions. This 'next generation' technology provides an alternative route to the production of aviation fuel, which complements routes associated with biomass.

Swedish Biofuels AB, a Stockholm based company, has developed technology for the production of alternative aviation fuels. It has demonstrated this technology under a project funded by the U.S. Government Defense Advanced Research Projects Agency (DARPA). Swedish Biofuels uses this technology in the production of fully synthetic, 100 % biological aviation fuel from a wide variety of non-food biological feedstocks, including lignocellulosic biomass. The aviation fuel produced has been tested with excellent results at the USAF facility at Wright-Patterson Air Force Base.

The aircraft manufacturer Boeing will work with Virgin Atlantic, LanzaTech and Swedish Biofuels to achieve technical approval for using these new fuel types in commercial aircraft. There is the prospect of commercial flights using the fuel within three years.

Professor Angelica Hull, Managing Director of Swedish Biofuels, says "Combining LanzaTech and Swedish Biofuels technology presents an exciting opportunity to extend the raw material base for alternative aviation fuels. The involvement of Virgin Atlantic provides a powerful driving force for the realization of this development."

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For more information about 'Change is in the Air' – Virgin Atlantic's sustainability programme: www.virgin-atlantic.com/changeisintheair

Swedish Biofuels AB (Stockholm, Sweden) specialises in research, development, and deployment of alternative fuels for the transport industry. The company has a strong patent base for the production of advanced drop-in biofuels from wide variety of non-food biomass including energy crops and lignocellulosic biomass such as agricultural waste, wood and forestry waste.

www.swedishbiofuels.se