



For immediate release
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Saskatchewan's Agrisoma Biosciences makes history with renewable jet fuel test flight

Ag-West Bio would like to congratulate its member company Agrisoma Biosciences on the successful completion of the world's first flight segment on 100% renewable, drop-in biofuel, conducted by the Falcon 20 jet at the National Research Council of Canada (NRC) Institute for Aerospace Research in Ottawa.

The biofuel was produced using Agrisoma's Resonance™ Energy Feedstock, a dedicated industrial oilseed launched at commercial scale in 2012 across a broad region of western Canada. The crop behind Resonance™ is *Brassica carinata*. Resonance™ feedstock is the result of years of collaborative research and development in Saskatchewan. Agrisoma worked with Agriculture and Agri-Food Canada and the NRC to develop a robust plant form for renewable fuel. The company optimized the agronomic profile of the crop using its patented Engineered Trait Loci (ETL) technology. The crop tolerates drought and heat and grows well in semi-arid conditions, such as in the brown soil zones of south-western Saskatchewan.

Wilf Keller, president and CEO of Ag-West Bio, says public and private research collaboration is extremely important to the success of the bio-industry. "Access to the research cluster on the University of Saskatchewan campus is an advantage for companies in Saskatchewan," he says. "It's exciting to see Agrisoma Biosciences achieve a world-first in this emerging industry. Renewable aviation fuel represents a great opportunity for Saskatchewan; this crop has the potential to open a new market for producers."

Steven Fabijanski, Agrisoma's president and CEO, says Agrisoma is proud to be a part of this landmark work. "To date all powered flight has relied on fossil fuel - this flight changes everything - we have witnessed petroleum-free aviation. Resonance™ Energy Feedstock production links agriculture with aviation, providing a sustainable energy solution founded in agriculture."

Using Applied Research Associates and CLG (Chevron Lummus Global) Isoconversion process, Agrisoma's Resonance™ Energy Feedstock was converted into a fuel that represents a complete replacement for conventional jet fuel, enabling flight at 100% biofuel use, a breakthrough for the renewable fuels industry. The 'drop-in fuel' is functionally identical to petroleum-based fuel, but tests have demonstrated improved efficiency and lower carbon emissions.

The biofuel flowed into the engine of the Falcon 20 - one of NRC's specifically equipped and best suited jet for this challenge – as it flew over the sky of Canada's capital. A second aircraft, the T-33, tailed the Falcon in flight and collected valuable information on the emissions generated by the biofuel. Research experts at the National Research Council will analyze this information to better understand the environmental impact of biofuel. Preliminary results are expected to be released in the following weeks.

The development of and commercialization of Resonance™ Energy Feedstock has been in cooperation with Agriculture and Agri-Food Canada, the National Research Council and the Industrial Research Assistance Program, Mustard 21, Sustainable Development Technology Canada, the Agricultural Development Fund of the Saskatchewan Ministry of Agriculture, the Green Aviation Research and Development Network and Prairie Gold. This aviation initiative is funded by the [Government of Canada's Clean Transportation Initiatives](#) and the [Green Aviation Research and Development Network](#).

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Contact information:

Jackie Robin
Communications Director
Ag-West Bio Inc.
306-668-2656
Jackie.robin@agwest.sk.ca

Mejda Lortie
Director, Regulatory and Government Affairs
Agrisoma Biosciences Inc.
613-323-3171
mlortie@agrisoma.com