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Gevo Flies High with USAF Alcohol-to-Jet Test Flight

July 3, 2012

USAF A10 Test Flight Powered by Gevo's Alcohol-to-Jet Fuel Validates Military Application

ENGLEWOOD, Colo.--(BUSINESS WIRE)--Jul. 3, 2012-- Gevo, Inc. (NASDAQ: GEVO), working with the Air Force Research Laboratories (AFRL), the Air Force Alternative Fuels Certification Division (AFCD) and the 40 Flight-Test Squadron, provided fuel for the first successful "alcohol-to-jet" (ATJ) fuel test flight, the company announced.

The first flight using Alcohol to Jet (ATJ), a cellulosic-based fuel, takes off from Eglin Air Force Base ...

The first flight using Alcohol to Jet (ATJ), a cellulosic-based fuel, takes off from Eglin Air Force Base. (U.S. Air Force photo taken by Samuel King Jr.)

At 18:30 hours, on June 28, the USAF flew an A-10 Thunder Bolt jet aircraft powered by a Gevo-produced blend of 50% ATJ fuel and 50% JP-8. A series of flight test maneuvers, throttle bodies, auxiliary power unit (APU) starts and engine assisted starts were performed. The A-10 is a single-seat aircraft powered by two high-bypass GE TF34 turbofan engines. A Honeywell 36-50 APU is used for engine starting and in flight emergency power generation.

"We're extremely proud to have witnessed and contributed to the USAF's first and only ATJ test flight," said Chief Operating Officer and President Chris Ryan. "Last week's test flight represented an accumulation of more than 4,000 hours of hard work involving

innovative testing, multiple players and years of research on everyone's part. Together, we have proven that ATJ fuel is a technically viable and promising alternative for both military and commercial applications."

"This is a great accomplishment for the USAF, Gevo and the biofuels industry. We've validated that ATJ from isobutanol is a clean burning, homegrown, drop-in jet fuel. The USAF's flight has taken the industry one step closer to full commercialization. We remain committed to commercialization and believe we have the most economic route to deliver aviation biofuels at scale," Ryan said.

Gevo, a leading renewable chemicals and next-generation biofuels company, was put on contract last year to provide the USAF 11,000 gallons of its ATJ fuel derived from isobutanol for testing by the AFCD. Gevo's patented ATJ fuel is truly a drop-in fuel, deliberately designed to be fully compliant with aviation fuel specifications and provide equal performance, including fit-for-purpose properties.

"The AF previously ran a series of engine ground tests, using the 50/50 blend of the ATJ and JP-8," said Jeffrey Braun, Division Chief of AFCD. "Data was then compared with previous results from JP-8 baseline testing. Engine performance parameters monitored during the testing remained unchanged when utilizing the ATJ fuel blend. We were very pleased with the technical performance of the ATJ material."

The A-10 Thunderbolt II is a single-seat, twin-engine, straight-wing [jet aircraft](#) originally developed by [Fairchild-Republic](#). The A-10 is a [Close Air Support](#) (CAS) platform, providing support to ground forces by attacking [tanks](#), [armored vehicles](#), and other ground targets with a limited [air interdiction](#) capability.

About Gevo

Gevo is converting existing ethanol plants into biorefineries to make renewable building block products for the chemical and fuel industries. The Company plans to convert renewable raw materials into isobutanol and renewable hydrocarbons that can be directly integrated on a "drop in" basis into existing chemical and fuel products to deliver environmental and economic benefits. Gevo is committed to a sustainable biobased economy that meets society's needs for plentiful food and clean air and water. For more information, visit <http://www.gevo.com>

Forward-Looking Statements

Certain statements in this press release may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements include statements that are not purely statements of historical fact, and can sometimes be identified by our use of terms such as "intend," "expect," "plan," "estimate," "future," "strive" and similar words. These forward-looking statements are made on the basis of the current beliefs, expectations and assumptions of the management of Gevo and are subject to significant risks and uncertainty. Investors are cautioned not to place undue reliance on any such forward-looking statements. All such forward-looking statements speak only as of the date they are made, and the company undertakes no obligation to update or revise these statements, whether as a result of new information, future events or otherwise. Although the company believes that the expectations reflected in these forward-looking statements are reasonable, these statements involve many risks and uncertainties that may cause actual results to differ materially from what may be expressed or implied in these forward-looking statements. For a further discussion of risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to the business of Gevo in general, see the risk disclosures in the Annual Report on Form 10-K of Gevo for the year ended December 31, 2011, as amended, and in subsequent reports on Forms 10-Q and 8-K and other filings made with the SEC by Gevo.

Photos/Multimedia Gallery Available: <http://www.businesswire.com/cgi-bin/mmq.cgi?eid=50330144&lang=en>

Source: Gevo, Inc.

Media:
Gevo, Inc.
Greta Thomsen, 303-715-8928
Director of Marcom and PR
gthomsen@gevo.com
or
Investor:
Stern IR for Gevo
Sarah McCabe, 267-909-9237
sarah@sternir.com