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Solazyme Produces World's First Algal-Based Jet Fuel - Fuel Passes All Tested Specifications Including the Most Critical ASTM D1655 Specifications -

Last update: 9:37 a.m. EDT Sept. 9, 2008

SOUTH SAN FRANCISCO, Calif., Sep 09, 2008 (BUSINESS WIRE) -- Solazyme Inc. announced that it has produced the world's first microbial-derived jet fuel. Solazyme's algal-derived aviation fuel as analyzed by the Southwest Research Institute (SwRI), one of the nations leading fuel analytical laboratories, passed the eleven "most challenging specifications needed to meet the ASTM D1655 standard for Aviation Turbine Fuel. The tested areas included the key measurements for density, thermal oxidative stability, flashpoint, freezing point, distillation and viscosity among others. Of the eleven tested parameters, the Solazyme aviation fuel passed the ASTM D1655 requirements for every measurement. Therefore, the Solazyme algae-based aviation kerosene has passed the biggest hurdles needed to successfully develop a commercial and military jet fuel fully consistent with existing engines and infrastructure," as stated in the SwRI report.

In the U.S. alone, 1.6 billion gallons of jet fuel are used every month resulting in significant greenhouse gas emissions. Additionally, the EU is widely expected to require airlines flying into and out of airports in the EU to participate in the Emissions Trading System beginning in 2011. As a result, the need for environmentally friendly and sustainable alternatives is growing rapidly. Solazyme's algal-derived aviation fuel is the first step towards achieving those alternatives on a broad scale.

"We are excited to be the first advanced biofuel company to successfully make jet fuel from algal oil that passes the most critical ASTM D1655 (Jet A) standards. Producing a low carbon jet fuel and putting it through biofuel testing with SwRI further solidifies Solazyme's position as a leader in the green fuels space," said Jonathan Wolfson, chief executive officer of Solazyme. "This announcement is proof of the advantages of our proprietary renewable oil production process to create highly tailorable oils and renewable fuels."

Solazyme is currently producing thousands of gallons of oil at scale and is the only advanced biofuels company that has produced fuels that have passed specification testing. The fuels produced in addition to jet fuel include SoladieselBDTM a FAME biodiesel and SoladieselRDTM a renewable diesel, which has the same chemical properties as petro-diesel. Like Solazyme's aviation fuel, both SoladieselTM fuels are compatible with the existing transportation fuel infrastructure.

Solazyme implements a unique algal conversion process that allows algae to produce oil in large tanks quickly, efficiently and without sunlight. The process can employ a variety of non-food feedstocks, including cellulosic materials such as agricultural residues and high-productivity grasses including bagasse and switchgrass as well as industrial byproducts such as crude glycerol. The results are renewable oils that can be leveraged across a wide variety of industries and applications, which are nontoxic and safe.

About Solazyme:

Solazyme, Inc. is a renewable oil production company and the leader in algal synthetic biology. Solazyme's unique microbial conversion technology process allows algae to produce oil in standard industrial facilities quickly, efficiently and at large scale. These oils are tailored not only for advanced biofuel production, but also as replacements for fossil petroleum and plant oils in a diverse range of products running from green household cleaning supplies to cosmetics and foods. The company was founded in 2003 and has its headquarters in South San Francisco, Calif. For more information, please visit our website: <http://www.solazyme.com>.

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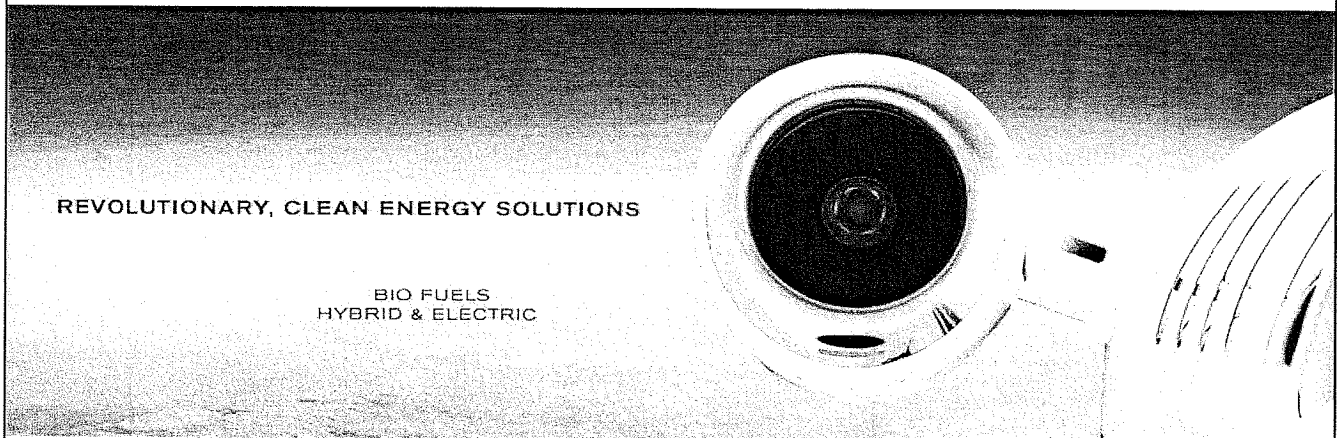
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 Shares of TFS6X were down 3.86% over the last five days and were led lower by AXAS, the fund's largest holding, posting huge losses of 19.65%. The other top holdings were also down.

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RENEWABLE FUEL TECHNOLOGY

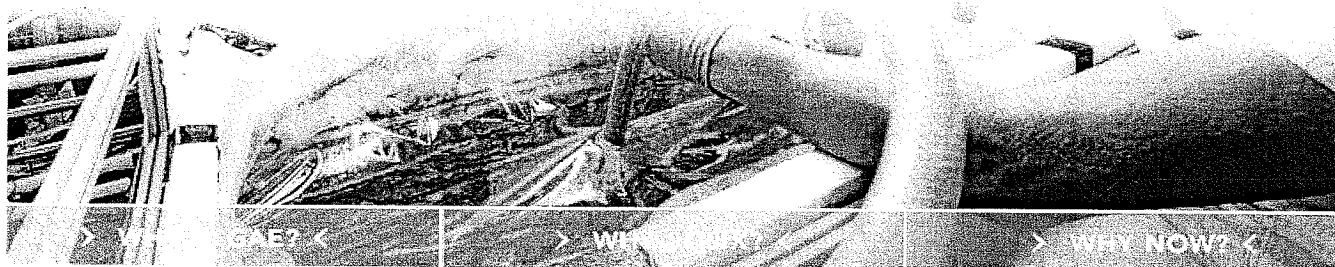
Like other fossil fuels, the cost of standard jet fuel ("Jet A") has increased significantly over the past few years and remains highly volatile today – the cost of Jet A averages between \$5.50 and \$7.00 per gallon.

A renewable biofuel is the realistic answer to surging prices and increased environmental concerns. However, in order to effectively commercialize biofuel, the selected plant feedstock must produce significant energy yields, be easy to cultivate and process, not compete with human food stock and avoid the political and social issues regarding resource requirements and usage. The right biofuel must also demonstrate the ability to yield more energy than is utilized in its creation (net energy positive) while, ideally, remaining carbon neutral.

Bye Energy is analyzing opportunities with jet fuel derived from plant-based feedstock to replace traditional petroleum sources on business jet aircraft. We have initiated scalable beta test models at three different selected sites in the United States and plan on efficiently scaling up and commercializing production after testing is completed.



SOLIX


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Deep roots.

Solix Biofuels is a direct intellectual descendant of the U.S. Department of Energy's Aquatic Species Program started in 1978 to explore ways to produce biodiesel from algae. When the program concluded in 1996 at the National Renewable Energy Lab in Golden, Colorado, the final program close-out report concluded that, in spite of many impressive accomplishments — especially in the biological sciences — “the high cost of algae production remains an obstacle”. The key barriers in 1996 were:

- o Low cost of conventional fuel (diesel prices were hovering around \$1.10 per gallon).
- o No monetary value for carbon mitigation capability of biodiesel.
- o Higher than expected cost of the production system.
- o Lower than expected productivity of outdoor open pond system.

A decade later, the world is different: Diesel is selling decisively at or above the \$3.50 mark; the monetization of carbon is well underway in Europe with the US expected to follow soon; and a robust market for renewable biofuels had emerged.

In April 2006, the algae-based biodiesel gauntlet was taken up by a proven team of engineers and entrepreneurs armed with a breakthrough design for a closed algae growth system that is cost competitive with open systems. With initial funding in hand, Solix Biofuels came on stage, ready to turn the promise of research into commercial reality.

By August 2006 a first generation prototype had been built, tested, and analyzed, and a second generation prototype was launched. And the adventure is just beginning.

WHY ALGAE?

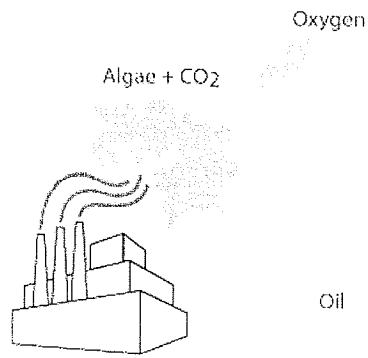
PRODUCTIVE

EFFICIENT

ADAPTABLE

BENEFICIAL

REUSEABLE



Hungry for exhaust gases.

Algae thrive on a high concentration of carbon dioxide. And nitrogen dioxide (NO₂), a pollutant of power plants, is a nutrient for the algae. Algae production facilities can thus be fed exhaust gases from fossil fuel power plants, and even breweries, to significantly increase productivity and clean up the air.

◀ PREVIOUS: ADAPTABLE

NEXT: REUSABLE ▶

WHY ALGAE?

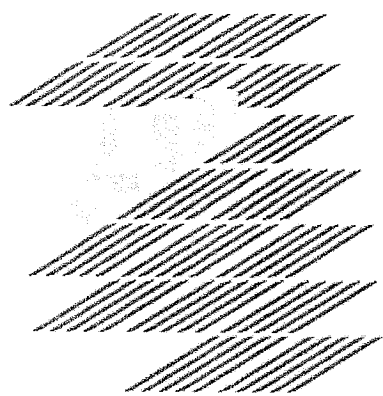
PRODUCTIVE

EFFICIENT

ADAPTABLE

BENEFICIAL

REUSEABLE



Infinitely scaleable.

The right naturally occurring algae species can, under just the right conditions, produce oil at near-theoretical limits. Their small size (less than 30 microns) and aquatic nature makes them ideal for a large-scale, highly automated, closed production system called a photobioreactor, or PBR. These systems are highly-tuned to provide each cell the precise conditions needed for maximum productivity.

← PREVIOUS: EFFICIENT

NEXT: BENEFICIAL →

WHY ALGAE?

PRODUCTIVE

EFFICIENT

ADAPTABLE

BENEFICIAL

REUSEABLE

Crop-Based
Biodiesel

100 Gallons*

100
Gallons Water*

Algae Based
Biodiesel

1 Gallon*

1
Gallon Water*

Food and fuel.

Algae production does not compete with agriculture. Algae production facilities are closed and do not require soil for growth, use 99% less water than conventional agriculture, and can be located on non-agricultural land far from water. Since the whole organism converts sunlight into oil, algae can produce more oil in an area the size of a two-car garage than an entire football field of soybeans.

◀ PREVIOUS: PRODUCTIVE

NEXT: ADAPTABLE ▶

WHY ALGAE?

PRODUCTIVE

EFFICIENT

ADAPTABLE

BENEFICIAL

REUSEABLE

Algae Based
Biofuels

Algae Based
Biofuels

Working overtime.

Algae's single-celled structure is extremely efficient in use of light and absorption of nutrients. So much so, that algae's growth and productivity is 30 to 100 times higher than crops like soybeans.

PREV: WHY ALGAE?

NEXT: EFFICIENT

Representative Yields: Gallons/Acre