



Press Release

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Life Cycle Analysis of Camelina-based Renewable Jet Fuel Shows 84% CO2 Emissions Reduction Compared to Petroleum Fuel

High oil content, low fertilizer requirements and co-product use combine to lower carbon footprint

April 27, 2009 – Bozeman, MT—Renewable fuels company Sustainable Oils today announced the results of a life cycle analysis (LCA) of jet fuel created from camelina seeds developed by the company, which shows that the renewable fuel reduces carbon emissions by 84 percent compared to petroleum jet fuel. The research, in collaboration with UOP, a Honeywell company, was conducted at Michigan Tech University, a leading research university. The study was based on camelina grown in Montana and processed into biojet fuel using UOP hydroprocessing technology.

“The quickest way to reduce carbon emissions from aviation is to begin replacing petroleum fuel with fuel made from renewable and sustainable camelina oil,” said Scott Johnson, general manager of Sustainable Oils. “The acreage that we have contracted for 2009 will be used primarily to continue to develop the promising biojet market. Our success this year in planting thousands of acres of camelina specifically for this use will prepare us to supply the hundreds of millions of gallons of fuel we will need within five years. No other potential feedstock can provide as much fuel in as short a horizon.”

Camelina is well suited to be a sustainable biofuel crop, as it naturally contains high oil content; its oils are low in saturated fat; it is drought resistant and requires less fertilizer and herbicides. Most importantly, it is an excellent rotation crop with wheat, and it can also grow in marginal land. Camelina does not displace other crops or compete as a food source. It is estimated that the state of Montana alone could support between 2 and 3 million acres of camelina, generating 200 to 300 million gallons of oil each year.

“Camelina is one of the most promising sources for renewable fuels that we’ve seen,” said Billy Glover, managing director, Environmental Strategy, Boeing Commercial Airplanes. “It performed as good if not better than traditional jet fuel during our test flight with Japan Airlines earlier this year, and supports our goal of accelerating the market availability of sustainable, renewable fuel sources that can help aviation reduce emissions. It’s clear from the LCA results that camelina is one of the leading near-term options and, even better, it’s available today.”

“The data shows the life cycle greenhouse gas emissions reductions of using camelina in this manner is 84 percent,” said Professor David Shonnard, Robbins Chair Professor of Chemical Engineering at Michigan Tech University. “Camelina green jet exhibits one the largest greenhouse gas emission reduction of any agricultural feedstock-derived biofuel I’ve ever seen. This high number is the result of

the unique attributes of the crop – its low fertilizer requirements, high oil yield and the use of co-products, such as meal and biomass, for other uses.”

Sustainable Oils has just completed its 2009 contracting season working closely with farmers to maximize oil production per acre. The company expects to deliver most of its 2009 production for use as a biojet fuel feedstock.

About Sustainable Oils

Sustainable Oils, Inc. is a producer and marketer of renewable, environmentally clean, and high-value camelina-based fuel. A joint venture between Targeted Growth, Inc., a renewable energy bioscience company, and Green Earth Fuels, a vertically integrated biodiesel energy company, Sustainable Oils is focused on the continued research and development of dedicated energy crops such as camelina. Sustainable Oils solidly supports both agricultural and green energy initiatives with camelina, which is efficiently and economically grown even on marginal lands, harvested with traditional equipment, and requires minimal water.

About Targeted Growth, Inc.

Targeted Growth, Inc. was founded in 1999 with a goal of developing technologies that would increase the productivity of existing farmland and create new crops for use on land otherwise unsuitable for agriculture. Today, Targeted Growth is a global leader in bioscience, having developed technologies that both increase seed size and yield in major crops. It has also developed a line of dedicated energy crops, including camelina and sugarcorn, as well as a non-agricultural feedstock – cyanobacteria algae for biomass. The company has strategic partnerships with leading researchers and agribusinesses around the world. Targeted Growth is based in Seattle, Wash., with labs in Seattle, Saskatchewan, Ottawa and New Brunswick. More information is available at www.targetedgrowth.com.

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