



SG Biofuels: Meeting Global Demand for Sustainable Plant Oil

SG Biofuels is a bioenergy crop company meeting the global demand for sustainable plant oil by using breeding and biotechnology to develop and produce elite hybrid seeds of Jatropha. Led by a world-class leadership and science team, SG Biofuels features a fully integrated platform including the most advanced science and biotechnology program in the industry and deep expertise in all phases of plantation development and management.



World-Class Leadership Team

The SG Biofuels executive management team includes energy, petrochemical, biotechnology and agribusiness veterans with a proven track record scaling community and commercial agricultural projects, and direct experience at companies including DuPont's Pioneer Hi-Bred, Monsanto, Diversa and Dow Agro Sciences. Our science team includes leaders in plant molecular genetics and agronomics, including two members of the National Academy of Sciences, the industry's highest honor. The company has been named one of the Top 50 companies in bioenergy for two consecutive years by *Biofuels Digest* and one of the Top 100 emerging clean tech companies by *Always On*. Its JMax Jatropha Optimization Platform™ was named Feedstock Domestication Project of the Year for 2010 by *Biofuels Digest*.

Industry-Leading Partners and Investors



FLINT HILLS
resources®



SG Biofuels has formed industry-leading partnerships addressing the complete value chain – from crop improvement and seed production to agricultural services and downstream processing and distribution. The company's platform is significantly enhanced through landmark partnerships and investments from Flint Hills Resources, a wholly-owned subsidiary of Koch Industries, and Life Technologies Corporation (NASDAQ: LIFE), a global biotechnology tools company. FHR's partnership with SG Biofuels provides strong validation of the global economic opportunity presented by the crop and offers SG Biofuels the vast downstream expertise of one of the world's largest and most experienced leaders in the processing of petrochemicals. The alliance with Life Technologies forms the industry's most advanced Jatropha genetic program, including the successful sequencing of the Jatropha genome. The

company has also formed a strategic partnership with Bunge North America, the North American operating arm of Bunge Limited (NYSE: BG), to research and develop a model to process Jatropha seeds into a biofuel feedstock. Bunge is the largest oilseed processor in the world with more than 32,000 employees in 30 countries.



JMax™ – Bringing the Opportunities of Jatropha to Reality



Following four years of research and development of the world's largest, most diverse library of Jatropha genetic material with over 7,000 genotypes, SG Biofuels has launched the JMax Jatropha Optimization Platform™, creating the world's first line of elite Jatropha cultivars. Through the JMax Jatropha Optimization Platform™, SG Biofuels produces the highest-yielding, most profitable hybrid seeds of Jatropha, and works with customers to scale successful plantations that combine industrial and community production models.



The JMax Platform provides growers and plantation developers with access to the highest yielding and most profitable Jatropha in the world, the sequenced Jatropha genome and advanced biotech and synthetic biology tools to optimize superior cultivars for unique growing conditions. The company's first product is JMax 100™, the world's first elite cultivar with projected yields in excess of 100 percent greater than existing commercial varieties, resulting in a 300 percent increase in profits. Current production costs for JMax 100™ are \$1.40 per gallon (\$58 per barrel). The company has identified specific traits that will ultimately lower the production cost of crude Jatropha oil to \$0.75 per gallon.

Hybrid Seed – Game-Changing Technology

SG Biofuels has enabled the cost-effective scaling of large Jatropha plantations through the development of a proprietary technology for Jatropha hybrid seed production. Hybrid seeds result in greater yield, uniformity and vigor while significantly reducing handling and deployment costs for plantation developers. Hybrid seed technology has historically been responsible for exponential increases in agricultural production and profitability. Since the introduction of hybrid corn in the 1940's, along with improved agronomic practices, the average U.S. bushel per acre has increased by more than 400 percent from 30 to approximately 140.

Jatropha – Profitable and Sustainable

Jatropha curcas is a subtropical, non-edible renewable energy crop that grows on marginal land considered undesirable for food production. Once harvested and crushed, oil from Jatropha's seeds can be processed to produce high-quality biodiesel for a standard diesel engine (U.S. ASTM 6751 and E.U. EN14214 standards), bio-jet fuel or biomaterials. Third-party life cycle analysis has found Jatropha to provide a 70 percent reduction in greenhouse gas emissions compared to traditional petroleum.



Partnership with the Roundtable on Sustainable Biofuels

SG Biofuels has formed a landmark partnership with the Roundtable on Sustainable Biofuels to evaluate the practicality and usability of RSB sustainability standards applied against the company's 600 hectare Jatropha community farming model in Guatemala. The project, the largest Jatropha community farming effort in Latin America, was established by SG Biofuels in partnership with Technoserve, an international Non-Governmental Organization (NGO) and USAID. Through its community-farming initiative and pilot with the RSB, SG Biofuels is establishing a model system for the sustainable production of Jatropha that provides economic value to farmers and communities. Such a model will bring opportunities to communities creating thousands of jobs for local workers and, more importantly, creating thousands of local owners and market participants. The sustainability insights gained through the pilot are critical as the company deploys large-scale community-farming and plantation projects around the world.

"We thank SG Biofuels for their leadership in furthering the development of sustainability standards for the biofuels industry, specifically for Jatropha."

- Matthew Rudolf, Regional Manager for the Americas, Roundtable on Sustainable Biofuels.