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Green Plains to use Enogen® corn from Syngenta across its 1.5 billion gallon production platform

- | Syngenta's Enogen footprint now includes more than 30 plants with a combined capacity of more than 3 billion gallons
- | Significant reduction in corn mash viscosity from using Enogen corn can lead to increased throughput and yield, as well as reduced energy usage, for ethanol plants
- | Marketing agreement enables farmers in a growing number of communities to serve as enzyme suppliers to the ethanol industry

MINNETONKA, Minn., U.S.A. – Syngenta today announced a partnership with Green Plains Inc. (NASDAQ: GPRE) to expand its use of Enogen® corn enzyme technology across its 1.5 billion gallon production platform.

Green Plains is one of the largest owners of ethanol production assets in the world, purchasing more than 500 million bushels of corn each year. Using Enogen corn as a portion of the feedstock enables alpha amylase to be delivered directly in the grain, eliminating the need to add a liquid form of the enzyme and significantly reducing the viscosity of the corn mash.

According to Green Plains President and CEO Todd Becker, the opportunity to enhance production and invest locally are key benefits of using Enogen corn.

“We have been using Enogen corn at a number of our locations for the past several years and have noted significant benefits, including enhanced yield and reduced energy costs,” Becker said. “Combining our focus to buy more corn directly from farmers and purchasing alpha amylase locally, in the form of high-quality grain for all of our plants, we believe Enogen will create value for our shareholders, growers and the communities where we do business.”

Enogen corn enzyme technology is an in-seed innovation available exclusively from Syngenta and features the first biotech corn output trait designed specifically to enhance ethanol production. Using modern biotechnology to deliver best-in-class alpha amylase enzyme directly in the grain, Enogen corn eliminates the need to add liquid alpha amylase and creates a win-win-win scenario by adding value for ethanol plants, corn growers and rural communities. Enogen is making dramatic gains not only in the field, but in ethanol plants, as well, and is helping to fuel enzyme innovation.

“Enogen is rapidly gaining popularity because of the value it delivers to ethanol producers and the opportunity it provides corn growers to be enzyme suppliers for their local ethanol plants,” said Jeff Oestmann, head, Bio-fuels Operations – Enogen at Syngenta. “Enogen corn enzyme technology creates increased profit potential for ethanol producers and corn growers while adding significant incremental value at the local level for communities that rely on their ethanol plant's success.

“Syngenta is committed to the success of the U.S. ethanol industry and to helping ethanol plants adopt the best enzyme strategy. We are proud to have made a significant investment to bring this game-changing technology to market to help make ethanol more sustainable and to help plants differentiate their offerings and support their local communities by keeping enzyme dollars local,” Oestmann added.

Today, 97 percent of America's motor fuel mix contains about 10 percent ethanol, and higher blends are increasingly available. These new consumer options have appeared, in part, due to the work of the ethanol industry in pushing for more options like E15 for consumers at the pump. Ethanol is helping America reduce its dependence on foreign oil, and is helping to create jobs that can't be outsourced. Enogen not only helps keep enzyme dollars in local communities, it also supports the creation of jobs in the United States.

The robust alpha amylase enzyme found in Enogen grain helps an ethanol plant significantly reduce the viscosity of its corn mash and

eliminates the need to add a liquid form of the enzyme. This breakthrough reduction can lead to unprecedented levels of solids loading, which directly contributes to increased throughput and yield, as well as critical cost savings from reduced natural gas, electricity and water usage.

Farmers who grow Enogen corn are eligible to earn an additional premium per Enogen bushel. And, numerous trials have shown that Enogen hybrids perform equal to or better than other high-performing corn hybrids¹.

To inquire about incorporating Enogen into a dry grind ethanol plant, contact Jeff Oestmann at jeff.oestmann@syngenta.com. For more information about Enogen corn hybrids, contact a Golden Harvest[®] Seed Advisor or NK[®] retailer, or visit www.Enogen.com.

Join the conversation online – connect with us at social.SyngentaUS.com.

¹Syngenta production data, 2012-2016

About Syngenta

Syngenta is a leading agriculture company helping to improve global food security by enabling millions of farmers to make better use of available resources. Through world class science and innovative crop solutions, our 28,000 people in over 90 countries are working to transform how crops are grown. We are committed to rescuing land from degradation, enhancing biodiversity and revitalizing rural communities. To learn more visit www.syngenta.com and www.goodgrowthplan.com. Follow us on Twitter at www.twitter.com/Syngenta and www.twitter.com/SyngentaUS.

About Green Plains Inc.

Green Plains Inc. (NASDAQ:GPPE) is a diversified commodity-processing business with operations related to ethanol production, grain handling and storage, cattle feedlots, food ingredients, and commodity marketing and logistics services. The company is the second largest consolidated owner of ethanol production facilities in the world with 17 dry mill plants, producing nearly 1.5 billion gallons of ethanol at full capacity. Green Plains owns a 62.5% limited partner interest and a 2.0% general partner interest in Green Plains Partners. For more information about Green Plains, visit www.gpreinc.com.

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