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Green Plains launches World's first Clean Sugar Technologyâ?¢ Facility (CSTâ?¢)

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Green Plains Inc. unveiled successful ongoing production of dextrose syrups at the worldâ??s first commercial deployment of Clean Sugar Technologyâ?¢ (CSTâ?¢) in Shenandoah, Iowa. This patented system, designed by Fluid Quip Technologies, produces dextrose and glucose corn syrups with up to a 40% lower carbon-intensity than existing alternatives. These low carbon-intensity ingredients are designed for renewable chemicals, bio-based materials and food and beverage formulations.

â??The successful start of the game-changing Clean Sugar Technology in Shenandoah, combined with the first ever dextrose from a dry mill, ushers in a new era for Green Plains and the sugar industry as a whole,â? said Todd Becker, President and Chief Executive Officer at Green Plains. â??Not only is this disruptive to traditional manufacturing of dextrose and glucose products but we believe our entry into this market with a focus on low carbon-intensity ingredients better positions us to meet expanding demand. I would like to thank the many people who have worked tirelessly to help accomplish one of the most critical milestones in our transformation journey, including our engineering and operating teams, the State of Iowa and the City of Shenandoah, enabling Green Plains to serve new markets in industrial fermentation and food production, sustainably leading the way in powering the bio-economy in the U.S. and abroad.â?

The dextrose and glucose corn syrups produced with CSTâ?¢ have proven successful in trials as feedstocks for fermentation of various bio-products and bio-chemicals, in addition to food ingredients. Green Plains is in advanced negotiations and going through final product approvals with multiple offtake partnerships, and interest for these dextrose and glucose corn syrups exceeds the current production capacity of the Shenandoah facility.

â??Clean Sugar Technology unlocks the corn kernel to produce products similar to a corn wet mill but with a lower carbon-intensity as the demand for dextrose and glucose corn syrups continues to grow,â?• added Becker. â??These sustainable ingredients are enabling a new path for the bio-based economy to achieve breakthroughs in renewable chemicals and beyond.â?•

Bulk shipments of commercial quantities to end-use customers will commence in the coming weeks. The facility has achieved 3rd party certification for current Good Manufacturing Practices (GMPs) with FSSC 22000 certification expected to be completed in the next quarter. Over the next several quarters the facility will be optimized to increase production.