

## Green Plains and Tharaldson Ethanol partners to launch Start-Up of MSC<sup>2</sup> System

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Green Plains Inc. and joint venture partner Tharaldson Ethanol announced the launch of the world's largest MSC<sup>2</sup> system to date at Tharaldson's 175 million-gallon biorefinery in Casselton, North Dakota to produce and ship on-spec product. Leveraging MSC<sup>2</sup> technology from Fluid Quip Technologies, it expands the production of Ultra-High Protein, a high-quality protein ingredient, providing superior nutrition solutions for pet, aquaculture and other animal feed markets with up to a 40% lower carbon-intensity than competing products.

"The successful start-up of the MSC system at our turnkey partner Tharaldson Ethanol marks a significant milestone in the production of Ultra-High Protein," said Todd Becker, President and CEO of Green Plains. "Achieving higher renewable corn oil yields and expanding protein production not only strengthens our product portfolio but also reinforces our position as a leading producer of innovative low-CI high-protein feed ingredients."

In addition to producing higher protein ingredients, the MSC<sup>2</sup> system has allowed Tharaldson to achieve record renewable corn oil yields. Green Plains is dedicated to maximizing the value of every kernel of corn, contributing more low-carbon intensity feedstocks for advanced biofuels including renewable diesel, biodiesel and sustainable aviation fuel.

"This achievement is a testament to the hard work and collaboration between Green Plains and Tharaldson," said Ryan Carter, COO of Tharaldson Ethanol. "We are excited to be producing Ultra-High Protein, and are already seeing increased corn oil production, a testament to the robust technology portfolio at Fluid Quip Technologies."

Fluid Quip Technologies provided the MSC technology as well as the engineering, design, procurement, construction management and startup services for the project. The completion of the MSC system at Tharaldson brings overall annual production capacity for Ultra-High Protein marketed by Green Plains to 430,000 tons.