

ICM, Incorporated

Corporate Headquarters: Colwich, KS

Proposed Facility Location: St. Joseph, MO

Description:

ICM will construct and operate a pilot integrated biorefinery using a proven biochemical platform pretreatment technology enhanced by energy recycling and process flow innovations to refine terrestrial lignocellulosic biomass into fuel ethanol. The proposed process furthers the cost effective production of ethanol from lignocellulosic biomass.

CEO or Equivalent: Dave Vander Griend, President and CEO

Participants: AGCO Engineering; NCAUR-ARS-Peoria; CERES, Inc; Edenspace Systems Corporation; Novozymes North America, Inc; South Dakota State University; Sun Ethanol, Inc.; U.S. Department of Energy's National Renewable Energy Lab; and VeraSun Energy Corporation

Production:

- 1.5 million gallons per year (MMGY) of fuel ethanol by the 4th quarter of 2010

Technology and Feedstocks:

- Will use corn fiber, switchgrass, forage sorghum and corn stover as feedstock
- Biochemical platform pretreatment technology enhanced by energy recycling and process flow innovations

State of Readiness:

- The pilot biorefinery will be co-located with existing 50 MMGY dry-mill ethanol plant and will leverage energy usage and infrastructure.
- 750 ICM professionals and support staff already in place to transition the pilot-scale technology to full-scale commercial implementation.
- Existing ICM-designed grain ethanol plants have already expressed written interest in the new cellulose-to-ethanol technology
- Estimated project completion: 2012.

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