

Logos Technologies, Inc. Pilot CCM Biorefinery

Logos and EdeniQ, Inc. will retrofit EdeniQ's existing pilot plant in Visalia, CA.

The goal of the pilot facility is to demonstrate advanced technologies and methods to convert non-food, cellulosic feedstocks into ethanol in an economically and environmentally compelling way.

<http://www.logos-technologies.com/CCM.htm>

<http://www.edeniq.com/CCM>

Project Description

Logos and EdeniQ have teamed on the Corn-to-Cellulosic Migration (CCM) Project to focus on the migration of billions of dollars of capital deployed in today's corn ethanol industry toward cost-effective production of greener ethanol from corn stover, switchgrass and woodchips.

The project utilizes a suite of EdeniQ's proprietary technologies: the Cellunator™ (mechanical pretreatment), advanced enzymes for conversion of cellulose to sugars, and high-yielding yeasts to ferment the sugars to ethanol.

The project is sourcing corn stover from Next Step Biofuels, Inc., switchgrass from Ceres, and wood chips from recycling and composting facilities in central California.

The CCM Project promotes the national goals of energy independence, greenhouse gas reduction, and green job creation and retention. The CCM project will:



Switchgrass (*Panicum virgatum*), a perennial grass native to North America, is a promising feedstock for cellulosic biofuels.

- Begin operations of the pilot scale cellulosic feedstock test facility by mid-year 2011.
- Develop second-generation yeasts for saccharification and fermentation
- Demonstrate the effective use of various feedstocks: corn stover, switchgrass, and wood chips.
- Gather metrics for the construction and scale-up to a commercial-sized facility.

Potential Impacts

The CCM pilot plant is planned to startup in mid to late-2011. The project will be sited at EdeniQ's existing facility in Visalia, CA. The project is expected to sustain 43 positions over the 3.5 year project period, including 11 new positions.

Once the process has been demonstrated at the pilot facility, a commercialization plan will be implemented to produce cellulosic ethanol in very large quantities sufficient to help the United States reduce its dependence on imported oil.

Other Participants

Logos and EdeniQ are working in cooperation with The University of California, Davis (UCD), Novozymes, and the USDA Forest Products Laboratory.

Prime	Logos Technologies, Inc.
Location	Visalia, CA-Project Site (Arlington, VA-Headquarters)
Feedstock (s)	Various cellulosic feedstocks (corn stover, switchgrass, wood chips, etc.)
Size	2 tons per day
Primary Products	Cellulosic ethanol
Capacity	50,000 gallon per year ethanol
Award Date	TBD
GHG Reduction	>80% reduction versus petroleum-based fuels
Anticipated Job Creation	11 new positions (43 total sustained positions)
Company Contact	Mike "Doc" Donovan, Project Manager mdonovan@logos-technologies.com