Pacific Ethanol, Inc.

Corporate HQ: Sacramento, California

Proposed Facility Location: Boardman, Oregon

Description: The project will design, construct, and operate a feedstock

flexible demonstration facility producing cellulosic ethanol and that is co-located with an existing corn ethanol plant.

CEO or Equivalent: Neil Koehler, CEO

Participants: BioGasol, ApS; and U.S. Department of Energy's (DOE),

JBEI - Joint BioEnergy Institute, one of three DOE Bioenergy

Research Centers --

Production: Capacity of 2.7 million gallons of ethanol per year

Technology and Feedstocks: Wheat straw, corn stover and poplar residuals

BioGasol proprietary conversion technologies consist of the

following process steps: Pre-treatment, Hydrolysis,

Fermentation, and Anaerobic digestion of process water and

recirculation.

Especially novel is the highly efficient and cost effective pretreatment process for the opening of the lignocellulosic biomasses and a unique C5-sugars fermentation that allows

conversion of nearly all carbohydrates available.

These carbohydrates in the feedstock are converted to valueadded products including ethanol, and hydrogen while the unused fraction is converted into methane. Approximately 15 % of the material will be separated out as a solid fuel, which

can be used for combustion.

State of Readiness: The BioGasol process has been validated in a pilot facility

operating for nearly two years in Denmark.

BioGasol is also building a demonstration facility in Denmark, the Born BioFuel ("BBF") project should be

operational in late 2009.

Project Timeline: Construction Start: late 2009

Estimated Performance Test: 4th Quarter CY 2010

Commercial Scale Expansion: 2012.

Link to Recipient: www.pacificethanol.net