FY 2011BIOMASS RESEARCH AND DEVELOPMENT INITIATIVE: AWARDEES

USDA Awards

- **Quad County Corn Cooperative** ($4.25 million – Galva, Iowa): This project will retrofit an existing corn starch ethanol plant to add value to its byproducts, which will be marketed to the non-ruminant feed markets and biodiesel industry. This project enables creation of diverse product streams from this facility, opening new markets for the cooperative and contributing to the U.S. Environmental Protection Agency's goals for cellulosic ethanol production and use.
- **Agricultural Research Service's National Center for Agricultural Utilization Research** ($7 million – Peoria, Illinois): This project will optimize rapeseed/canola, mustard, and camelina oilseed crops for oil quality and yield using recombinant inbred lines. Remote sensing and crop modeling will enhance production strategies to incorporate these crops into existing agricultural systems across four ecoregions in the western United States. The oils will be hydrotreated to produce diesel and jet fuel.
- **Cooper Tire & Rubber Co.** ($6.85 million – Findlay, Ohio): Guayule is a hardwood perennial natural rubber-producing shrub that is grown in the semi-arid southwestern United States. This project will optimize production and quality of guayule rubber using genomic sequencing and development of molecular markers. The extracted rubber will be used in tire formulations, and the remaining plant residue will be evaluated for use in biopower and for conversion to jet fuel precursors.
- **University of Wisconsin** ($7 million – Madison, Wisconsin): This project will utilize dairy manure as a source of fiber and fertilizer. Fiber will be converted to ethanol; manure will be used for fertilizer; and oil from the crops will be converted to biodiesel used in farm equipment. The project goal is to develop closed-loop systems with new product streams that benefit the environment.
- **University of Hawaii** ($6 million – Manoa, Hawaii): This project will optimize the production of grasses in Hawaii, including napier grass, energy cane, sugarcane and sweet sorghum. Harvest and preprocessing will be optimized to be compatible with the biochemical conversion to jet fuel and diesel.

DOE Award

- **Iowa State University** ($3.5 million – Ames, Iowa): This project is a three-year collaboration to develop an environmentally and economically viable "end-to-end" system to produce bio-gasoline, bio-diesel, and associated chemicals from corn stover, forest residuals, and intercropped, forest-grown switchgrass.