

RD&D Awarded under USDA-DOE Joint Biomass Research & Development Initiative Solicitation

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Research and Development Projects	Year	Federal \$\$ Requested	Recipient/Main Proposer
1 To Develop a U.S. native grass breeding consortium to identify regional optimum biomass productivity on marginal lands and switchgrass performance in specific U.S. regions.	FY07	\$971,799	Rutgers, The State University of New Jersey (NJ)
2 To study altered plant compositions for improved biofuel production. This will include analysis of rice straw, sorghum, and switchgrass performance in specific U.S. regions.	FY07	\$982,589	Agrivida, Inc (MA)
3 To address genetic engineering of sugarcane for increased fermentable sugar yield from hemicellulosic biomass in Florida.	FY07	\$866,576	University of Florida (FL)
4 To identify and characterize plant genes involved in biosynthesis and deposition of cellulose and hemicellulose in plant walls, with a focus on switchgrass throughout the U.S.	FY07	\$839,909	Ceres, Inc. (CA)
5 To evaluate herbaceous and woody crops for use in thermochemical processing, specifically examining willow and switchgrass species grown throughout a wide range of geographies in the U.S.	FY07	\$883,290	Ceres, Inc. (CA)
6 To develop rapid solar-thermal chemical reactor systems for conversion of biomass to synthesis gas.	FY07	\$1,000,000	Regents of the University of Colorado (CO)
7 To develop advanced technology for low-cost ethanol from engineered cellulosic biomass.	FY07	\$999,889	North Carolina State University (NC)
8 To develop a microwave-assisted pyrolysis system for conversion of cellulosic biomass to bio-oils.	FY07	\$975,676	Regents of the University of Minnesota (MN)
9 To develop pathways to achieving U.S. bioenergy policy goals, develop economic costs, and environmental impacts, and identify potential technological bottlenecks.	FY07	\$715,340	Regents of the University of Minnesota (MN)
10 To research and analyze lignin as a facilitator during saccharification by brown rot fungi.	FY07	\$576,368	Regents of the University of Minnesota (MN)
11 To develop advanced ceramic materials for the separation and recovery of high-value pentose derivatives from cellulosic biomass using molecular imprinting.	FY07	\$999,964	University of Kentucky Research Foundation (KY)
12 To address catalytic conversion of biomass to fuels and chemicals using ionic liquids.	FY07	\$1,000,000	Battelle Memorial Institute, on behalf of DOE's Pacific Northwest National Laboratory
13 To research and develop on-farm conversion of biomass to synthetic gas, combined heat and electric power, and fertilizer.	FY07	\$1,000,000	Packer Engineering (IL)
14 To demonstrate pelletizing forage crops and perennial grasses in the field to increase cellulosic ethanol production.	FY07	\$690,000	Kansas State University (KS)
15 To research and develop supercritical methods for biorefinery of rubber-bearing guadyule biomass.	FY07	\$743,904	The University of Akron (OH)
16 To develop a low-cost, high yield process for direct production of high energy density liquid fuel from biomass. Synergistic use of solar hydrogen with biomass will be explored.	FY07	\$1,000,000	Purdue University (IN)
17 To develop catalytic production of ethanol from biomass-derived synthesis gas.	FY07	\$944,899	Iowa State University (IA)
18 To develop more effective enzymatic conversion processes through nano-scale elucidation of molecular mechanisms and kinetic modeling.	FY07	\$998,943	Cornell University (NY)
19 To intergrate biomass gasification with catalytic partial oxidation for tar conversion.	FY07	\$820,035	GE Global Research (NY)
R&D Projects Total	FY07	\$17,009,181	
Demonstration Projects	Year	Federal \$\$ Requested	Recipient/Main Proposer
1 To provide a demonstration of commercial feasibility of anaerobic fermentation of biomass for the production of carboxylate salts and their conversion to keynotes.	FY07	\$600,000	Texas Engineering Experimental Station (TX)
2 To provide product diversification strategies for a new generation of biofuels and bio-products.	FY07	\$839,909	Washington State University (WA)
Demonstration Projects Total	FY07	\$1,439,909	
RD&D Projects Total	FY07	\$18,449,090	