	Project Title	Year	Dept.	Roadmap Main Category	Roadmap Sub- Category	Federal \$\$ Requested	Recipient/Main Proposer
1	A Second Generation Dry Mill Biorefinery	FY02	DOE	Processing & Conversion	Biorefinery Integration	\$5,488,000	Broin and Associates, Inc.
2	A New Biorefinery Platform Intermediate	FY02	DOE	Processing & Conversion	Biorefinery Integration	\$6,807,000	Cargill, Inc.
3	Making Industrial Bio-Refining Happen!	FY02	DOE	Processing & Conversion	Biorefinery Integration	\$26,010,000	Cargill Dow
4	Integrated Corn-Based Bio Refinery (ICBR) Project	FY02	DOE	Processing & Conversion	Biorefinery Integration	\$18,184,000	DuPont
5	Advanced Biorefining of Distiller's Grain and Corn Stover Blends: Pre- Commercialization of a Biomass-Derived Process Technology	FY02	DOE	Processing & Conversion	Biorefinery Integration	\$17,734,000	Abengoa Bioenergy Corporation
6	Separation of Corn Fiber and Conversion to Fuels and Chemicals, Phase II: Pilot-Scale Operations	FY02	DOE	Processing & Conversion	Biorefinery Integration	\$2,427,000	National Corn Growers Association
7	Value Added Products from Hemicellulose Utilization in Dry Mill Ethanol Plants	FY02	USDA	Cross Cutting	Cross Cutting	\$2,000,000	Iowa Corn Promotion Board
8	Continuous Isosorbide Production from Sorbitol Using Solid Acid Catalysis	FY02	USDA	Cross Cutting	Cross Cutting	\$700,000	Iowa Corn Promotion Board
	FY02 Total					\$79,350,000	

Project Title		Dept.	Category	Roadmap Sub- Category	Federal \$\$ Requested	Recipient/Main Proposer
1 Integration of Leading Biomass Pretreatment Technologies with Enzymatic Digestion and Hydrolyzate Fermentation Thermotolerant Biocatalyst for Biomass	FY03	DOE	Processing & Conversion	Bioconversion	\$1,882,866	Trustees of Dartmouth College
2 Engineering Thermotolerant Biocatalyst for Biomass Conversion to Products	FY03	DOE	Processing & Conversion	Bioconversion	\$1,437,620	University of Florida (Gainsville, FL)
3 Demonstration of the PureVision Biorefinery	FY03	DOE	Product Uses & Distribution	Biorefinery Integration	\$2,000,000	Pure Vision Technology, Inc (Ft. Lupton, CO)
4 Platform Chemicals from an Oilseed Biorefinery	FY03	DOE	Processing & Conversion	Bioproducts	\$1,877,176	Cargill, Inc. (Minneapolis, MN)
5 Advanced Biorefinery Feedstocks	FY03	USDA	Feedstock Production	Feedstocks	\$2,000,000	Metabolix, Inc. (Cambridge, MA)
6 Research and Demonstration of Anaerobic System on a Large Dairy Farm	FY03	USDA	Processing & Conversion	Anaerobic Digestion	\$761,385	Utah State University
7 Animal Waste Management-Chicken Litter to Energy	FY03	USDA	Processing & Conversion	Thermochemical Conversion	\$1,136,936	Earth Resources, Inc.
8 New Technologies for the Production of Methyl Esters	FY03	USDA	Processing & Conversion	Thermochemical Conversion	\$1,826,648	West Central Cooperative (Ralston, IA)
9 Heterogeneous Catalyst Development for Biodiesel Synthesis	FY03	USDA	Processing & Conversion	Thermochemical Conversion	\$894,203	Clemson University (Clemson, SC)
D Design and Demonstration of a Commerical Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes	FY03	USDA	Processing & Conversion	Thermochemical Conversion	\$204,603	New Energy Solutions, Inc.
1 Biomass Research and Development for the Production of Fuels, Chemicals, and Improved Cattle Feed.	FY03	USDA	Processing & Conversion	Biorefinery Intergration	\$1,400,000	Archer Daniels Midland Co. (Quincy, IL; Decator, IN)
2 Grain Value Process: Pre-Commercialization Trials	FY03	USDA	Processing & Conversion	Biorefinery Intergration	\$1,763,160	Grain Value, LLC (St. Paul, MN)
3 Coupled Processes for Bioenergy Production: Biological Hydrogen Links with Microbial Fuel Cells	FY03	USDA	Processing & Conversion	Bioconversion	\$614,913	Pennsylvania State University (University Park,
Biopolymers and Other Value-Added Products from Distillers' Dried Grains	FY03	USDA	Processing & Conversion	Bioconversion	\$1,000,000	Iowa State University (Ames, IA)
5 Biomass-Fired District Energy: A Source of Economic Development and Energy Security	FY03	USDA	Processing & Conversion	Cross Cutting	\$1,286,768	Local Energy (Tesuque, NM
6 Steps Towards a Biorefinery Industry in Vermont	FY03	USDA	Processing & Conversion	Cross Cutting	\$746,912	Vermont's Alternative Energy Corporation
7 Biomass for Tomorrow's Energy and Greenhouse Gas Management Needs: An Economic, Engineering and Environmental Appraisal of Opportunities & Policies	FY03	USDA	Processing & Conversion	Cross Cutting	\$716,338	Texas Agricultural Experiment Station (College
B Biomass Cogeneration Demonstration Plant at Central Minnesota Ethanol Cooperative	FY03	USDA	Processing & Conversion	Cross Cutting	\$2,000,000	Sebesta, Blomberg & Associates, Inc.
Feasibility of an Integral System for Improving the Economic and Environmental Performance of Poultry and Ethanol Production in North Alabama	FY03	USDA	Processing & Conversion	Cross Cutting	\$254,274	T.R. Miles, Technical Consultants, Inc. (Portland,
FY03 Total					\$23,803,802	

	Project Title	Year	Dept.	Roadmap Main Category	Roadmap Sub- Category	Federal \$\$ Requested	Recipient/Main Proposer
1	Trace Metal Scavenging from Biomass Syngas with Novel High-Temperature Sorbents	FY04	DOE	Processing & Conversion	Thermochemical Conversion	\$769,376	6 Southern Research Institute
	Biomass Gas Cleanup Using a Therminator	FY04		Processing & Conversion	Thermochemical Conversion	\$2,000,000	0 Research Triangle Institute
	Catalytic Hydrothermal Gasification for Eastman Kingsport Chemical Production Plant	FY04	DOE	Processing & Conversion	Thermochemical Conversion	\$1,142,925	5 ANTARES Group Inc
	Engineering New Catalysts for In-Process Elimination of Tars	FY04		Processing & Conversion	Thermochemical Conversion		2 Gas Technology Institute
5	Thermochemical Conversion of Corn Stover	FY04	DOE	Processing & Conversion	Thermochemical Conversion	\$1,989,36	5 Bioengineering Resources, Inc.
	Advancement of High Temperature Black Liquor Gasification Technology	FY04	DOE	Processing & Conversion	Thermochemical Conversion		0 Weyerhaeuser Company
	Cost-Benefit Analysis of Gasification for Fuels/Chemicals Production at Kraft Pulp Mills	FY04		Cross Cutting	Cross Cutting		0 Princeton University
	Investigation of Pressurized Entrained Flow Draft Black Liquor Gasification in an Industrially Relevant Environment			Processing & Conversion	Thermochemical Conversion		9 University of Utah
	New Sustainable Chemistry for Adhesives, Elastomers and Foams	FY04	DOE	Product Uses & Distribution	End-Products		0 Rohm and Haas Co.
	Integrated Size Reduction and Separation to Pre-Fractionate Biomass		USDA	Feedstock Production	Feedstock Handling		9 University of Tennessee
	Biomass Opportunity for Imperial, Nebraska Region: What is the Value?	FY04	USDA	Public Policy	Cross Cutting		0 Imperial Young Farmers & Ranch
	Integrated Feedstock Supply Systems for Corn Stover Biomass	FY04	USDA	Feedstock Production	Feedstock Handling	\$1,999,724	4 Iowa State University
	Fuel Cell Systems Operating on 100% Bio-Liquid Fuels			Product Uses & Distribution	End-Products	\$965,16 ⁻	1 Technology Management Inc.
	BioSep: A New Ethanol Recovery Technology for Small-Scale Rural Production of Ethanol from Biomass			Product Uses & Distribution	End-Products		5 Membrane Technology and Research, Inc.
	Hayfork Biomass Utilization and Value Added Model for Rural Development			Public Policy	Cross Cutting		0 Watershed Research and Training Center
	Development of a Wood Preservative System from Wood BioOil Fractions		USDA	Product Uses & Distribution	Cross Cutting		1 Mississippi State University, Forest Products Department
	Technology Transfer and Education Programs for the Southern U.S.			Product Uses & Distribution	Cross Cutting	\$1,075,00 ⁻	1 USDA Forest Service Southern Research Station
	Development of Existing Biomass Resources through Education of Key Supply Bottlenecks		USDA	Public Policy	Education and Outreach		1 University of Minnesota
	Sustainable Forestry for Bioenergy and Biobased Products			Public Policy	Education and Outreach		3 Southern Forest Research Partnership Inc.
	Development of Workable Incentive Systems for Biobased Products, Biofuels and Biopower			Public Policy	Incentives		0 North Carolina State University
	Small-scale, Biomass Fired Gas Turbine Plants Suitable for Distributed and Mobile Power Generation			Public Policy	Economic Analysis		3 Electric Power Research Institute
13	High Purity Hydrogen from Farm Animal Wastes	FY04	USDA	Processing & Conversion	Thermochemical Conversion		1 New Energy Solutions, Inc.
	FY04 Total					\$26,357,05	δ

Project Title	Year	Dept.	Roadmap Main Category	Roadmap Sub- Category	Federal \$\$ Requested	Recipient/Main Proposer
1 Increasing the Potential for the Utilization of Cellulose from Straw for Biofuel and Bioproduct Production	FY05	USDA	Feedstocks Production	Biotechnology and Plant Physiology	\$693,285	University of Idaho
2 Development of Low-Lignin Switchgrass for Improved Ethanol Production	FY05	USDA	Feedstocks Production	Biotechnology and Plant Physiology	\$670,166	The Samuel Roberts Noble Foundation
3 Implementation of a Scale-Up Pilot Plant Demonstration Facility toward the Commercialization of Florida Biomass Feedstocks for Ethanol Production	FY05	USDA	Feedstocks Production	Feedstock Handling		The Tampa Bay Area Ethanol Consortium
4 Environmental and Economic Performance of an Integrated, Digester- Cogeneration-Value-Added Process	FY05	USDA	Product Uses & Distribution	End-Products and Distribution	\$805,938	Clarkson University
5 Biomass Gasification: A Comprehensive Demonstration of a Community-Scale Biomass Energy System	FY05	USDA	Product Uses & Distribution	End-Products and Distribution	\$1,896,493	University of Minnesota, Morris
 6 Conversion of BioDiesel Derived Glycerol to Glycidol, Glycerol Carbonate and C- 3 Oxygenates by Catalytic and Biocatalytic Pathways 	FY05	USDA	Product Uses & Distribution	End-Products and Distribution	\$1,606,265	North Carolina State University Department of
7 Carbon Fiber from Biomass Lignins	FY05	USDA	Product Uses & Distribution	End-Products and Distribution	\$1,083,770	Oak Ridge National Laboratory
8 Environmental Enhancement through Corn Stover Utilization	FY05	USDA	Product Uses & Distribution	End-Products and Distribution	\$1,853,996	Iowa State University
9 Biopower Demonstration and Educational Outreach	FY05	USDA	Public Policy		\$990,500	University of Montana College of Technology
10 Incentives for Biomass Commercialization: Pioneering Markets for Biomass Using Renewable Energy Certificates, Emission Reduction Credits and	FY05	USDA	Public Policy		\$449,993	Environmental Resources Trust
11 Bioenergy: Optimum Incentives and Sustainability of Non-Industrial Private Forests in the U.S. South	FY05	USDA	Public Policy		\$656,525	University of Florida
FY05 Total					\$12,626,931	

Project Title		-	Roadmap Main Category	Roadmap Sub- Category	Federal \$\$ Requested	Recipient/Main Proposer
Energy Corn Consortium	FY06	DOE	Public Policy		\$1,926,970	Edenspace Systems Corporation
2 Novel Enzyme Products for the Conversion of Defatted Soybean Meal to Ethanol	FY06	DOE	Processing and Conversion		\$1,259,000	Lucigen Corporation
3 Value Prior to Pulping	FY06	DOE	Preprocessing and Conversion		\$1,521,763	Center for Technology Transfer, Inc
Overcoming Barriers to Facilitate the Commercialization of Willow Biomass Crops as a Feedstock for Biofuels, Bioenergy and Bioproducts	FY06	USDA	Feedstocks Production		\$813,450.00	SUNY College of Environmental Science and
5 Biotechnological Improvement of Switchgrass	FY06	USDA	Feedstocks Production		\$1,572,460	Ceres, Inc.
Moisture Management in Polylactide and Polylactide Copolymers	FY06	USDA	Processing and Conversion		\$1,312,389.00	Drexel University
High-Value Chemical Production from Biodiesel-Derived Glycerol	FY06	USDA	Processing and Conversion		\$2,000,000	Virent Energy Systems, Inc.
3 Lignin Conversion to Value-Added Materials -	FY06	USDA	Processing and Conversion		\$579,340.00	The Pennsylvania State University
Adding Value to Commercial Polymers through the Incorporation of Biomass Derived Chemistries	FY06	USDA	Processing and Conversion		\$1,762,157.44	Iowa Corn Promotion Board
Thermoplastics composites Reinforced with Natural Fibers and Inorganic Nano- Particles	FY06	USDA	Product Uses & Distribution		\$791,865.00	Louisiana State University Agricultural Center
A Plant-based Production System for Methacrylate	FY06	USDA	Feedstocks Production		\$1,523,530	Ceres, Inc.
2 Enhancing Animal Feed Values in Corn Dry Mills with Biobased Solvents	FY06	USDA	Preprocessing and Conversion		\$400,000	Argonne National Laboratory
3 Strategic Development of Biomass in the Western State	FY06	USDA	Public Policy		\$290,246	Western Governors' Association
Technical Area 4; Expansion of ethanol production: evaluation of costs and benefits to rural communities in the Upper Mississippi River Basin	FY06	USDA	Processing and Conversion		\$676,722	Southern Illinois University
Analysis for Strategic Guidance Demonstrating the Value of Waste Biomass Feedstocks for Fuel Ethanol Production from Energy Policy Perspectives	FY06	USDA	Product Uses & Distribution		\$250,001	Clarkson University
Life Cycle Assessment to Improve the Sustainability and Competitive Position of Biobased Chemicals	FY06	USDA	Product Uses & Distribution		\$376,616	Michigan State University
7 Strategic Positioning of Biofuels in the Economic Context of Agriculture, Crude Oil, and Auto-Manufacturing	FY06	USDA	Product Uses & Distribution		\$435,997.00	North Carolina State University
FY06 Total					\$17,492,507	
FY02-06 Total					\$159,630,296	, ,