

	Project Title	Solicitation Year	Dept.	Roadmap Main Category	Roadmap Sub-Category	Recipient/Main Proposer	Other Partners
1	A Second Generation Dry Mill Biorefinery	FY02	DOE	Processing and Conversion	Biorefinery Integration	Broin and Associates, Inc.	NREL; South Dakota State University
2	A New Biorefinery Platform Intermediate	FY02	DOE	Processing and Conversion	Biorefinery Integration	Cargill, Inc.	Codexis, Incorporated Pacific Northwest National Laboratory (PNNL)
3	Making Industrial Bio-Refining Happen!	FY02	DOE	Processing and Conversion	Biorefinery Integration	Cargill Dow	Genencor, Iogen
4	Integrated Corn-Based Bio Refinery (ICBR) Project	FY02	DOE	Processing and Conversion	Biorefinery Integration	DuPont	Diversa; NREL; Michigan State University, E. I. du Pont de Nemours & Co., Inc.
5	Advanced Biorefining of Distiller's Grain and Corn Stover Blends: Pre-Commercialization of a Biomass-Derived Process Technology	FY02	DOE	Processing and Conversion	Biorefinery Integration	Abengoa Bioenergy Corporation	NREL; Novozymes NA, Inc.; VTT-Finland
6	Separation of Corn Fiber and Conversion to Fuels and Chemicals, Phase II: Pilot-Scale Operations	FY02	DOE	Processing and Conversion	Biorefinery Integration	National Corn Growers Association	Pacific Northwest National Laboratory Archer Daniels Midland, Co.
7	Value Added Products from Hemicellulose Utilization in Dry Mill Ethanol Plants	FY02	USDA	Cross Cutting	Cross Cutting	Iowa Corn Promotion Board	Minnesota Corn Research & Promotion Council, Ohio Corn Marketing Program, PNNL, INEEL
8	Continuous Isosorbide Production from Sorbitol Using Solid Acid Catalysis	FY02	USDA	Cross Cutting	Cross Cutting	Iowa Corn Promotion Board	Pacific Northwest National Laboratory Archer Daniels Midland, Co.
1	Integration of Leading Biomass Pretreatment Technologies with Enzymatic Digestion and Hydrolyzate Fermentation Thermotolerant Biocatalyst for Biomass Conversion to Products	FY03	DOE	Processing and Conversion	Bioconversion	Trustees of Dartmouth College	Auburn University, Michigan State University, Purdue University, Texas A&M University, The University of British Columbia, NREL, Genencor International
2	Engineering Thermotolerant Biocatalyst for Biomass Conversion to Products	FY03	DOE	Processing and Conversion	Bioconversion	University of Florida (Gainesville, FL)	
3	Demonstration of the PureVision Biorefinery	FY03	DOE	Product Uses & Distribution	Biorefinery Integration	Pure Vision Technology, Inc. (Ft. Lupton, CO)	Genencor, International, Western Research Institute, Membrane Technology and Research, ENTEK Extruders, Tennessee Valley Authority, The Harris Group, Inc., NREL, State University of New York
4	Platform Chemicals from an Oilseed Biorefinery	FY03	DOE	Processing and Conversion	Bioproducts	Cargill, Inc. (Minneapolis, MN)	Bio-Technical Resources, Materia, Batelle Memorial Institute.
5	Advanced Biorefinery Feedstocks	FY03	USDA	Feedstock Production	Feedstocks	Metabolix, Inc. (Cambridge, MA)	Iowa State University
6	Research and Demonstration of Anaerobic System on a Large Dairy Farm	FY03	USDA	Processing and Conversion	Anaerobic Digestion	Utah State University	USDA's Natural Resources Conservation Service (NRCS)
7	Animal Waste Management-Chicken Litter to Energy	FY03	USDA	Processing and Conversion	Thermochemical Conversion	Earth Resources, Inc.	Gas Technology Institute (GTI), University of Georgia
8	New Technologies for the Production of Methyl Esters	FY03	USDA	Processing and Conversion	Thermochemical Conversion	West Central Cooperative (Ralston, IA)	Iowa State University, Ames Laboratory
9	Heterogeneous Catalyst Development for Biodiesel Synthesis	FY03	USDA	Processing and Conversion	Thermochemical Conversion	Clemson University (Clemson, SC)	RTI, Sud-Chemie, Inc., Biodiesel Industries, Inc.
10	Design and Demonstration of a Commercial Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes	FY03	USDA	Processing and Conversion	Thermochemical Conversion	New Energy Solutions, Inc.	REB Research & Consulting, Panamerican Enterprises, Inc., Cornell University, AA Dairy
11	Biomass Research and Development for the Production of Fuels, Chemicals, and Improved Cattle Feed.	FY03	USDA	Processing and Conversion	Biorefinery Intergration	Archer Daniels Midland Company (Quincy, IL; Decator, IN)	USDA's Agricultural Research Service (ARS)
12	Grain Value Process: Pre-Commercialization Trials	FY03	USDA	Processing and Conversion	Biorefinery Intergration	Grain Value, LLC (St. Paul, MN)	DENCO, LLC, MCGA & MCRPC, University of Minnesota

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13	Coupled Processes for Bioenergy Production: Biological Hydrogen Links with Microbial Fuel Cells	FY03	USDA	Processing and Conversion	Bioconversion	Pennsylvania State University (University Park, PA)	NREL
14	Biopolymers and Other Value-Added Products from Distillers' Dried Grains	FY03	USDA	Processing and Conversion	Bioconversion	Iowa State University (Ames, IA)	South Dakota State University, Midwest Grain Processing
15	Biomass-Fired District Energy: A Source of Economic Development and Energy Security	FY03	USDA	Processing and Conversion	Cross Cutting	Local Energy (Tesuque, NM)	None
16	Steps Towards a Biorefinery Industry in Vermont	FY03	USDA	Processing and Conversion	Cross Cutting	Vermont's Alternative Energy Corporation (Williston, VT)	Intervale Foundation, Foster Brothers Farm, Intervale Compost Products, University of Vermont
17	Biomass for Tomorrow's Energy and Greenhouse Gas Management Needs: An Economic, Engineering and Environmental Appraisal of Opportunities and Policies	FY03	USDA	Processing and Conversion	Cross Cutting	Texas Agricultural Experiment Station (College Station, TX)	None
18	Biomass Cogeneration Demonstration Plant at Central Minnesota Ethanol Cooperative	FY03	USDA	Processing and Conversion	Cross Cutting	Sebesta, Blomberg & Associates, Inc.	Primenergy, LLC, Central Minnesota Ethanol Cooperative
19	Feasibility of an Integral System for Improving the Economic and Environmental Performance of Poultry and Ethanol Production in North Alabama	FY03	USDA	Processing and Conversion	Cross Cutting	T.R. Miles, Technical Consultants, Inc. (Portland, OR)	Tennessee Valley Authority Public Power Institute, Sparks Companies, Inc., Energy Products of Idaho, Auburn Poultry Science, Tennessee Valley Resource Conservation Council
1	Trace Metal Scavenging from Biomass Syngas with Novel High Temperature Sorbents	FY04	DOE	Processing and Conversion	Thermochemical Conversion	Southern Research Institute	Southern Research Institute (SRI), University of Alabama Birmingham (UAB), Southern Company (SC) including the Power Systems Development Facility (PSDF) staff, and the Gas Technology Institute (GTI).
2	Biomass Gas Cleanup Using a Therminator	FY04	DOE	Processing and Conversion	Thermochemical Conversion	Research Triangle Institute	Cratech, Clemson University and Süd-Chemie (SCI)
3	Catalytic Hydrothermal Gasification for Eastman Kingsport Chemical Production Plant	FY04	DOE	Processing and Conversion	Thermochemical Conversion	ANTARES Group Inc	Eastman Chemical, the Antares Group, PNNL, and Galleon Engineering.
4	Engineering New Catalysts for In-Process Elimination of Tars	FY04	DOE	Processing and Conversion	Thermochemical Conversion	Gas Technology Institute	
5	Thermochemical Conversion of Corn Stover	FY04	DOE	Processing and Conversion	Thermochemical Conversion	Bioengineering Resources, Inc.	Chippewa Valley Ethanol, Katzen International, Burns and McDonnell and Bioengineering Resources, Inc.
6	Advancement of High Temperature Black Liquor Gasification Technology	FY04	DOE	Processing and Conversion	Thermochemical Conversion	Weyerhaeuser Company	Chemrec AB, The Institute of Paper Science & Technology at Georgia Tech, Simulent, Inc., Pacific Simulation, Ltd
7	Cost-Benefit Analysis of Gasification for Fuels/Chemicals Production at Kraft Pulp Mills	FY04	DOE	Cross Cutting	Cross Cutting	Princeton University	
8	Investigation of Pressurized Entrained Flow Draft Black Liquor Gasification in an Industrially Relevant Environment	FY04	DOE	Processing and Conversion	Thermochemical Conversion	University of Utah	Simulent, Inc.
9	New Sustainable Chemistry for Adhesives, Elastomers and Foams	FY04	DOE	Products Uses and Distribution	End-Products	Rohm and Haas Co.	Virginia Polytechnic Institute and State University (Professor Timothy E. Long), Eastman Chemicals (Dale E. O'Dell), the USDA Eastern Regional Research Center (Dr. Thomas A. Foglia) and DOE/USDA
1	Integrated Size Reduction and Separation to Pre-Fractionate Biomass	FY04	USDA	Feedstock Production	Feedstock Handling	University of Tennessee	Oak Ridge National Laboratory (ORNL) First American Scientific Co. (FASC)
2	Biomass Opportunity for Imperial, Nebraska Region: What is the Value?	FY04	USDA	Public Policy Measures to Support biomass Development	Cross Cutting	Imperial Young Farmers & Ranch	

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3	Integrated Feedstock Supply Systems for Corn Stover Biomass	FY04	USDA	Feedstock Production	Feedstock Handling	Iowa State University	The University of Wisconsin Madison, the USDA Dairy Forage Research Center, the USDA Corn Insect and Crop Genetics Research Unit, and the World Resources Institute, with industry partners John Deere and Genencor International
4	Fuel Cell Systems Operating on 100% Bio-Liquid Fuels	FY04	USDA	Products Uses and Distribution	End-Products	Technology Management Inc.	
5	BioSep: A New Ethanol Recovery Technology for Small Scale Rural Production of Ethanol from Biomass	FY04	USDA	Product Uses & Distribution	End-Products	Membrane Technology and Research, Inc.	Membrane Technology and Research, Inc. (MTR) has assembled a broad-based consortium that includes U.S. Environmental Protection Agency (EPA), Integrated Separation Solutions (ISS), Kraft Foods (Kraft), PFM Corporation (PFM), and a large wine producer
6	Hayfork Biomass Utilization and Value Added Model for Rural Development	FY04	USDA	Public Policy Measures	Cross Cutting	Watershed Research and Training Center	
7	Development of a Wood Preservative System from Wood BioOil Fractions	FY04	USDA	Products Uses and Distribution	Cross Cutting	Mississippi State University, Forest Products Department	Mississippi State University. Departments of Forest Products, Chemistry and Chemical Engineering; National Renewable Energy Laboratory; Chemical Specialties Inc., Renewable Oil International
8	Technology Transfer and Education Programs for the Southern U.S.	FY04	USDA	Products Uses and Distribution	Cross Cutting	USDA Forest Service Southern Research Station	
9	Development of Existing Biomass Resources through Education of Key Supply Bottlenecks	FY04	USDA	Public Policy Measures to Support biomass Development	Education and Outreach	University of Minnesota	Minnesota Logger Education Program, the Fond du Lac Tribal and Community College, the Minnesota Department of Natural Resources, WesMin USDA NRCS RC&D, the University of Minnesota College of Agricultural, Food and Environmental Sciences, College of Natural Resources, Center for Integration of Natural Resources and Agricultural Management, and Extension Service.
10	Sustainable Forestry for Bioenergy and Biobased Products	FY04	USDA	Public Policy Measures	Education and Outreach	Southern Forest Research Partnership Inc.	USDA Forest Service, Southern Research Station, the University of Florida, the Southern Region Cooperative Extension Service, and the Southern States Biobased Alliance of the Southern States Energy Board.
11	Development of Workable Incentive Systems for Biobased Products, Biofuels and Biopower	FY04	USDA	Public Policy Measures	Incentives	North Carolina State University	New Uses Council (NUC), Manufacturers Association (BMA), Environmental and Energy Study Institute (EESI)
12	Small-scale, Biomass Fired Gas Turbine Plants Suitable for Distributed and Mobile Power Generation	FY04	USDA	Public Policy Measures	Economic Analysis	Electric Power Research Institute	
13	Design and Demonstration of a Commercial Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes	FY04	USDA	Processing and Conversion	Thermochemical Conversion	New Energy Solutions, Inc.	REB Research & Consulting, Panamerican Enterprises, Inc., Cornell University, AA Dairy

	Project Title	Project Location	Start Date	End Date	Objective Statement
1	A Second Generation Dry Mill Biorefinery	Sioux Falls, SD	1/1/03	9/30/06	Enhance the economics of existing ethanol dry mills by increasing ethanol yields and creating additional co-products. Ethanol output +10-20% by 2006.
2	A New Biorefinery Platform Intermediate	Cargill: Minneapolis, MN Codexis: Redwood City, CA PNNL: Richland, WA	5/1/03	4/30/04	Develop a bio-based technology to produce a wide variety of products based on 3-HP acid, which is produced by the fermentation of carbohydrates.
3	Making Industrial Bio-Refining Happen!	Minnetonka, MN	1/3/03	12/1/06	Develop and validate process technology and sustainable agriculture systems to economically produce sugars and chemicals such as lactic acid and ethanol.
4	Integrated Corn-Based Bio Refinery (ICBR) Project	Wilmington, DE; Golden, CO; San Diego, CA, East Lansing, Michigan	4/1/03	3/31/07	Demonstrate the feasibility and practicality of alternative energy and chemicals from renewable sources. The project will develop a new bio refinery concept called the Integrated Corn-based Bio-Refinery.
5	Advanced Biorefining of Distiller's Grain and Corn Stover Blends: Pre-Commercialization of a Biomass-Derived Process Technology	St. Louis, MI and York, NE	1/2/03	12/31/07	Develop a novel biomass technology to use distiller's grain and corn stover blends to achieve significantly higher ethanol yields while maintaining the protein feed value.
6	Separation of Corn Fiber and Conversion to Fuels and Chemicals, Phase II: Pilot-Scale Operations	Decatur, IL, Richland, WA, St. Louis, MO	10/1/02	10/31/05	Develop an integrated process to recover the Hemicellulose, protein, and oil components from corn fiber for conversion into value-added products.
7	Value Added Products from Hemicellulose Utilization in Dry Mill Ethanol Plants	Richland, WA, Idaho Falls, ID	1/3/03	6/30/06	This project is aimed at integrating enzymatic hydrolysis, fermentation and aqueous phase catalysis to produce high value components from hemicellulose.
8	Continuous Isosorbide Production from Sorbitol Using Solid Acid Catalysis	Decatur, IL, Richland, WA	1/1/03	12/31/04	This project will establish the conceptual process flow diagrams, material and energy balances, capital estimates and operating costs for the conversion of sorbitol to isosorbide via pilot plant operations.
1	Integration of Leading Biomass Pretreatment Technologies with Enzymatic Digestion and Hydrolyzate Fermentation Thermotolerant Biocatalyst for Biomass Conversion to Products	Hanover, NH	4/1/04	3/31/07	This project will develop integrated pretreatment, fermentation, and enzymatic hydrolysis data for leading biomass pretreatment technologies on a common basis, develop models to predict the performance of each unit operation, relate performance to key features of biomass and catalysts, and disseminate results.
2	Engineering Thermotolerant Biocatalyst for Biomass Conversion to Products	Gainesville, FL	9/1/03	8/31/06	The primary objective of this project is to construct novel thermotolerant biocatalysts that function optimally under environmental conditions that are also optimal for the activity of fungal cellulases.
3	Demonstration of the PureVision Biorefinery	Ft. Lupton, CO	TBD	TBD	This project will address Phase I of a two-phase project with the overall objective of developing the PureVision technology to pilot scale and demonstration. Phase I is process development and includes optimizing test parameters, testing various separation technologies, producing a design for the pilot-scale unit, and determining the overall economic feasibility of the process.
4	Platform Chemicals from an Oilseed Biorefinery	Minneapolis, MN			Develop a novel platform of industrial chemicals based on applications of biocatalysis and chemistry that will serve as the foundations for an oilseed biorefinery or an integrated carbohydrate/oilseed biorefinery.
5	Advanced Biorefinery Feedstocks	Cambridge, MA	10/3/04	Sept.-06	The objective of the project is to develop a biomass crop which can be converted into energy and a new family of biodegradable, biobased polymers.
6	Research and Demonstration of Anaerobic System on a Large Dairy Farm	Logan, UT	Sept.-03	Aug.-05	Proving a new type of anaerobic digester for animal manure by producing biogas more efficiently and generating electricity; thus creating new industry in rural communities
7	Animal Waste Management-Chicken Litter to Energy	Carnesville, GA	Oct.-03	Sept.-05	The primary objective is to develop cost-effective, environmentally sound thermochemical conversion technologies to convert biomass feedstocks (poultry litter) into useful power, heat and potential fuels and products.
8	New Technologies for the Production of Methyl Esters	Ralston, IA	Oct.-03	Sept.-05	New technologies for production of methyl esters
9	Heterogeneous Catalyst Development for Biodiesel Synthesis	Clemson, SC	Oct.-03	Sept.-06	Heterogeneous catalyst development for biodiesel synthesis
10	Design and Demonstration of a Commercial Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes	Pittsfield, MA	Jan.-04	Dec.-06	Design and Demonstration of a Commercial Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes
11	Biomass Research and Development for the Production of Fuels, Chemicals, and Improved Cattle Feed.	Quincy, IL, Decatur, IN	Jan.-04	Dec.-06	To expand ethanol production while ensuring adequate feed supply to the cattle market from greater utilization of pretreated lignocellulosics derived from current crops and existing agricultural processing operations.
12	Grain Value Process: Pre-Commercialization Trials	St. Paul, MN	Oct.-03	Oct.-07	The project seeks to evaluate and advance to commercialization a novel biorefinery process to fractionate and refine corn grain. The resulting more valuable coproducts-ethanol, protein, yeast, and germ or oil-would sell into large, established markets.

	Project Title	Project Location	Start Date	End Date	Objective Statement
13	Coupled Processes for Bioenergy Production: Biological Hydrogen Links with Microbial Fuel Cells	University Park, PA	Sept.-03	Aug.-06	It is proposed to link biohydrogen production from biomass to direct energy production in Microbial Fuel Cells in order to provide a new source of hydrogen, and make the process more economical.
14	Biopolymers and Other Value-Added Products from Distillers' Dried Grains	Ames, IA	Oct.-03	Sept.-05	The overall objective is to develop value-added products from distillers' dried grains.
15	Biomass-Fired District Energy: A Source of Economic Development and Energy Security	Tesuque, NM	Oct.-03	Sept.-04	The project will combine state of the art technical design with the best methods and practices for local economic development to create a market driven approach for accelerating demand for new biomass projects
16	Steps Towards a Biorefinery Industry in Vermont	Williston, VT	Sept.-03	Sept.-05	The general goal of the project is to define avenues for development of a biorefinery industry in Vermont.
17	Biomass for Tomorrow's Energy and Greenhouse Gas Management Needs: An Economic, Engineering and Environmental Appraisal of Opportunities and Policies	College Station, TX	Sept.-03	Aug.-06	The project deals with the conversion of biomass into feedstocks for biofuel and bioenergy product generation. Specially, the project involves possible on-farm energy generation from largely animal wastes, off-farm electrical generation and processing of biomass into liquid fuels
18	Biomass Cogeneration Demonstration Plant at Central Minnesota Ethanol Cooperative	Roseville, MN	Sept.-03	Aug.-06	The project will design, develop and construct a biomass energy plant in a currently operating ethanol plant that will co-generate heat and electricity using a steam turbine based on gasification of unwanted syrupwaste and forest residues.
19	Feasibility of an Integral System for Improving the Economic and Environmental Performance of Poultry and Ethanol Production in North Alabama	Portland, OR	Aug.-03	Jul.-04	This one-year project will assess the feasibility of an integrated ethanol and poultry production system in north Alabama that uses poultry litter as an alternative source of process energy for corn/ethanol production and is projected to improve the overall economic and environmental performance of both ethanol and poultry production.
1	Trace Metal Scavenging from Biomass Syngas with Novel High Temperature Sorbents	Birmingham, AL			Feasibility of an Integral System for Improving the Economic and Environmental Performance of Poultry and Ethanol Production in North Alabama
2	Biomass Gas Cleanup Using a Terminator	Research Triangle Park, NC			We propose to develop and demonstrate a novel fluidized-bed reactor system (terminator) to remove tar, ammonia and sulfur from raw biomass syngas from a pressurized fluidized-bed biomass gasifier. Since this system can accept particle-laden syngas, the particle filter can be installed downstream of the terminator block.
3	Catalytic Hydrothermal Gasification for Eastman Kingsport Chemical Production Plant	Landover, MD			Engineering New Catalysts for In-Process Elimination of Tars
4	Engineering New Catalysts for In-Process Elimination of Tars				
5	Thermochemical Conversion of Corn Stover	Fayetteville, AR			The purpose of this project is to develop and demonstrate at pilot scale an optimal gasification / fermentation process to utilize corn stover. A major emphasis will be placed on the integration of a stover ethanol facility with a conventional grain alcohol plant in the corn belt.
6	Advancement of High Temperature Black Liquor Gasification Technology				
7	Cost-Benefit Analysis of Gasification for Fuels/Chemicals Production at Kraft Pulp Mills	Princeton, New Jersey			
8	Investigation of Pressurized Entrained Flow Draft Black Liquor Gasification in an Industrially Relevant Environment	Lake City, UT			
9	New Sustainable Chemistry for Adhesives, Elastomers and Foams				We will pursue a biorefinery approach to produce novel soy-sugar polymers. Our program will develop products which can replace petrochemical-based polyurethane adhesives, elastomers and foams.
1	Integrated Size Reduction and Separation to Pre-Fractionate Biomass				
2	Biomass Opportunity for Imperial, Nebraska Region: What is the Value?				

	Project Title	Project Location	Start Date	End Date	Objective Statement
3	Integrated Feedstock Supply Systems for Corn Stover Biomass	Ames IA			The overall goal is to develop productive, efficient, and sustainable strategies for corn stover biomass as a primary feedstock for the bioeconomy of the 21st century, while significantly improving the rural agro industrial economy
4	Fuel Cell Systems Operating on 100% Bio-Liquid Fuels	Lake Shore Blvd. Cleveland, OH			Technology Management Inc. (TMI) proposes to build and operate a modular proof-of-concept solid oxide fuel cell (SOFC) power generation system capable of generating up to 1 kW of biopower from biomass or biofuels. Of specific interest are vegetable oil (e.g., soybean, corn, canola), biodiesel, and ethanol (produced from e.g., corn, sugarcane).
5	BioSep: A New Ethanol Recovery Technology for Small Scale Rural Production of Ethanol from Biomass	Menlo Park, CA			The technical approach proposed in this project is to integrate a pervaporation process that uses ethanol-selective membranes with a novel condensation technique called dephlegmation to produce a concentrated aqueous solution of ethanol. Dehydration of this concentrate using a commercial dehydration membrane yields fuel-grade ethanol.
6	Hayfork Biomass Utilization and Value Added Model for Rural Development	Hayfork, California			
7	Development of a Wood Preservative System from Wood BioOil Fractions	Starkville, MS			This project will develop a novel, technologically advanced approach to develop an environmentally benign wood preservative system with fuel as a by product. Both the BioOil preservative and fuel will diversify the range of products that can be produced from plentiful timber resources
8	Technology Transfer and Education Programs for the Southern U.S.	Athens, GA			
9	Development of Existing Biomass Resources through Education of Key Supply Bottlenecks	Brainerd, MN			We propose to develop educational modules based on increasing the economic feasibility of biomass harvest for four client groups: loggers/harvesters; natural resource professionals; landowners; and energy intensive businesses (wood drying kilns, limestone kilns, taconite plants etc).
10	Sustainable Forestry for Bioenergy and Biobased Products	Athens, GA			
11	Development of Workable Incentive Systems for Biobased Products, Biofuels and Biopower	Raleigh, NC			This project will develop a series of proposals for incentive systems designed to promote developing markets for biorefineries – entities which take organic feedstocks to produce biomass energy, biofuels, and/or biobased products
12	Small-scale, Biomass Fired Gas Turbine Plants Suitable for Distributed and Mobile Power Generation	Palo Alto, CA			For this proposal, EPRI and its industry team proposes to evaluate the economic benefits of using forestry residues, including those arising from the Healthy Forests Initiative, for generating power in small-scale, indirectly-fired, gas-turbine power plants
13	Design and Demonstration of a Commercial Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes	Pittsfield, MA			Design and Demonstration of a Commercial Prototype for Onsite Production of High Purity Hydrogen from Farm Animal Wastes