

NEWS MEDIA CONTACT: Tom Welch, 202/586-5806 FOR IMMEDIATE RELEASE Tuesday, October 19, 2004

## Hydrogen Research Projects Selected for \$75 Million in DOE Awards

Team Lead	Additional Team Members	Total DOE Amount*			
Solar Electrochemical Water Splitting (Photoelectrochemical)					
GE Global Research     (Niskayuna, NY)	• Caltech	\$3,000,042			
University of     California-Santa     Barbara     (Santa Barbara, CA)	National Renewable Energy Laboratory (NREL), GE Global Research	\$894,000			
MVSystems Inc.     (Golden, CO)	University of Hawaii , Intematix Corporation, Southwest Research Institute, Duquesne University, NREL, University of California- Santa Barbara	\$3,271,630			
<ul><li>Midwest     Optoelectronics</li><li>(Toledo, OH)</li></ul>	University of Toledo, NREL,     United Solar Ovonic Corporation	\$2,921,501			
	Solar Thermochemical Water Splitting				
• University of Colorado (Boulder, CO)	ETH-Swiss Federal Institute of Technology	\$1,200,000			
• Stirling Energy Systems, Inc. (Phoenix, AZ)	University of Alabama in Huntsville, Weizmann Institute of Technology, Concentrating Technologies, LLC, University of Massachusetts-Boston	\$803,438			
Science Applications     International     Corporation     (San Diego, CA)	Florida Solar Energy Center,     Universidad del Turabo,     University of Central Florida	\$3,999,805			

Solar Biological (Microorganisms)				
University of     California – Berkeley     (Berkeley, CA)	• None	\$1,200,000		
Advanced BioNutrition Corporation (Columbia, MD)	Brooklyn College of the City     University of New York, Clemson     University, Savannah River     Technology Center, SeaAg, Inc.,     University of Hawaii	\$4,278,198		
Montana State     University     (Bozeman, MT)	Pleotint, LLC	\$1,193,003		
Institute Biological     Energy Alternatives     (Rockville, MD)	• NREL	\$2,880,000		
Sma	ll Scale Natural Gas/Bio-derived Liqui	d Reformers		
GE Global Research     (Niskayuna, NY and Irvine, CA)	University of Minnesota, Argonne National Laboratory (ANL)	\$2,225,079		
H2Gen Innovations, Inc. (Alexandria, VA)	Sud-Chemie, Inc., Naval Research Lab, National Energy Technology Laboratory (NETL)	\$3,502,965		
Ohio State University     Research Foundation     (Columbus, OH)	• None	\$1,145,624		
The BOC Group, Inc.     (Murray Hill, NJ)	Membrane Reactor Technologies Ltd., HERA USA Inc.	\$2,476,801		
Electrolyzers				
SRI International     (Menlo Park, CA)	Institute of High-Temperature     Electrochemistry, SRI Consulting     Business Intelligence	\$1,827,984		
GE Global Research     (Niskayuna, NY)	Northwestern University,     Functional Coating Technology,     LLC.	\$2,853,285		
Ceramatec, Inc.     (Salt Lake City, UT)	Idaho National Engineering and Environmental Laboratory, Hoeganaes Corporation, University of Washington	\$1,915,535		
Arizona State     University     (Tempe, AZ)	• None	\$1,200,000		

Teledyne Energy     Systems     (Hunt Valley, MD)	Sandia National Laboratory	\$1,486,747		
Biomass and Hydrocarbon Gas Separation Technologies				
Gas Technology     Institute     (Des Plaines, IL)	NETL, University of Cincinnati, Wah Chang, Schott North America	\$2,690,474		
• Virent Energy Systems, LLC (Madison, WI)	• University of Wisconsin-Madison, Archer Daniels Midland Company, UOP LLC	\$1,942,739		
• University of Cincinnati (Cincinnati, OH)	The Ohio State University, New Mexico Institute of Technology	\$1,999,727		
United Technologies     Research Center     (East Hartford, CT)	University of North Dakota	\$1,046,690		
Media & Process     Technology, Inc.     (Pittsburgh, PA)	Johnson Matthey Catalyst,     ChevronTexaco, University of     Southern California	\$2,592,349		
• REB Research & Consulting (Ferndale, MI)	<ul> <li>Los Alamos National Laboratory, Iowa State University, NETL, Johnson Matthey, Inc.* (Westchester, PA)</li> </ul>	\$2,360,531		
• Pall Corporation (East Hills, NY and Cortland, NY)	ChevronTexaco, Colorado School of Mines, Oak Ridge National Laboratory (ORNL)	\$2,385,400		
	<b>Delivery Technologies</b>			
University of Illinois (Urbana, IL)	ORNL, University of Missouri- Rolla, Sandia National Laboratory	\$300,000		
• Air Product & Chemicals, Inc. (Allentown, PA)	United Technologies Research, Pennsylvania State University	\$4,661,968		
Nexant, Inc. (San Francisco, CA)	Air Liquide, ChevronTexaco, NREL, Gas Technology Institute, Pinnacle West, TIAX LLC	\$1,500,239		
• Secat, Inc. (Lexington, KY)	ORNL, American Society of Mechanical Engineers International, University of Illinois, Applied Thin Films, Inc, Columbia Gas, Chemical Composite Coatings International, LLC, Advanced Technology Corporation, Oregon Steel Mills/Napa Pipe Company, Schott North America – Regional R&D	\$1,650,000		

New Concepts     Research Corporation     (Dallas, TX)	Prometheus Energy Inc., H2     Storage Solutions, Inc., CCC     Group Inc., Chemithon     Constructors LLC, University of     Victoria, Department of     Mechanical Engineering	\$2,300,000		
Gas Equipment     Engineering     Corporation     (Milford, CT)	R&D Dynamics Corporation	\$2,000,000		
Analysis				
RCF Economic and Financial Consulting (Chicago, IL)	ANL, Air Products & Chemicals, Inc., Beyond Petroleum, World Resources Institute, University of Michigan, Ford Motor Company	\$3,616,634		
• Energy & Environmental Analysis, Inc. (Arlington, VA)	Brookhaven National Laboratory, Power and Energy Analytic Resources, Inc.	\$1,300,479		
Directed Technologies, Inc. (Arlington, VA)	Sentech, Inc., H2Gen Innovations, ChevronTexaco, Teledyne Energy Systems, Inc., University of Virginia	\$750,000		

<sup>\*</sup> Final amount subject to negotiation.