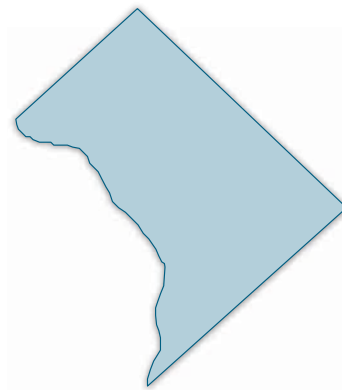




# Department of Energy Recovery Act State Memos

## Washington, DC



For questions about DOE's Recovery Act activities, please contact the DOE Recovery Act Clearinghouse:  
1-888-DOE-RCVY (888-363-7289), Monday through Friday, 9 a.m. to 7 p.m. Eastern Time  
<https://recoveryclearinghouse.energy.gov/contactUs.htm>.

*All numbers and projects listed as of June 1, 2010*



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# American Recovery and Reinvestment Act



## U.S. DEPARTMENT OF ENERGY • DISTRICT OF COLUMBIA RECOVERY ACT SNAPSHOT

Funding for selected DOE projects: \$608.1 million

DOE Recovery Act projects in District of Columbia: 44

Clean energy tax credits and grants: 5

For total Recovery Act jobs numbers in District of Columbia go to [www.recovery.gov](http://www.recovery.gov)

The **American Recovery & Reinvestment Act (ARRA)** is making a meaningful down payment on the nation's energy and environmental future. The Recovery Act investments in the District of Columbia reflect a broad range of clean energy projects, from energy efficiency and the smart grid to renewable energy and advanced battery manufacturing. Through these investments, the District of Columbia's businesses, non-profits, and local governments are creating quality jobs today and positioning the District of Columbia to play an important role in the new energy economy of the future.

### EXAMPLES OF DISTRICT OF COLUMBIA FORMULA GRANTS

Program	State Energy Program	Weatherization Assistance Program	Energy Efficiency Conservation Block Grants	Energy Efficiency Appliance Rebate Program
Award (in millions)	<b>\$22</b>	<b>\$8.1</b>	<b>\$9.6</b>	<b>\$0.6</b>
	The District of Columbia Government has received \$22 million in State Energy Program funds to invest in the District's energy efficiency and renewable energy priorities.	The District of Columbia has received \$8.1 million in Weatherization Assistance Program funds to scale-up existing weatherization efforts in the District, creating jobs, reducing carbon emissions, and saving money for the District of Columbia's low-income families. Over the course of the Recovery Act, the District of Columbia expects to weatherize nearly 800 homes. The program also includes workforce training and education as part of the District's efforts to develop a green workforce.	The District of Columbia has received \$9.6 million for Energy Efficiency and Conservation Block Grants (EECBG) to develop, promote, implement, and manage local energy efficiency programs.	The Government of the District of Columbia has been granted over \$560,000 for the Energy Efficient Appliance Rebate Program, which offers consumer rebates for purchasing certain ENERGY STAR® appliances. These energy efficient appliances reduce energy use and save money for families, while helping the environment and supporting the local economy.

### EXAMPLES OF DISTRICT OF COLUMBIA COMPETITIVE GRANTS AND TAX CREDITS

Award	<b>\$200 million</b>	<b>\$104.8 million</b>	<b>\$33.9 million</b>
	<b>Baltimore Gas and Electric</b> is leading the implementation of a <b>\$200 million Smart Grid Investment Grant</b> award to deploy advanced metering, dynamic pricing, and other grid improvements.	<b>Potomac Electric Power Company</b> in Washington, DC has been awarded a <b>Smart Grid Investment Grant of \$104.8 million</b> . The funds will support the installation of 570,000 smart meters in the Maryland service area, along with grid automation and communications technologies. The company has also been awarded a <b>\$44.6 million Smart Grid Investment Grant</b> to install 280,000 smart and smart grid infrastructure primarily in the District of Columbia, which will reduce peak electricity demand and improve grid efficiency.	The <b>National Rural Electric Cooperative Association</b> has been awarded <b>\$33.9 million</b> for a <b>Smart Grid Regional and Energy Storage Demonstration Project</b> to install and operate a suite of diverse smart grid technologies and aggregate the data from 17 rural electric cooperatives across 11 states, including Virginia.

## Funding Allocation Table (Figure 1)

Total dollar amounts in this document are accurate as of June 1, 2010. Please note that Recovery Act Programs are ongoing and the dollar amounts are subject to change. Recipient locations are based on project sites rather than recipients' headquarters locations.

Recovery Act Pillar	Flagship Program Names & Funding Type <sup>1</sup>	Number of Selections	Selected Amount (in millions) <sup>2</sup>
Energy Efficiency	<i>Weatherization Assistance Program (F)</i>	1	\$8.1
	<i>State Energy Program (F)</i>	1	\$22.0
	<i>Energy Efficiency and Conservation Block Grant (F)</i>	1	\$9.6
	<i>Energy Efficient Appliance Rebate (F)</i>	1	\$0.6
	<i>Industrial Energy Efficiency (CM)</i>	4	\$10.0
	<i>Additional Programs (CM &amp; C)</i>	1	\$1.1
	<b>TOTAL Energy Efficiency</b>	<b>9</b>	<b>\$51.4</b>
Renewable Energy	<i>Solar (CM)</i>	1	\$0.2
	<i>Wind (CM)</i>	1	\$0.3
	<i>Geothermal (CM)</i>	2	\$2.7
	<b>TOTAL Renewable Energy</b>	<b>4</b>	<b>\$3.2</b>
Electric Grid	<i>Smart Grid Investment and Demonstrations Project (CM)<sup>3</sup></i>	6	\$404.0
	<i>State and Local Energy Assurance and Regulatory Assistance (F)</i>	11	\$22.5
	<i>Smart Grid Workforce Training (CM)</i>	1	\$4.4
	<b>TOTAL Electric Grid</b>	<b>18</b>	<b>\$430.9</b>
Transportation	<i>Advanced Battery Manufacturing (CM)</i>	2	\$105.2
	<i>Clean Cities Alternative Fuel and Vehicles Program (CM)</i>	1	\$5.9
	<i>Advanced Fuels (CM)</i>	1	\$7.3
	<b>TOTAL Transportation</b>	<b>4</b>	<b>\$118.4</b>
Environmental Cleanup	<i>Environmental Management Contracts (C)</i>	1	\$0.4
	<b>TOTAL Environmental Cleanup</b>	<b>1</b>	<b>\$0.4</b>
Science and Innovation	<i>Small Business Research (SBIR/STTR) (CM)</i>	3	\$0.4
	<i>National Laboratory Facilities (C)</i>	2	\$1.6
	<i>Additional Programs</i>	3	\$1.8
	<b>TOTAL Science and Innovation</b>	<b>8</b>	<b>\$3.8</b>
<b>TOTAL - DOE Programs<sup>4</sup></b>	<b>44</b>	<b>\$608.1</b>	
Tax Credits/ Grants <sup>5</sup>	<i>Payments for Renewable Energy Generation in Lieu of Tax Credits (1603)</i>	3	\$1.7
	<i>Clean Energy Manufacturing Tax Credits (48C)</i>	2	\$0.8
	<b>TOTAL Tax Incentives</b>	<b>5</b>	<b>\$2.5</b>
<b>TOTAL - DOE/Treasury + DOE</b>	<b>49</b>	<b>\$610.6</b>	
<sup>1</sup> F=Formula Grant, CM=Competitive Grant, C=Contract			
<sup>2</sup> "Selected" indicates DOE has selected a potential funding recipient, which begins the process of negotiating an agreement. This does not necessarily indicate that a final agreement has been reached.			
<sup>3</sup> Projects may cross state boundaries, signifies HQ location.			
<sup>4</sup> Total does not include administrative funds.			
<sup>5</sup> Jointly administered by DOE and the U.S. Department of Treasury.			

## **ENERGY EFFICIENCY – 9 projects totaling \$51.4 million**

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*Helping millions of American families cut utility bills by making homes and appliances more energy efficient, expanding the home efficiency industry in sales and manufacturing. For more information, visit <http://www.energy.gov/recovery/energyefficiency.htm>.*

### **Award(s): \$8.1 million, Weatherization Assistance Program (WAP)**

#### **Location: Washington, DC**

The District of Columbia received \$8.1 million in Weatherization Assistance Program funds to scale-up existing weatherization efforts in the District, creating jobs, reducing carbon emissions and saving money for the District of Columbia's low-income families. Over the course of the Recovery Act, the District of Columbia expects to weatherize nearly 800 homes. The program also includes workforce training and education as part of the District's efforts to develop a green workforce.

### **Award(s): \$22 million, State Energy Program (SEP)**

#### **Location: Washington, DC**

The District of Columbia Government received \$22 million in State Energy Program funds to invest in the District's energy efficiency and renewable energy priorities. The District of Columbia is using Recovery Act SEP funding to improve energy efficiency in government buildings and support numerous public energy education initiatives. Recovery Act funds will enable the District of Columbia to replace existing mechanical and electrical equipment at various D.C. properties with new energy-efficient equipment and controls. SEP funds will also be used for building retrofits, including the installation of high-efficiency classroom HVAC units for six elementary schools. Funding will facilitate multiple education efforts designed to reach different populations within the District. In addition, the District of Columbia is using SEP Recovery Act funds to establish a "Live Near Your Work" Program which provides incentives to encourage homebuyers and renters to live within 1.5 miles of their workplace. This initiative facilitates walking and the use of public transportation.

### **Award(s): \$9.6 million, Energy Efficiency and Conservation Block Grant Program (EECBG)**

#### **Location: Washington, DC**

The District of Columbia received \$9.6 million for the Energy Efficiency and Conservation Block Grants Program (EECBG) to develop, promote, implement and manage local energy efficiency programs.

This project assists states, U.S. territories, Indian tribes, counties and cities to develop, promote, implement and manage localized energy efficiency programs through individual program grants. The project funds programs which reduce fossil fuel emissions in a manner that is environmentally sustainable and maximizes cost savings, reduces the total energy use of eligible entities and improves energy efficiency in the transportation, building and other appropriate sectors.

### **Award(s): \$568,000, Energy Efficient Appliance Rebate Programs**

#### **Location: Washington, DC**

The Government of the District of Columbia received over \$568,000 for the Energy Efficient Appliance Rebate Program, which offers consumer rebates for purchasing certain ENERGY STAR<sup>®</sup> appliances. These energy efficient appliances reduce energy use and save money for families, while supporting the local economy. The District of Columbia is implementing a mail-in rebate program to help residents replace older, inefficient appliances with ENERGY STAR qualified appliances. The

program began in late May 2010 and will last until funds are exhausted. Eligible products include refrigerators, clothes washers, dishwashers and electric heat pump water heaters.

**Award(s): \$1.6 million, Advanced Materials RD&D in Support of EERE Needs to Advance Clean Energy Technologies and Energy-Intensive Process R&D**

**Location: Arlington, VA**

Environ Holdings, Inc., in Arlington received \$1.6 million for Advanced Materials RD&D in support of EERE Needs to Advance Clean Energy Technologies and Energy-Intensive Process R&D. ENviron Holdings, Inc. is researching a fuel-flexible combustion system for refinery and chemical plant process heaters.

**Award(s): \$1.1 million, Ground Source Heat Pumps**

**Location: Washington, DC**

The Geothermal Heat Pump Consortium in Washington, DC was awarded \$1.1 million for ground source heat pumps. The funds are being used to create a national certification standard for all primary personnel involved in installation of GHP systems. The standard aims to increase customer confidence in the technology and to assure product quality and performance.

**Award(s): 2 totaling \$7.7 million, Improved Energy Efficiency for Information and Communication Technology**

**Location: Bethesda, MD and Manassas, VA**

- **Hewlett-Packard Company, Bethesda, MD - \$7.4 million**

Hewlett-Packard Company in Bethesda received \$7.4 million to conduct the necessary R&D, testing, manufacturing, market analysis and commercialization of a complete end-to-end power and cooling solution for data centers in the target size of 100 kW.

- **BAE Systems Information and Electronic Systems Integration, Manassas, VA - \$222,000**

BAE Systems Information and Electronic Systems Integration in Manassas received \$222,000 for Improved Energy Efficiency for Information and Communication Technology. With the funds, BAE is increasing computing communications energy efficiency through the control of network device energy consumption. This study is developing a model for Real-Time Optimal Control (RTOC) algorithms designed to automatically adjust network component power consumption based on service needs within a data or telecommunications center. The BTU savings potential for this project is equivalent to sequestering carbon into over 200,000 acres of pine forests per year.

**Award(s): \$734,000, Industrial Assessment Centers and Plant Best Practices**

**Location: Annapolis, MD**

The Maryland Energy Administration in Annapolis received \$734,000 for Industrial Assessment Centers and Plant Best Practices. The funds are being used to improve the energy efficiency of Maryland industrial facilities through waste heat recovery and combined heat and power, as well as leveraging aspects of the Federal Save Energy Now program, such as DOE training materials and software tools and combining them with additional state resources through the Maryland Technology Extension Service.



## **RENEWABLE ENERGY – 9 projects totaling \$5.7 million**

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*Developing the clean renewable resources in order to double our supply of renewable energy and boost domestic renewable manufacturing capacity. For more information, visit <http://www.energy.gov/recovery/renewableenergy.htm>.*

**Award(s): 3 payments totaling \$1.7 million from DOE / Treasury, 1603 Payments for Renewable Energy Generation**

**Location: Stafford, VA, Bealeton, VA and Springfield, VA**

\*For current number of 1603 awards, see the weekly update at <http://www.treas.gov/recovery/1603.shtml>

- **Ameresco, Inc., Stafford, VA - \$1.1 million**  
Ameresco, Inc., in Stafford received \$1.1 million for a landfill gas project.
- **New Day Farms, Inc., Bealeton, VA - \$578,000**  
New Day Farms, Inc., in Bealeton received \$578,000 for a solar heating project.
- **Shenandoah Sustainable Technologies, LLC, Springfield, VA - \$39,000**  
Shenandoah Sustainable Technologies, LLC, in Springfield received \$39,000 for a geothermal heat pump project.

**Award(s): 2 totaling \$814,000 from DOE / Treasury, Clean Energy Manufacturing Tax Credit (48C)**

**Location: Elkton, MD**

- **W.L. Gore & Associates, Inc., Elkton, MD - \$604,000**  
W.L. Gore & Associates, Inc., in Elkton received \$604,000 to re-equip two manufacturing facilities in New York and Maryland to produce the Gore Turbine Filter. The filter is used in natural gas turbines that deliver high fuel efficiency and low greenhouse gas emissions.
- **W.L. Gore & Associates, Inc., Elkton, MD - \$210,000**  
W.L. Gore & Associates, Inc., in Elkton received \$210,000 to retool a manufacturing facility to produce a key component of fuel cell systems used to improve fuel efficiency in vehicles.

**Award(s): 2 totaling \$2.7 million, Enhanced Geothermal Systems (EGS) Technology R&D**

**Location: Alexandria, VA and Greenbelt, MD**

- **Bob Lawrence & Associates, Inc., Alexandria, VA - \$1.5 million**  
Bob Lawrence & Associates, Inc., in Alexandria received \$1.5 million for Enhanced Geothermal Systems Technology R&D. This analysis measures the economic, social and environmental costs and benefits of nationwide geothermal heat pump deployment, employment potential, energy and environmental impacts.
- **Array Information Technology, Greenbelt, MD - \$1.2 million**  
Array Information Technology in Greenbelt received \$1.2 million for Enhanced Geothermal Systems Technology R&D. The funds are being used to develop a technical system to monitor seismic activity and its causes near EGS sites. The resulting data will aid in the understanding and prediction of induced seismicity.

**Award(s): \$150,000, Photovoltaic (PV) Systems Development**

**Location: Baltimore, MD**

Accustrata, Inc., in Baltimore received \$150,000 for Photovoltaic Systems Development. The funds are being used to develop a real-time optical monitoring system. This system is based on fiber optic reflectance measurements optimized for use in a thin-film production environment. This project will improve manufacturing processes and reduce costs.

**Award(s): \$279,000, Wind Energy Technology R&D and Testing**

**Location: Bethesda, MD**

Areva Federal Services, LLC, in Bethesda received \$279,000 for Wind Energy Technology R&D and Testing. Funds are being used to survey the strategies and decision support tools for managing wind generation, including integration of wind forecasting.

**MODERNIZING THE ELECTRIC GRID – 18 projects totaling \$430.9 million**

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*Harnessing clean energy sources and integrating them onto a modernized electric grid, while giving consumers better choices and more control over their energy use. For more information, visit <http://www.energy.gov/recovery/smartgrid.htm>.*

**Award(s): 7 totaling \$6.8 million, Enhancing State and Local Governments' Energy Assurance**

**Location: Greater DC Area, Maryland and Parts of Virginia**

The District of Columbia Development Authority received \$6.8 million to focus on building regional energy assurance capabilities by enhancing inter- and intra-state / district coordination and cooperation during energy emergencies. This project funds states to update and develop State Energy Assurance Plans that incorporate new energy portfolios such as wind, renewables, biofuels, etc. This program also funds cities updating and developing Energy Assurance Plans within local areas. The two sets of funding are being used to hire or retrain staff in, building in-house expertise in the areas of Smart Grids, critical energy infrastructure interdependencies and cyber-security.

- **National Association of State Energy Officials, Alexandria, VA - \$2.3 million**
- **Energy Enterprise Solutions, LLC, Washington, DC - \$1.6 million**
- **Public Technology, Inc., Washington, DC - \$1.1 million**
- **Maryland Energy Administration, Annapolis, MD - \$717,000**
- **KPMG, LLP, Washington, DC - \$630,000**
- **District of Columbia Government, Washington, DC - \$254,000**
- **City Of Baltimore, Baltimore, MD - \$200,000**

**Award(s): \$10 million, Interoperability Standards and Framework (EISA 1305)**

**Location: Gaithersburg, MD**

The National Institute of Standards & Technology in Gaithersburg received \$10 million for Interoperability Standards and Framework (EISA 1305). The funds support the development and implementation of EISA to ensure the effective and consistent application of Smart Grid technology throughout development and implementation.

**Award(s): 5 totaling \$370.1 million, Smart Grid Investment Grant Program (EISA 1306)**

**Location: Greater DC Area, Maryland and Parts of Virginia**

- **Baltimore Gas and Electric Company, Baltimore, MD - \$200 million**  
Baltimore Gas and Electric in Baltimore received \$200 million for the implementation of Smart Grid Investment Grant to deploy advanced metering, dynamic pricing and other grid improvements.
- **Potomac Electric Power Company, Washington, DC - \$104.8 million**  
Potomac Electric Power Company in Washington received a Smart Grid Investment Grant of \$104.8 million to support the installation of 570,000 smart meters in the Maryland service area, along with grid automation and communications technologies.
- **Potomac Electric Power Company, Washington, DC - \$44.6 million**  
Potomac Electric Power Company in Washington received a \$44.6 million Smart Grid Investment Grant to install 280,000 smart and Smart Grid infrastructures primarily in the District of Columbia, which will reduce peak electricity demand and improve grid efficiency.
- **Rappahannock Electric Cooperative, Fredericksburg, VA - \$15.7 million**  
Rappahannock Electric Cooperative in Fredericksburg received \$15.7 million to implement digital improvements and upgrades to ensure adequate and affordable power for the future through Smart Grid technology.
- **Northern Virginia Electric Cooperative, Manassas, VA - \$5 million**  
Northern Virginia Electric Cooperative in Manassas received \$5 million for the Smart Grid Investment Grant Program. This project is upgrading 29 high-priority substations, replacing nineteen distribution sectionalizers with modern electronic reclosers, deploying fourteen motor-operated air break switches, installing 135 600Kvar capacitor banks and ensuring the SCADA system is impenetrable to security threats.

**Award(s): \$33.9 million, Smart Grid Regional and Energy Storage Demonstration Project (EISA 1304)**

**Location: Greater DC Area and Parts of Virginia**

The National Rural Electric Cooperative Association in Arlington received \$33.9 million for a Smart Grid Regional and Energy Storage Demonstration Project to install and operate a suite of diverse Smart Grid technologies and aggregate the data from seventeen rural electric cooperatives across eleven states, including Virginia.

**Award(s): \$4.4 million, Smart Grid Workforce Training**

**Location: Washington, DC**

Pepco Holdings, Inc., in Washington received \$4.4 million for Smart Grid Workforce Training. The PHI Smart Grid Workforce Training project ensures a well-trained and highly skilled workforce. Training covered by the program will ensure employees have the expertise and capabilities to implement, operate and enhance the Smart Grid, as well as provide sound energy advice to consumers. Seven hundred new and existing employees will receive training in order to fill new roles and enhance existing ones.

**Award(s): 3 totaling \$5.7 million, State Assistance on Electricity Policies**

**Location: Greater DC Area and Maryland**

This project funds states and their Public Utility Commissions (PUCs) to hire staff trained to facilitate the review of time-sensitive requests approving electric utility expenditures undertaken as part of the Recovery Act.

- **National Association of Regulatory Utility Commissioners, Washington, DC - \$4 million**
- **Maryland Public Service Commission, Baltimore, MD - \$894,000**
- **District of Columbia Government, Washington, DC - \$765,000**

## **TRANSPORTATION – 4 projects totaling \$118.4 million**

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*Investing in a new generation of advanced fuels and vehicles to reduce our dependence on foreign oil and revitalize domestic manufacturing. For more information, visit <http://www.energy.gov/recovery/vehicles.htm>.*

**Award(s): 2 totaling \$105.2 million, Advanced Battery Manufacturing**

**Location: White Marsh, MD and Mclean, VA**

- **General Motors, LLC, White Marsh, MD - \$105 million**  
General Motors, LLC, in White Marsh received \$105 million to establish a Center of Electric Drive Manufacturing in the Baltimore area.
- **Mangi Environmental Group, Inc., McLean, VA - \$233,000**  
Mangi Environmental Group, Inc., in McLean received \$233,000 for Advanced Battery Manufacturing. The funds are being used to perform National Environmental Policy Act (NEPA) support services for recipients of battery manufacturing funds.

**Award(s): \$5.9 million, Clean Cities Alternative Fuels and Vehicles (AFV) Grant Program**

**Location: Annapolis, MD**

The Maryland Energy Administration in Annapolis received \$5.9 million for the Clean Cities Alternative Fuels and Vehicles (AFV) Grant Program. The funds are being used to deploy 150 heavy-duty hybrid vehicles.

**Award(s): \$7.3 million, Enabling Fuel Cell Market Transformation**

**Location: Reston, VA**

Sprint Communications Company, LP, in Reston received \$7.3 million to demonstrate the financial and operational feasibility of using Proton Exchange Membrane (PEM) Hydrogen Fuel Cells (HFC) to provide backup power for critical cell sites.

## **ENVIRONMENTAL CLEANUP – 1 project totaling \$400,000**

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*Creating jobs and reducing the legacy cold war footprint of the Department of Energy and clean up the polluted land and water resources in communities. For more information, visit <http://www.energy.gov/recovery/cleanup.htm>.*

**Award(s): \$400,000, Title X Uranium / Thorium Reimbursement Program**

**Location: Fort Belvoir, VA**

The Defense Contract Audit Agency in Fort Belvoir received \$400,000 for the Title X Uranium / Thorium Reimbursement Program. The goal of this project is to eliminate the government's liability for environmental cleanup at sites that produced uranium (U) and thorium (Th) during the Cold War era for DOE and its predecessors. This funding enables the licensees of these sites to accelerate the completion of cleanup programs and limit the environmental risks at these sites.

## **SCIENCE AND INNOVATION – 44 projects totaling \$3.8 million**

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*Renewing our commitment to science and innovation to ensure global competitiveness in the future. For more information, visit <http://www.energy.gov/recovery/innovation.htm>.*

**Award(s): \$1.5 million, Advanced Networking Initiative**

**Location: Rockville, MD**

Acadia Optronics, LLC, in Rockville received \$1.5 million for the Advanced Networking Initiative. Funds are being used to accelerate, by several years, the commercialization of 100 Gigabit per second (Gbps) networking technologies. This acceleration is accomplished by deploying a demonstration national network prototype and conducting research and development on an advanced network testbed facility. An advanced network, with 100 Gbps throughput capability, will revolutionize the way scientists communicate in their day-to-day work and could have transformational impacts on commercial network providers.

**Award(s): 2 projects totaling \$1 million, Computational Partnerships (SciDAC-e)**

**Location: Baltimore, MD and Fairfax, VA**

George Mason University in Fairfax, VA and Johns Hopkins University in Baltimore, MD received \$1 million for Computational Partnerships (SciDAC-e). This project provides funds for a one-time stimulus of research efforts in applied mathematics and computer science to establish the computational foundation and insight needed to advance the department's mission across a wide range of areas, including developing novel, renewable and / or ecologically friendly energy sources and developing Smart Grids.

- **George Mason University, Fairfax, VA - \$748,000**  
George Mason University in Fairfax received \$748,000 for fundamental mathematical research.
- **Johns Hopkins University, Baltimore, MD - \$259,000**  
Johns Hopkins University in Baltimore received \$259,000 to to develop new methods for the analysis and reduction of complex multiscale networks under uncertainty.

**Award(s): \$750,000, Energy Sciences Fellowships and Early Career Research Program**

**Location: College Park, MD**

The University of Maryland in College Park received \$750,000 for the Energy Sciences Fellowships and Early Career Research Program. Funds are supporting graduate, post-doctoral and early career fellowship awards to stimulate research careers in energy, environmental and climate change sciences.

**Award(s): 3 totaling \$107,000, OSTI Technology Infrastructure**

**Location: Statewide (Virginia)**

This project is for a one-time facility operations upgrade to strengthen the technology backbone through which DOE enables public and scientific community access to the results of its R&D investment. These upgrades include a redundant internet pathway and a live alternate processing site capable of handling the expected traffic and hosting of the Office of Scientific and Technical Information (OSTI) scientific dissemination services.

- **PC MALL GOV, Inc., Virginia - \$65,000**
- **DLT Solutions, LLC, Virginia - \$23,000**
- **Sun Management, Inc., Virginia - \$19,000**

**Award(s): 3 totaling \$426,000, Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR) Round 1**

**Location: Clarksville, MD and College Park, MD**

- **Accustrata, Inc., College Park, MD - \$150,000**  
AccuStrata, Inc., in College Park received \$150,000 for Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR). The funds are being used to develop a real-time optical control system to improve the thin-film solar panel manufacturing process. These developments will increase conversion efficiency which reduces the time and product cost of solar.
- **E3tec Service, LLC, Clarksville, MD - \$140,000**  
E3tec Service, LLC, in Clarksville received \$140,000 for Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR). This project addresses thermal separation processes that are capital and labor intensive. If successful this project will create a paradigm shift for achieving DOE's energy efficiency goals.
- **E3tec Service, LLC, Clarksville, MD - \$137,000**  
E3tec Service, LLC, in Clarksville received \$137,000 for Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR). Funds support Ocean Thermal Energy Conversion (OTEC).