



STATE ENERGY PROGRAM ARRA UPDATE

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National Association of State Energy Officials

www.NASEO.org

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ALABAMA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$55,570,000	\$26,011,079	46.81%

State ARRA Funded SEP Activities

Alabama has awarded grants in the following categories:

- *Training Seminars on Building Energy Codes – \$197,921*
- *Home Energy Rating System (HERS) Training Seminars – \$50,000*
- *Energy Audit Training Seminars – \$50,000*
- *High Performance Building Training Seminars – \$196,121*
- *Automotive Industrial Energy Efficiency – \$600,000*
- *Energy Efficient Retrofits of Schools – \$3,952,037*
- *Energy Efficient Retrofits of Correctional Facilities – \$20,965,000*

The ADECA Energy Division currently has open Requests for Proposals (RFPs) to award an additional \$1,047,963 in Energy Efficient School Retrofit grants and a \$25,000,000 Energy Revolving Loan Fund for business and industry which will bring the total award of funds to \$52,059,042 or 93.7% of the state's award.

State Success Story

The ADECA Energy Division awarded \$600,000 to the University of Alabama in Huntsville (UAH) to assist the state's automotive industry cut energy costs and manufacturing waste. Gov. Bob Riley predicts UAH could help as many as forty (40) auto suppliers increase energy efficiency and reduce waste in their manufacturing processes and experts estimate 2,000 jobs could be retained.

The Alabama Automotive Manufacturers Association will assist UAH in identifying participants for the program., Experts from UAH and the Alabama Technology Network will visit company sites for a week to identify areas for improvement, develop solutions and implement as many as possible. UAH will help those companies plan improvement implementations and will follow up with site visits.

ALASKA

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State ARRA Funded SEP Activities

The Alaska Housing Finance Corporation will focus on reducing energy costs, supporting on-going energy-efficiency programs in public buildings with an emphasis on schools, and meeting the assurances required by the ARRA for use of the funds. AHFC will fund projects in the following categories:

State facilities energy efficiency projects – This program will continue and expand DOT/PF’s successful energy performance contracting project to further reduce energy costs in State facilities. The list of buildings and specific projects to be included will be determined based on energy audits. The funds allocated for this program will be leveraged with debt financing to accomplish the maximum number of energy efficiency projects and corresponding energy cost savings to the State. Up to \$40,000,000 in energy efficiency projects can be funded, using a combination of the \$100,000,000 in ARRA funds and \$90,000,000 in debt financing. The debt service will be paid entirely through the cost savings from the energy efficiency projects, and the savings will be guaranteed by the contractor, so there is no financial risk to the State. In the short term, financing will be through either the State’s master lease line of credit under the Department of Revenue, or through a private bank or financing firm. AHFC bonds would be an additional option and may offer a lower interest rate, but would require an appropriation next legislative session. [*\$10,000,000*]

Schools and municipal facilities energy efficiency projects – Under this program, every school district and municipality in the State will be offered the ability to use the State’s energy performance master contract to reduce their energy costs. The funds will be leveraged with borrowed funds – either private financing or AHFC bonds – to increase the number of projects that can be funded. The \$8,000,000 in ARRA funds could pay for \$142,000,000 in energy projects for schools and municipal facilities. The emphasis in expending the \$8,000,000 will be on schools. Additional projects beyond this \$150,000,000 total can be funded using energy performance contracting, but will need to be 100 percent debt financed. One caveat is that the smallest school districts and village municipalities may not have large enough facilities to make energy performance contracting cost effective. As an alternative, AHFC can use a portion of this allocation for the residential weatherization crews that are already planning work in many rural communities to perform energy efficiency improvements to village schools and community buildings. [*\$8,000,000*]

AHFC low income housing facilities energy efficiency projects – A number of AHFC housing facilities were constructed in the 1970s and 1980s, and are not energy efficient. Adding insulation, sealing air leaks, and upgrading heating systems will substantially reduce operating costs. [*\$2,500,000*]

Village facilities energy efficiency program – This program will expand AEA’s successful work in rural villages to improve energy efficiency in both public facilities and small businesses. AEA will coordinate with AHFC to avoid duplication of efforts with AHFC’s weatherization crews. This program will enable AEA to provide energy efficiency services to villages where AHFC is not doing weatherization work. [*\$3,732,000*]

Energy efficiency resources and tools for communities and businesses – Under this program, AHFC will provide the following resources and tools for communities and businesses across Alaska. [*\$4,000,000*]

Estimated allocations are included:

- *Energy efficiency training and outreach, including provision of training for contractors to perform the residential energy efficiency projects funded through the residential energy rebate program – \$1,750,000;*
- *Commercial and small business energy audit training and support – \$1,250,000;*
- *Enhancement of the AKWarm energy modeling software, which is the basis of the residential energy rebate program. The software will be enhanced to include commercial buildings and to better model energy use and determine cost-effective improvements – \$850,000.*
- *Building energy code analysis and support for municipalities. As Alaska’s designated energy agency for the federal State Energy Program, AHFC needs to comply with the ARRA requirements, including assistance to municipalities on energy codes – \$150,000.*

AMERICAN SAMOA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$18,550,000	\$5,531,657	29.82%

State ARRA Funded SEP Activities

Electric Power and Renewable Energy – The following describes the 4 projects proposed for SEP-ARRA funding by American Samoa TEO. TEO will work with the American Samoa Power Authority who will manage any competitive solicitation and contract awards for acquisition, installation and design of systems.

- *Utility Intertie 1 MW PV Array*
- *Distributed PV Arrays* – The plan is to acquire and install nineteen, 28 kW, PV Arrays distributed in the roofs of Government and other Buildings using net-metering. The total size of the distributed systems would be 504 kWac.
- *Diesel-Organic Cogeneration Power Cycle* – Tutuila has two diesel-fueled generating plants, both of which feed electricity into the island grid. No other forms of generation exist on the island.
- *LBJ Tropical Medical Center: Solar Water Heater* – Acquire and install a solar water heating system using the engineering design available for 3,000 galls-per-day at 140 degrees F.

Policy, Planning and Energy Security: Anemometry Project – Tula and Aunu'uASPA has set a goal on renewable energy sources amounting to 10% of generation demand by 2010. To meet this goal ASPA will need to install rated capacities from renewable energy systems equivalent to two to three megawatts. Quantify wind power generation potential in specific locations leading to installation of wind turbines as a means to contribute to American Samoa's goal of 10% renewable energy resources meeting generation demand by 2010.

Supplementing Weatherization – To utilize SEP ARRA funds to supplement existing Weatherization program funds. There is a great need to replace air-conditioning systems and solar hot water heaters in households occupied by elderly and low-income individuals. The \$203,619 in SEP ARRA funding will be used to supplement first year Weatherization Assistance funding in order to offer weatherization services to approximately 32 additional eligible households. TEO will work with social services agencies on American Samoa to identify eligible households.

AMERICAN SAMOA

State Success Stories

The Territorial Energy Office has awarded to Island Energy a project to supply and install roof-mounted photovoltaics on government, non-profit and private sectors facilities. The PV arrays will be mounted on existing roofs with several mounted on new parking structures. The award will cover 25 individual installations composed of 15 government and non-profit and 10 private sector buildings. A cost share of more than \$400,000 has been provided by the private sector. The total installed solar electricity provided by this project is 616 kWac. The total project will take approximately one year with several systems going online monthly.

Each system is designed for at least 28 kWac which will be net-metered by the American Samoa Power Authority. Also provided is a monitoring system to document the kWh contribution to the electric grid. As with all stimulus funding, this project will provide jobs for electrical and mechanical engineers and systems installation crews.

The total project award is \$5,278,798 with a cost per kWac of \$8,569. The projected life of the array is 25 years and the inverters are estimated at 10 plus years.

ARIZONA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$55,447,000	\$46,197,000	83.32%

State ARRA Funded SEP Activities

Energy Efficiency & Renewable Energy in Schools – The Energy Office has committed \$19,268,000 to implement energy-saving and renewable energy projects. Of this amount more than \$17 million has already been awarded to 25 school districts and 22 individual schools.

State Building Energy Performance Contracting – The Energy Office has committed \$9,525,000 to implement energy-saving and renewable energy projects for 51 state buildings. Work is underway.

Distributed Energy Leadership – Partnership with nine (9) Arizona utilities to provide incentives to customers to install solar electricity and hot water systems. Of \$10 million allocated \$370,111 has been contracted with three of nine Arizona utilities.

21st Century Energy Grant Program

- **Agricultural Renewable Energy Conversion Incentive** – Thirty-seven (37) applications were received and are being reviewed. Anticipated amount of awards will exceed \$540,000 in this first of two grant rounds. The grants will allow farmers and ranchers to convert operations to cost-effective renewable applications.
- **Renewable Energy for Non-profits** – Seventy-seven (77) applications were received requesting more than \$4 million for the available \$650,000 in grants. The grants will allow Arizona non-profits to install renewable energy technologies to their operations in an effort to reduce costs and preserve services and jobs.

State Success Stories – *Arizona Schools Get ARRA Energy Makeover*

Energy costs at Arizona schools will be significantly reduced next year as American Recovery and Reinvestment Act (ARRA) funds are put to work to make 167 schools more energy efficient. The Arizona Department of Commerce Energy Office and the state's School Facilities Board selected 25 school districts totaling 167 schools for energy improvement projects that will be completed before the start of the next school year. The districts were selected from 105 applications for ARRA funds.

The grant funding will provide 30 percent of the project cost up to \$1 million per school district. The district will be responsible for at least 70 percent of the project cost either through energy performance contracting or other available local funds.

ARIZONA

The state is directing more than \$12 million of ARRA funds to energy efficiency projects for the qualifying school districts. The ARRA funds combined with local funds will result in an estimated \$43,600,825 of energy projects that have a guaranteed savings of \$5,567,738 per year. The average payback for these projects is approximately eight years.

Efficiency Awards	City/Town	County	Project	Award
Altar Valley Elementary	Tucson	Pima	Lighting upgrade/control, HVAC control	\$36,297
Balsz Elementary	Phoenix	Maricopa	Lighting upgrade, HVAC upgrade/control	\$313,233
Chandler Unified	Chandler	Maricopa	HVAC control	\$66,174
Chinle Unified	Chinle	Apache	Lighting upgrade/control, HVAC control	\$1,000,000
Chino Valley Unified	Chino Valley	Yavapai	Lighting upgrade, HVAC upgrade	\$284,063
Crane Elementary	Yuma	Yuma	Lighting upgrade, HVAC upgrade/control	\$575,538
Dysart Unified	Surprise	Maricopa	Lighting upgrade/control, HVAC upgrade	\$1,000,000
Florence Unified	Florence	Pinal	Lighting upgrade/control, HVAC upgrade	\$1,000,000
Fountain Hills Unified	Fountain Hills	Maricopa	Lighting upgrade, HVAC upgrade	\$212,000
Ft. Thomas Elementary	Fort Thomas	Graham	Lighting upgrade	\$12,437
Ganado - Primary	Ganado	Apache	Lighting upgrade/control, HVAC upgrade	\$125,323
Ganado - High	Ganado	Apache	Lighting upgrade/control, HVAC upgrade	\$302,294
Ganado - Intermediate	Ganado	Apache	Lighting upgrade/control, HVAC upgrade	\$100,965
Gilbert Unified	Gilbert	Maricopa	Lighting upgrade/control, HVAC upgrade	\$221,317
Higley Unified	Gilbert	Maricopa	Lighting upgrade/control, HVAC upgrade	\$490,782
Isaac Elementary	Phoenix	Maricopa	Lighting upgrade, HVAC upgrade/control	\$1,000,000
Marana Unified	Marana	Pima	Lighting upgrade/control, HVAC upgrade	\$695,537
Mesa Unified	Mesa	Maricopa	HVAC control	\$260,824
Pinon Unified	Pinon	Navajo	Lighting upgrade/control, HVAC control	\$517,085
Queen Creek Unified	Queen Creek	Maricopa	Lighting upgrade, HVAC upgrade/control	\$848,964
Roosevelt Elementary	Phoenix	Maricopa	Lighting upgrade/control, HVAC upgrade	\$653,797
Sahuarita - Intermediate	Sahuarita	Pima	Lighting upgrade, HVAC control	\$12,622
Sahuarita - Middle	Sahuarita	Pima	Lighting upgrade, HVAC control	\$33,361
Sahuarita - High School	Sahuarita	Pima	Lighting upgrade, HVAC control	\$71,954
Sierra Vista Unified	Sierra Vista	Cochise	Lighting upgrade, HVAC upgrade/control	\$402,754
Tanque Verde Unified	Tucson	Pima	Lighting upgrade, HVAC upgrade/control	\$325,105
Toltec Elementary	Eloy	Pinal	Lighting upgrade/control, HVAC upgrade	\$84,773
Tucson Unified	Tucson	Pima	HVAC upgrade/control, plate/frame exchange	\$878,200
Winslow Unified	Winslow	Navajo	Lighting upgrade/control, HVAC control	\$590,518
Total				\$12,115,917

NOTE: All awards have a 30 percent buy-down, with the exception of four projects which exceed \$1 million

ARKANSAS

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$39,416,000	\$30,400,000	77.13%

State ARRA Funded SEP Activities

- *Advanced Lighting Technologies for Poultry Houses – University of Arkansas – \$106,677*
- *Advanced Lighting Technology for Poultry Houses – Northwest Arkansas Community College – \$1,439,807*
- *Arkansas Industrial Energy Technology Loan Technology Review – University of Arkansas System – \$65,531*
- *Building Training Centers of Excellence – Northwest Arkansas Community College – \$1,356,088*
- *Building Training Centers of Excellence – Pulaski Technical College – \$1,231,202*
- *Employer Assisted Home Energy Assistance Loan Program – \$639,711*
- *Promotion of Arkansas Industrial Energy Clearinghouse – \$217,740*
- *State LEED Building – Arkansas Building Authority – \$1,153,000*
- *Sustainable Building Design Revolving Loan Fund – Arkansas Building Authority – \$12,000,000*

Employer Assisted Home Energy Assistance Loan (HEAL) – Pilot program to increase energy efficient operating systems of industries and provide audit and retrofit opportunities for employees of the industry. [Reported 20% complete]

Advanced Lighting Technology for Poultry Growers – To reduce energy consumption, and thus energy costs, for poultry growers by replacing incandescent bulbs in chicken housing with dimmable, high intensity LED bulbs. [Reported 2% complete]

Arkansas Industrial Energy Technology Loan Fund (IETL) – The IETL Program finances energy efficiency retrofits and green energy implementation for industries.

Building Training Centers of Excellence – Develop curriculum, facilities and equipment to train residential energy auditors, raters and weatherization employees.

Sustainable Building Design Revolving Loan Fund – Create revolving loan fund to make energy efficient improvements in state buildings. [Reported 2% complete]

K-12 Green Building Revolving Loan Program – Create sustainable, zero interest revolving loan fund for school districts to employ and deploy new energy efficient technologies, as well as design and construct high performance buildings with sustainable energy savings.

State Building Energy Management Program – Establish an energy management program for state-owned buildings and buildings owned by institutions of higher education that will determine baseline energy consumption in state agencies and establish criteria and goals for energy efficiency.

ARKANSAS

State LEED Building – Invest in energy efficient systems of renovated office building to house AEDC, ASTA, ADFa and the Arkansas State Library, with goal of attaining the first LEED-Silver designation by state owned building. Installation of solar electric, improved building efficiency, high performance HVAC, rain collection water systems, plug-in electric hybrid stations, superior lighting systems and light harvesting system. *[Reported 5% complete]*

Emergency Renewable Energy Power – Provide Arkansas Department of Emergency Management with 15 photovoltaic energy generators mounted on trailers that can provide power in emergency situations.

Renewable Technology Rebate Fund – Provide rebates for the purchase of small-scale electric generation and solar hot water systems for residential, commercial or public sector facilities.

Tall Towers Wind Measurement Study – Conduct study of wind speed data for Arkansas at commercial-scale elevations in order to encourage commercial wind development

State Success Story

Two state colleges will receive grants to provide job training for green jobs in energy efficiency to as many as 600 Arkansans through 60 course offerings. Pulaski Technical College and NorthWest Arkansas Community College (NWACC) will each establish a Building Training Center of Excellence to train energy auditors, energy raters, weatherization workers, and workers in the heating and cooling industries. Pulaski Technical College received \$1,231,201.99 and NWACC received \$1,356,088.34.

The grant funds were provided by the U.S. Department of Energy through the American Recovery and Reinvestment Act. Expected participants include licensed builders, licensed HVAC technicians, inspectors, instructors, code officials, building inspectors, utility personnel, consultants, weatherization workers, and associate degree candidates for some technical programs such as HVAC, and others. The Building Training Centers will work with national certification and accreditation programs on curriculum development, establishing in-house accredited trainers, and tailoring curriculum to fit Arkansas's needs and climate. The Building Training Centers of Excellence will reach other parts of the state through mobile training units created at each college. The two mobile training labs will be equipped with computers, software, diagnostic equipment and tool kits to offer training at partnering colleges throughout the state. Currently, energy-related training is dependent upon bringing certified experts into Arkansas.

CALIFORNIA

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CALIFORNIA REPUBLIC

Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$226,000,000	\$195,400,000	86.46%

State ARRA Funded SEP Activities

Energy Efficiency Program

Energy Efficiency Retrofits and Clean Energy Systems in the Residential, Non-residential and Industrial Sectors – To promote economic vitality and build a clean energy workforce, the Energy Commission is providing up to \$110,000,000 in State Energy Program (SEP) funds for energy programs focused on existing residential and commercial building energy efficiency (and water efficiency) retrofits. Onsite solar electric generation may be eligible if installed in conjunction with energy efficiency measures. Local jurisdictions, non-profits or private organizations can create partnerships and apply for program funding under a competitive solicitation process for three different areas.

- **California Comprehensive Residential Building Retrofit Program**
 This program will create jobs, train a sustainable energy-industry workforce and stimulate the economy by making energy improvements to existing residential buildings. Re-trained construction workers, contractors, and youth entering the job market will be deployed to improve the energy efficiency and comfort in California's existing housing. The program will work with regional groups of local governments, utilities, community colleges, national and state energy and affordable housing programs, and private and public energy and building contracting experts. It will leverage existing affordable housing and neighborhood stabilization programs to increase energy efficiency for under-served, economically disadvantaged people living in some of the areas hardest hit by the economic downturn.
- **Municipal and Commercial Building Targeted Measure Retrofit Program**
 This program aims to spread the benefits of readily available, low risk, high-return efficiency technology in municipal and commercial buildings throughout the state. By performing retrofits on a wide scale, the Energy Commission will show building owners, operators and occupants that energy efficiency can provide not only cost savings but other valuable non-energy benefits.

Municipal Financing Program

This program will help public agencies create financing programs for energy efficiency improvements that are permanently fixed to residential, commercial and industrial buildings. Under the program, building owners repay the financing through property tax assessments that remain with the property until repaid, even if the property is sold. This decreases or eliminates the upfront costs property owners normally must pay to install energy improvements. The Energy Commission will provide public agencies with funding for program start-up and ongoing costs, interim financing, interest rate buy-down, and property owner rebates.

CALIFORNIA

Clean Energy Business Financing

Focused on industry job creation and retention by providing low interest loans to private companies that will retool, improve, modify or expand energy manufacturing facilities.

Low-Interest Loans

It's important for California's local governments and public entities to get the most from any federal funding and combining an EECBG or SEP grant with a low interest loan is a smart choice. The California Energy Commission is infusing \$25 million in stimulus funds into a statewide program offering a first-time ever low interest rate of 1 percent for local jurisdictions to invest in energy efficiency, save money, reduce greenhouse gas emissions and build new jobs and industries for their communities. These loans can help local governments to jump start jobs in their community by getting more dollars especially when adding utility rebates. Loans are repaid from energy savings that can be loaned again for more energy projects. Cities, counties, special districts, public schools, colleges and universities, public care institutions, and public hospitals are eligible to apply for the SEP Energy Efficient 1 percent.

State-owned Buildings through Department of General Services

Using Energy Commission ARRA funds, the Department of General Services (DGS) opened California's first revolving loan program to help state agencies install energy efficiency retrofit projects on state-owned buildings and repays the loans from the energy savings.

Green Jobs Training Program

The Energy Commission is well positioned to collaborate with public, private and nonprofit partners, including state and local agencies, education, community and labor organizations and industry to develop a green workforce development program for California. The Energy Commission will expand on its current state workforce development plan for alternate fuels and advanced vehicle technology and will leverage existing partnerships with \$20 million in ARRA funding to create a more extensive green workforce focused on energy efficiency and clean energy sources, including wind and solar energy. The Energy Commission is collaborating with several state agencies, the State's community college system and local workforce investment boards to execute this plan.

Program & Support Contracts

Auditing, measurement, and evaluation contracts for ARRA program and projects.

State Success Story

Energy Efficiency Program – [\$110,000,000]

Funding opportunities have been released for three areas: Residential Building Retrofit, Municipal & Commercial Building Retrofit Program and Municipal Financing District Program: Notice of Proposed Awards released in February 2010. Contracts expected by end of first quarter.

Department of General Services – [\$25,000,000]

Energy Efficient State Property Revolving Loan Program: The total amount was awarded to DGS through an interagency agreement. DGS has signed \$3,700,000 in loans to retrofit five state buildings and will sign five more loans for more than \$12,000,000 by the end of the first quarter of 2010.

Energy Conservation Assistance Act (ECAA) 1% Low-Interest Loans Program – [\$25,000,000]

1% Low-Interest Loans: As of February 17, 2010, nearly \$20,000,000 has been approved. This program is currently over-subscribed and is not accepting applications at this time.

Green Jobs Workforce Training Program – [\$20,000,000]

Green Jobs Workforce Training Program: EDD and ETP have already awarded \$26,700,000 million in grants to 34 regional partnerships - 27 of these totaled \$14,500,000 million in ARRA funds.

Program Support & Contracts – [\$15,400,000]

Auditing, measurement, and evaluation contracts for ARRA program and projects. Awards expected in March 2010.

COLORADO

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$49,222,000	\$41,892,896	85.11%

State ARRA Funded SEP Activities

The state plan divides the funds into seven categories:

Finance and Capital Investments [\$19,248,127]

- *Revolving Loans Fund (16%)*
- *New Energy Economy Development Grants (18%)* – This grants program will infuse ARRA SEP funds immediately into projects that are at their final stages of development.
- *Renewable Energy Finance (10%)* – The program will work with the following financial mechanisms: CREBs/QECBs, a Solar Investment Tax Credit (ITC) Grant in Lieu of Tax Credit Loan Program and the K-12 Renewable Energy Loan Program through the Colorado State Treasury.
- *Debt Financing (52%)*
- *Colorado Center for Renewable Energy and Economic Development (4%)* – CREED is a cooperative program between Colorado and the National Renewable Energy Lab. The first of its kind in the nation, CREED will provide a crossroads facility for technology commercialization, where NREL scientists, engineers and researchers can meet, conference and discuss important technical, business market and policy issues with entrepreneurs, venture capital firms, angel investors, analysts and policymakers.

Residential Programs [\$5,688,328]

- *Residential Energy Efficiency Programs and Incentives (54%)*
- *Special Residential Programs (10%)*
- *Energy Codes Support and Training (23%)*
- *ENERGY STAR New Homes (13%)*

Renewable Energy Development and Expansion [\$9,775,334]

- *Solar PV (48%)*
- *Solar PV [100% AMI] (10%)*
- *Solar DHW (14%)*
- *Solar DHW [100% AMI] (5%)*
- *Micro Wind Systems (7%)*
- *Small Wind Systems (6%)*
- *Wind for Schools Grants (2%)*
- *Ground Source Heat Pump Pilot (6%)*
- *Renewable Energy Development Team*

COLORADO

- *Rebates and Grants* – The total amount to be distributed through the Renewable Energy Rebates and Grants Program is approximately \$7,800,000 with an additional 10% set aside for program administration and monitoring and verification requirements. The GEO anticipates making approximately 700 project awards through this program.

Commercial Buildings [\$4,938, 258]

- *Energy Performance Contracting* (31%)
- *Energy Efficiency in Commercial Buildings* (19%)
- *K-12 Efficiency Programs* (23%)
- *High Performance Building Program* (27%)

Public Information and Consumer Outreach [\$4,762,490]

Greening Government [\$723,348] – Program offerings include facilitating Energy Performance Contracts projects and aiding in the installation of cost effective energy efficient and water-reduction technology, providing strategies and removing barriers to improve the efficiency of the state fleet, developing materials management programs.

Utilities and Transmission [\$1,281,863] – The primary activities which the Utilities Program will be conducting its work will be within the following categories: public education; plans for long term resource planning; introducing energy savings technologies to market; modifying patterns of energy consumption; feasibility studies; linking state energy and environment objectives; and partnering with utilities on supply side management.

State Success Story – *Coloradans Can Save Money, Build Jobs with Upcoming ARRA Energy Grants*
The Governor's Energy Office (GEO) is preparing to roll out numerous new opportunities for residents, businesses, local governments, non-profits and other organizations to save money and energy, spark job creation and increase energy independence thanks to American Recovery and Reinvestment Act dollars.

Beginning this month, the energy office is posting a wide variety of grant opportunities designed to increase the energy efficiency of homes, schools and other buildings as well as increase the supply of energy from renewable resources and clean-burning natural gas. Grants will be provided in more than two dozen categories, including for wind power at schools, for geothermal energy development, for converting private and public fueling stations to include compressed natural gas and to install renewable energy or energy-saving equipment on historic properties.

CONNECTICUT

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$38,542,000	\$38,542,000	100%

State ARRA Funded SEP Activities

Connecticut has awarded grants in the following categories:

- *Northwest Energy Efficiency Council*
- *Connecticut Innovations, Inc*
- *Connecticut Light & Power Co.*
- *United Illuminating*
- *Connecticut Municipal Electric Energy*
- *Greater New Haven Clean Cities*
- *Capitol Clean Cities of Connecticut*
- *Norwich Public Utilities*
- *Clean Cities Alternatives of Southwestern Connecticut*
- *Connecticut Department of Public Works*
- *Connecticut Department of Public Safety*

Clean Energy/Renewable Programs

SEP Stimulus Funds support the creation of two new programs in addition to providing additional funding for two existing programs operated by the Connecticut Clean Energy Fund (CEF):

Geothermal Pump Incentive Program – provides incentive funding to support the installation of closed-loop ground source heat pump systems in commercial and residential applications.

Solar Thermal Incentive Program – provides incentive funding for the installation of solar thermal systems to heat domestic hot water in commercial and residential applications.

Solar Photovoltaic Program – provides incentive funding for the installation of solar photovoltaic systems in commercial and residential applications.

Fuel Cell Program – provides incentive funding through the On-Site Distributed Generation Program for fuel cell installations at commercial facilities.

CONNECTICUT

Residential Energy Efficiency Program

The Home Energy Solutions (HES) Program has been operated by the electric utilities through the Connecticut Energy Efficiency Fund. The program involves home depressurization using a blower door to help identify air leaks. The HES team then tightens the home using caulk, weatherstripping, and expandable foam. The team also installs low-flow aerators, low-flow showerheads, compact fluorescent light bulbs, where appropriate. Finally, the homeowner may be provided rebate certificates for certain appliances depending upon how old the appliance(s) is/are, and/or insulation (if additional insulation is recommended).

Non-Residential Energy Efficiency Programs

Energy Opportunities – program to help larger commercial and industrial facilities maximize electric, natural gas, fuel oil, and propane savings including retrofits to lighting, motors and controls and HVAC equipment. The objective of this program is to improve the energy efficiency of a customer’s existing facility by capturing retrofit opportunities. These opportunities are realized by: 1) exchanging functioning yet inefficient equipment with high-efficiency equipment; 2) retrofitting existing equipment with energy-saving devices, modifications, or controls; and 3) improving a facility’s performance.

Small Business Energy Program – program to help small businesses, municipalities, and state facilities maximize electric, natural gas, fuel oil, and propane savings. Qualified customers are defined as commercial, industrial, and municipal customers with an average 12 month peak demand between 10 kilowatts and 200 kilowatts. The program provides incentives for qualified customers to implement efficiency upgrades in areas such as (but not limited to) lighting, water heating, refrigeration and HVAC. When possible, third party financing will be arranged.

Government Programs

State Building Energy Improvements – this program provides funding to identify energy efficiency opportunities and retrofit state facilities to make them more energy efficient. The Department of Public Works is taking the lead role in implementation.

Building Code Training and Compliance – this program is designed to provide training to building code officials and building professionals in order to enhance compliance with the energy section of the State Building Code. The Department of Public Safety is the lead in project implementation.

Building Operator Certification Training – this training targets government facilities personnel to expand knowledge of energy efficiency implementation strategies for building managers. Both state and municipal personnel are eligible for the training.

Transportation Activities

Clean Cities Administrative Support – ARRA funding directly supports the operation of the four clean cities coalitions in the State of Connecticut: Capitol Clean Cities of Connecticut, Norwich Clean Cities, Greater New Haven Clean Cities, and Clean Cities Alternatives of Southwestern Connecticut. The four coalitions work together to provide information, outreach and technical information about alternative fuels and vehicles to the people of Connecticut. In addition, they facilitate the installation of alternative fuels infrastructure and the purchase of alternatively fueled vehicles.

FLORIDA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$126,089,000	\$68,969,470	54.70%

State ARRA Funded SEP Activities

Solar for Schools & Shelters – Contract Executed February 10, 2010

This program will support the installation of photovoltaic systems with battery back-up on strategically located schools and emergency shelters throughout the state. The FECC will coordinate with the Florida Solar Energy Center to select 90 co-located schools and emergency shelters in Florida and install 10 kW and larger solar systems with data loggers on each site. [*\$10,000,000*]

Solar Energy (Water Heating) Loan – Request for Proposal (RFP) Pending

This program will create a low-interest solar loan program to assist Florida residents with initial capital costs, while requiring a manageable low-cost monthly payment. The solar water heating loan program's revolving design will allow this program to perpetuate and be self-sustaining. [*\$10,000,000*]

Solar Energy Rebate Program – FUNDS FULLY COMMITTED

Florida's existing solar rebate program has successfully catalyzed investment in clean solar energy technologies. These investments have bolstered Florida's clean energy economy and created green-collar jobs. The program provides a \$4/per Watt rebate on photovoltaic systems, with a maximum rebate amount of \$20,000 for residential systems and \$100,000 for commercial systems. In addition, the program provides a \$500 rebate for residential solar water heaters, a rebate of \$15 per 1,000 Btu up to a maximum of \$5,000 for commercial solar water heaters and a \$100 rebate for solar pool heaters. Due to the tremendous demand and limited availability of state funding, a significant backlog in solar rebate applications occurred. Through the advent of SEP funds the state was able to provide \$14,400,000 in funding to address the backlog in rebate applications. [*\$14,400,000*]

E-85/B20 Public Fueling – Conversion Revolving Loan – RFP Pending

This program will increase the availability of E85 and B20 biofuels to consumers at retail stations throughout Florida by providing low-interest loans to fuel station owners to install E85 or B20 tanks and pumps at their facilities. There are over 500,000 flex fuel vehicles traveling on Florida roadways with very limited access to E85 fuel. With this program, Floridians will have access to biofuels at as many as 160 additional locations. Assists owners with the cost of installation of these alternative fuel tanks and pumps by providing low-interest loans. [*\$15,000,000*]

Florida Residential Retrofit Program – RFP in Development

The Florida Residential Retrofit program, upon independent verification of the completed improvements, will offer a rebate to Florida homeowners that have an energy audit and make sufficient energy efficient improvements to capture at least a 20 percent improvement in their home energy efficiency. [*\$5,000,000*]

FLORIDA

Shovel Ready Energy Project Grants Grant Agreements Pending – DOE Review Continuing

This program leverages Florida's state energy grant initiatives to identify "shovel-ready" projects that can be expeditiously implemented through available SEP funding. The goal is to provide grants for competitively-selected renewable energy and energy efficiency technology projects. The grant program is designed to stimulate capital investment in the state and promote and enhance the statewide utilization of renewable energy technologies. The top ten ranked (but unfunded) projects from FY 2008-09 grant applications from the Renewable Energy and Energy-Efficient Technology category as well as the Renewable Energy and Energy-Efficient Technology for Bioenergy category have been selected to receive funding. [*\$19,517,700*]

Florida Clean Energy Grants – Grant Solicitation Pending

The Clean Energy Grant program will provide funding to promote energy efficiency measures and renewable energy deployment for eligible public, not-for-profit, and agricultural entities. The maximum amount for an individual award is \$500,000 with a minimum amount of \$100,000. [*\$10,000,000*]

Florida Energy Opportunity Fund – Grant Agreement in Development

Florida will increase the availability of seed capital and early stage venture capital for emerging clean technology companies in Florida by creating the Florida Clean Energy Opportunity Fund. The FCOP is designed to help growing businesses that have commercialized technology to begin or expand operations in Florida. [*\$36,089,000*]

Compressed Natural Gas (CNG) Fleet Fueling Facilities Matching Grants – Grant Solicitation Closed

This program is intended to foster the development and operation of compressed natural gas (CNG) fleet fueling stations throughout Florida by providing matching grants to commercial companies, school districts, local governments, utilities, etc. up to \$500,000. The program will provide 25 percent matching funds for projects installed by for-profit entities. Not-for-profit and public entities will be eligible for matching funds of up to 50 percent of installation costs. [*\$4,000,000*]

State Success Story – Governor Announces \$10M for Solar Energy in Schools and Emergency Shelters

On February 15th Governor Charlie Crist announced the award of \$10,000,000 in American Recovery and Reinvestment Act of 2009 (ARRA) grants to the Florida Solar Energy Center in Cocoa Beach. The grant, known as the SunSmart School and E-Shelters (Emergency Shelters) program is a portion of the \$126,000,000 state received in State Energy Program funding for energy-related initiatives under the ARRA. The SunSmart School and E-Shelters program advances the use of renewable energy through the installation of solar energy systems, also known as photovoltaic (PV) systems. The program also supports solar-energy education initiatives for students and renewable energy curriculum training for teachers. In addition to helping reduce greenhouse gas emissions, the SunSmart School and E-Shelters program will also provide power during outages through the program's PV systems at the schools and shelters where the program is administered.

At least 90 schools selected to serve as emergency shelters will be supported by the SunSmart School and E-Shelters program. These strategically located schools will be assisted with their installation of PV systems with battery back-up. Data loggers will also be on each site that, when complete, will upload system information to www.energywhiz.com. In addition, the program will include operation and maintenance workshops for facility managers and energy curriculum workshops for teachers.

GEORGIA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$82,495,000	\$82,495,000	100%

State ARRA Funded SEP Activities

Georgia has awarded grants in the following categories:

- *State Facilities Retrofit Program – \$65,000,000*
- *Clean Energy Property Rebate Program (GA HB 473) – \$4,495,000*
- *Renewable Energy Grants – \$4,000,000*
- *Commercial Energy Efficiency Grants – \$2,000,000*
- *Industrial Energy Efficiency Grants – \$2,000,000*
- *Residential Energy Efficiency Grants – \$2,000,000*
- *Energy Building Codes Update & Compliance – \$936,364*
- *Program Management – \$2,063,636*

State Success Story – *16 Projects Funded through the American Recovery and Reinvestment Act*
 Innovative energy efficiency and renewable energy projects in Georgia are receiving \$10,000,000 in competitive grant funds through the Energy Efficiency and Renewable Energy Competitive Grant Program administered by the Georgia Environmental Facilities Authority (GEFA). The program, which was launched in July 2009, is funding 16 projects as a result of the American Recovery and Reinvestment Act (ARRA). Of the total amount of SEP funding available, GEFA allocated \$10,000,000 to create four competitive grant programs for energy efficiency and renewable energy programs – renewable energy (\$4,000,000); commercial energy efficiency (\$2,000,000); industrial energy efficiency (\$2,000,000); and residential energy efficiency (\$2,000,000). 130 applications were submitted to GEFA in September 2009. The Energy Efficiency and Renewable Energy Competitive Grant Program is the third program to award SEP ARRA funding. In December 2009, GEFA announced \$4,500,000 in rebate funds for solar energy projects in Georgia. In September 2009, Governor Perdue announced the approval of 135 energy efficiency projects for state facilities totaling \$63,100,000. The recipients of the Energy Efficiency and Renewable Energy Competitive Grants are provided below.

Renewable Energy Grant Program

BFI Waste Systems of North America, LLC – Awarded \$2,000,000 to construct a Solar Energy Cover (SEC) at the Hickory Ridge Landfill, located near the junction of I-675 and I-285 in DeKalb County. The SEC is a large scale, one megawatt solar power system.

GEORGIA

Electric Cities of Georgia – Awarded \$460,933 to build a series of solar energy production units at various municipal facilities throughout Georgia and one wind energy system in Calhoun, Georgia. The program will install five kilowatt photovoltaic units, solar thermal water heating systems, and a four kilowatt wind energy system.

Hannah Solar, LLC – Awarded \$250,000 to install 59 kilowatts of solar power, a 1.2 kilowatt wind turbine, and a solar thermal collector for domestic hot water at the Clark’s Grove Earthcraft community in Covington, Georgia.

Lanier Technical College – Awarded \$503,000 to install four different types of solar photovoltaic systems and one solar hot water system at each of four separate Lanier Technical College campuses for a total of 22 separate solar installations.

Radiance Energies – Awarded \$786,067 to install solar photovoltaic systems for seven non-profits across the state. The systems cover a vast geographic reach and will serve to benefit local communities and to educate thousands of people annually about the benefits of renewable energy.

Commercial Energy Efficiency Grant Program

Appalachian Community Enterprises Inc. – Awarded \$700,000 to provide small businesses in North Georgia, including metro Atlanta, with education, technical assistance and funding for energy efficiency strategies.

Georgia Interfaith Power and Light – Awarded \$400,000 to educate a statewide network of faith communities on energy efficient practices, including energy efficient goods and services, and to conduct energy efficiency retrofits of facilities.

Illumitron International Inc. – Awarded \$450,000 to help transform the commercial real estate market to focus on operational cost savings through energy efficient LED lighting, and to speed the deployment of LED lighting technologies.

Outlaw Consulting Inc. – Awarded \$450,000 to conduct lighting retrofit projects at convenience stores throughout the state. The program includes the establishment of a revolving fund to finance projects chosen in an annual competitive process administered in partnership with the Georgia Association of Convenience Stores for at least three years.

Industrial Energy Efficiency Grant Program

Association of Energy Engineers – Awarded \$400,000 to provide Certified Energy Manager training to members of Georgia’s industrial community over a two-year period.

Georgia Department of Natural Resources (DNR) – Awarded \$900,000 to expand the Georgia Environmental Partnership (DNR Sustainability Division, Georgia Institute of Technology and the University of Georgia) and to partner with Oglethorpe Power (OPC) and the Southeast Energy Efficiency Alliance (SEEA) to build energy assessment capacity within the state’s 38 Electric Membership Cooperatives (EMCs).

International Paper – Awarded \$700,000 to install energy efficient manufacturing equipment at facilities in Augusta and Savannah to reduce energy usage and to help increase the company’s competitiveness.

Residential Energy Efficiency Grant Program

Electric Cities of Georgia – Awarded \$500,000 to assist member utilities with the development and operation of residential energy efficiency programs to reduce residential customer energy usage and to promote energy efficiency in the residential market throughout the state.€

Estes Heating & Air Conditioning Inc. – Awarded \$500,000 to provide energy efficiency improvements to residential homes with a focus on low-to-middle income, elderly and disabled homeowners.

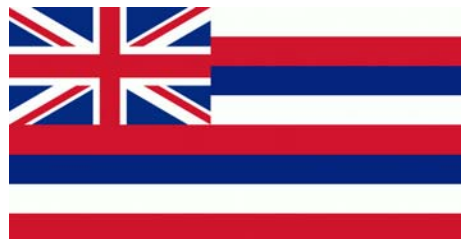
Oglethorpe Power Corporation – Awarded \$500,000 to create and/or expand energy efficiency programs available to the residential sector served by each participating EMC.

Southface Energy Institute – Awarded \$500,000 to conduct energy efficient design training sessions for builders, trade contractors, real estate agents and appraisers throughout the state.

HAWAII

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$25,930,000	\$12,969,000	50.02%

State ARRA Funded SEP Activities

Hawaii is utilizing ARRA funding through SEP to catalyze the development of energy efficiency and renewable energy projects by providing funding to “tip” major energy projects currently in the pipeline toward completion; and establishing a sustained basis for additional renewable energy projects to be developed and completed. To support these projects some of the ARRA funds are being used to hire additional staff and for program administrative costs. The Hawaii projects being conducted to obligate ARRA SEP funds follow:

- *PUC – Public Benefit Program Administrator*
- *EIS RFP Cable*
- *HECO/DBEDT RFI Cable*
- *Ocean Floor Survey*
- *Special Deputy AG Cable*
- *Energy Conference Services*
- *DLIR - WAP augment funding*
- *Green Bldg Tech Asst*
- *Hospitality Energy Star*
- *KIUC County of Kauai*
- *Technical Asst for Energy*
- *Waikiki Sea Water A/C*
- *Alt Fuel Vehicle & Infrastructure*
- *Online Permitting System (MOU)*
- *Transport Energy Diversification*
- *Community Outreach Cable*
- *Expedited Permitting Acct*
- *HECO/DBEDT RFP Cable*
- *Renewable Energy Tipping Point*
- *Subject Matter Expert Cable*

State Success Story – *Market Sector Buildings*

Technical Assistance for Green Building. RFP issued in February 2010 – RFP closing date March 22, 2010. To date, 4 entities have registered for the Green Building Technical Assistance RFP. [*\$300,000*]

Technical Assistance for Energy Efficient Buildings. RFP was issued 2/10/10 – RFP closing date March 15, 2010. To date, 8 companies registered to receive further information.

Technical Assistance for ENERGY STAR Hotels. RFP issued in February 2010 – RFP closing date March 8, 2010. To date, 9 entities have registered for the ENERGY STAR RFP. Industry and agencies welcome these opportunities for technical assistance as it will expand and create more depth to existing programs such as the Hawaii Green Business Program and Hawaii Green Government Challenge. [*\$125,000*]

HAWAII

Funding support to the Public Utilities Commission for rebate programs administered by the Public Benefits Fee Administrator. Funding support will provide increased energy efficiency for the following programs:

- *Residential Solar Water Heating Program [\$3,000,000]*
- *Residential Energy Star Program [\$1,187,500]*
- *Residential Peer Education/Monitoring Program [\$250,000]*
- *Government Energy Efficiency Program [\$1,762,500]*

These efficiency programs are well received and funds are expected to be expended very quickly.

IDAHO

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$ 28,572,000	\$13,010,980	45.54%

State ARRA Funded SEP Activities

Idaho has allocated its ARRA SEP to four major projects:

- **K-12 Public School Efficiency** – Project allocates \$17,464,693 to engineering audits and heating, air conditioning, ventilation and control tune-ups on all older Idaho schools; identification of the ones most in need of work and energy efficiency retrofits on as many of these as possible, and real time energy use monitoring and information to a sample of almost 100 schools.
- **Light Emitting Diode Demonstration Project** – Project focuses on retooling existing electronics fab and memory production equipment and processes. This project is being conducted by Micron Technology with an allocation of \$5,000,000 in ARRA funds leveraging much greater private resources.
- **Renewable Energy Enterprise Zones** – Project is focused on local communities developing projects and policies that remove barriers and support sustainable development of renewable energy projects.
- **Solar Schools** – Project focuses on demonstrating the use of schools throughout Idaho as sites for grid-connected solar electric generation. The projects will show how large-scale photovoltaic projects (20 to 100 kW) that will generate revenue, reduce general fund expenditures for energy and inspire students and communities to consider the possibility of renewable energy alternatives. \$2,750,000 is dedicated to this project.

State Success Story

The Homedale School District's pilot project was completed in August and as such laid a strong foundation for Idaho's K-12 Energy Efficiency Project. The initial work at Homedale High and two other district schools included a heating and cooling system tune-up. During the tune-up charge, air flow and control on heat pumps were optimized and air intakes were adjusted so boilers burned more efficiently. As part of the HVAC retrofit compressors were replaced on roof top units, and coils were replaced on heat pumps. Idaho's Homedale High School quite possibly could be the nation's first completed energy project funded by the American Recovery and Reinvestment Act (ARRA). That would be very fitting as Homedale High's original building was constructed in 1940 by the Works Progress Administration in the aftermath of the Great Depression.

KANSAS

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$38,284,000	\$38,284,000	100%

State ARRA Funded SEP Activities

Projects Awarded:

- *Statewide Efficiency Kansas - Revolving Loans – \$34,153,000*
- *Statewide Efficiency Kansas - Program Administration – \$1,300,000*
- *Statewide Efficiency Kansas - Marketing – \$500,000*
- *Statewide Efficiency Kansas - Loan Fee Rebate Program – \$481,000*
- *Statewide Efficiency Kansas - Energy Audit Rebate Program – \$350,000*
- *Statewide Energy Auditor Scholarship Program – \$150,000*
- *Statewide Energy Auditor Training – \$100,000*
- *Statewide Equipment for New Auditors – \$250,000*
- *Utility Rate Design - Planning for Comprehensive Changes - \$1,000,000*

Efficiency Kansas Loan Program – The Efficiency Kansas loan program facilitates cost-effective energy-efficiency improvements in existing Kansas homes and small businesses. Improvements are based on the findings of a comprehensive energy audit, performed by Efficiency Kansas qualified auditors. As a public-private partnership, Efficiency Kansas relies on the expertise of local businesses and entrepreneurs to deliver the program throughout Kansas. To learn more, visit www.energycanada.com. The following auxiliary programs and initiatives support and promote Efficiency Kansas. [*\$34 million*]

- *Rebates for Efficiency Kansas Energy Audits* – The State Energy Office will provide a \$350 rebate to offset the costs of the energy audit for the first 1,000 participants who elect to implement projects approved through the Efficiency Kansas program. To learn more, visit www.energycanada.com. [*\$350,000*]
- *Rebates to Banks for Loan Fees* – The State Energy Office will provide a \$250 rebate to banks to help defray upfront administrative costs for lenders and thus reduce costs for borrowers who chose to finance improvements through local banks. [*\$481,000*]

- *Energy Auditor Training* – In order to increase the number of qualified energy auditors working statewide, the State Energy Office identified three training institutions as qualified to provide effective training. Grants totally \$100,000 were awarded to "train the trainers" and enhance facilities. [*\$100,000*] *Approved Training Institutions:*
 - Kansas Building Science Institute
www.kansasbuildingscience.com
 - Metropolitan Energy Center
www.kcenergy.org
 - Neosho County Community College
www.neosho.edu
- *Energy Auditor Scholarships* – In order to assist Kansans with the cost of attending a training institution, the State Energy Office is offering 100 scholarships covering the full cost of training at one of the approved training institutions (see list above). [*\$150,000*]
- *Equipment for New Energy Auditors* – To minimize startup costs for energy auditors, particularly for those that may have been previously unemployed, SEO has purchased 50 "packages" of equipment that energy auditors can use. The packets will be provided to the three qualified energy auditor training institutions and other public agencies. [*\$250,000*]
- *Marketing* – To ensure that all Kansans are made aware of the Efficiency Kansas loan program, the State Energy Office contracted with Trozzolo Communications Group for professional marketing and promotional assistance. [*\$500,000*]

Utility Rate Design – Planning for Comprehensive Changes – The Kansas Corporation Commission is in the process of hiring a consultant to develop a comprehensive, collaborative planning process to assist with the redesign of utility rate structures. The objective of this initiative is to increase energy conservation by delivering more accurate price signals, which allows consumers to make better decisions on how and when they consume energy.

State Success Story

Efficiency Kansas, a new revolving loan program to help Kansans make cost-effective energy-efficiency improvements in their homes and small businesses, is off and running. Recommended projects may include insulation, sealing around doors and windows, or replacement of heating and cooling equipment, whatever the energy audit identifies as cost-effective. Dave Hill, president of Mid-America Bank in Baldwin City, is excited about the program's potential. "We have 10 applications currently in process," Hill says. "And we are already seeing a tremendous impact on our community." Efficiency Kansas partner lenders receive the full amount of the project cost at zero percent interest from the State and can loan it out at up to four percent interest. "The maximum amount of funding for approved projects is \$20,000 for homes and \$30,000 for small businesses," Hill said. "However, the average loans we are seeing right now range from \$5,000 to \$6,000." To kickoff the new program, the State Energy Office is providing the first 1,000 participants a \$350 rebate to offset the costs of the energy audit. And, in an effort to minimize the startup costs for new energy auditors, they've initiated an equipment loan program for any Efficiency Kansas qualified auditor. Although energy savings will vary, Freed said the State Energy Office estimates the average Kansan who participates in the program can expect to reduce their heating and cooling bills by 20 percent.

KENTUCKY

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$52,533,000	\$44,832,988	85.34%
<i>As of December 31, 2009 15.67 jobs were created using SEP funds</i>		

State ARRA Funded SEP Activities

Kentucky Energy Efficiency Program for Schools (KEEPS) – The proposed funding level provides meaningful support for the 174 districts by expanding the existing KEEPS program managed by the University of Louisville’s Kentucky Pollution Prevention Center (KPPC). The ultimate goal is to reduce annual building energy consumption by at least 10 percent. [\$9,808,600]

Kentucky National Energy Education Development Project (NEED) – NEED will hire four part-time regional coordinators, an administrative assistant and will purchase for 300 kits for classroom use, 500 NEED memberships and will produce workshops and conferences for schools. KY NEED is the state affiliate of the national NEED project. [\$1,000,000]

High Performance State Government Buildings – Funds will be used to purchase hardware and software for building management systems for facilities owned by the Kentucky Finance and Administration Cabinet, to hire an additional 6 staff to triple Energy Savings Performance Contract (ESPC) activity for state buildings, and to evaluate some 814 buildings as candidates for ESPCs. Funding will support the state Green Bank revolving loan fund that will finance energy efficiency and renewable energy upgrades in government buildings. [\$18,750,000]

Farm Energy Efficiency and Renewable Energy Partnership – EEC will execute a memorandum of agreement (MOA) with the Governor’s Office of Agricultural Policy to implement an “On-Farm Energy Efficiency and Production Program.” [\$2,000,000]

Home Performance with ENERGY STAR (HPwES) – Provides seed funding for a program that offers services to owners of existing homes to evaluate a home’s energy efficiency, recommend cost-effective improvements, maintain a list of qualified contractors and provide a quality assurance service that verifies that improvements have been properly installed. This would serve the population that doesn’t qualify for low-income weatherization services. [\$2,000,000]

Industrial/Commercial Sustainability Program – This program, increases funding for KPPC at the University of Louisville to perform energy analyses at industrial, commercial and institutional firms. The program would also conduct energy efficiency workshops for target groups. [\$2,230,000]

Utility Smart Grid Initiative – Seed money is provided for Kentucky to establish a program in partnership with electric utilities to explore development of smart grid concepts and their possible application in Kentucky. The development of a smart grid has the potential to result in significant energy and cost savings for Kentucky ratepayers. [\$2,650,000]

KENTUCKY

Commercial Office Building Retrofit Showcase – Funding will provide for the purchase and installation of commercially available energy efficiency or renewable energy equipment and materials, including reasonable design costs, for the retrofit of a state government building to deliver a state-of-the-art Advanced Battery Strategic Planning facility. [3,500,000]

Industrial Facility Retrofit Showcase – EEC will execute an MOA with the Cabinet for Economic Development (CED) to provide energy efficiency and renewable energy grants and incentives to industries relocating or expanding operations in Kentucky that create or retain “green jobs” while saving energy and reducing carbon emissions. [\$3,400,000]

Energy Efficiency Battery Manufacturing Initiative – EEC will execute an MOA with the National Alliance for Advanced Transportation Batteries (NAATBatt), a non-profit consortium comprising more than 50 corporations and associations, to support the purchase and installation of commercially available energy efficiency and renewable energy equipment and materials, including reasonable design costs, for the construction of the advanced battery manufacturing facility to be built in Glendale, Ky. [\$5,000,000]

State Success Story – *New “Green Bank” to Finance Energy-Efficient Improvements in Public Buildings*
In September 2009, Governor Steve Beshear announced \$14 million of ARRA State Energy Program funds were being dedicated for the establishment of The Green Bank of Kentucky financing program to help move public buildings toward greater energy efficiency and cost savings. The goal is not only to reduce energy costs for government agencies, but also to create a large number of "green collar" jobs. On December 10, 2009, less than three months after the Green Bank launched, the revolving loan fund closed its first loan in the amount of almost \$1.3 million to the Kentucky Department of Education (KDE). KDE will use the loan of nearly \$1.3 million to make improvements and implement Energy Conservation Measures (ECM) to three of its facilities: Kentucky School for the Blind; Kentucky School for the Deaf; and the Future Farmers of America (FFA) Leadership Training Center.

After the energy conservation measures are in place, KDE will realize savings of nearly \$140,000 annually from a reduction in utility costs and operating and maintenance fees. Once the Green Bank loan has been repaid, all further savings will contribute to each facility’s general budget indefinitely. Those savings will approach \$2.15 million over the life of the project, resulting in long-term savings to the taxpayers of Kentucky.

LOUISIANA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$71,694,000	\$40,741,301	56.83%

State ARRA Funded SEP Activities

“Lead By Example” Energy Efficiency – Efficiency retrofits in higher education buildings at state universities. [*25,723,807*]

Residential/Commercial Energy Efficiency – Encourage owner retrofit of commercial buildings, energy efficiency in new residential homes, and efficiency retrofits to existing homes. [*15,170,450*]

ENERGY STAR Appliance Rebates – Encourage the purchase of ENERGY STAR appliances. [*2,638,339*]

Transportation Efficiency and Alternative Fuels Program – Efficient transportation lighting and CNG for local transit, school bus, and fleet vehicles. [*9,893,772.00*]

Renewable Energy Development – Encourage deployment of commercially available, underutilized renewable energy sources. [*9,893,772*]

Education, Training, and Outreach – Teacher training, public education, home energy rater equipment grants, general ARRA outreach to promote workforce, comprehensive energy plan development. [*2,638,340.00*]

State Success Story

DNR administers energy efficiency programs throughout the state, including the Louisiana Home Energy Rebate Option Program (HERO). The HERO Program started in 2000, offering cash rebates of up to \$2,000 for residents that upgrade their home to become more energy efficient. DNR has been awarded American Recovery and Reinvestment Act funding to enhance and expand the state’s energy efficiency and renewable energy programs. With the additional federal funding, the HERO program will offer a higher cash rebate -- up to \$3,000 -- and will allow more citizens, businesses, and new home construction to be included in the program. Homeowners, homebuilders, and small business owners who choose to upgrade to higher energy efficiency standards as they build, retrofit or remodel may be eligible for the rebates. Verification of the expanded HERO Program will require the services of a RESNET certified Home Energy Rater. “The increased funding for the HERO program means more people will be able to benefit and those who do participate will benefit from both a greater rebate and the future energy savings,” said DNR Secretary Scott Angelle.

MAINE

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$27,305,000	\$26,754,000	97.98%

State ARRA Funded SEP Activities

- Residential Programs – \$9,350,000
- Large Consumer All Fuels Program – \$5,153,499
- Commercial All Fuels Program – \$6,050,000
- Workforce Development – \$1,800,000
- Small Renewables – \$1,300,000
- Building/Energy Codes – \$502,400
- Grants Connector – \$100,000
- Improved Traffic Management/LED Signals – \$700,000
- Marketing – \$1,203,213
- Administrative – \$1,145,888

State Success Story – Energy Rebates for Maine Homeowners Now Available

Every homeowner in Maine is now eligible to receive rebates of \$1,500 to \$3,000 for energy efficiency projects through the American Recovery and Reinvestment Act (ARRA). Over the next two years, up to 4,000 homes could be retrofitted with rebates from the Maine Home Performance program, which is funded with \$9 million in federal stimulus dollars as part of Maine's State Energy Program ARRA grant.

Unlike Low-Income Weatherization, there are no income limits on the Home Performance rebates administered by the Efficiency Maine program.

Preapproved weatherization projects that reduce fuel usage for heat and hot water by 25 percent would be eligible for up to \$1,500 in rebates while those that achieve energy savings of 50 percent or more would be eligible for up to \$3,000. To qualify for a rebate, homeowners must have an energy audit performed by a certified auditor.

Eligible improvements under the program include insulation and air sealing, energy-efficient replacement windows, high-efficiency heating and hot water equipment, including solar water heaters, programmable thermostats and water-saving devices.

The Home Performance Program's rebate is not only designed to help Maine homeowners save money, the program will also help support a growing green energy industry that will provide jobs for energy auditors, construction trades and retailers.

MARYLAND

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$51,772,000	\$27,662,126	53.43%

State ARRA Funded SEP Activities

- *Multi-Family Housing Retrofits for Low and Moderate Income Families* [\$10,000,000]
- *State Agency Loan Program* [\$8,000,000]
- *Clean Energy Economic Development Initiatives* [\$7,657,716]
- *Residential Renewables* [\$7,900,000]
- *Industrial/Commercial Programs* [\$7,000,000]
- *Empowering Financing Initiative* [\$4,000,000]
- *Mid-Size Renewables* [\$3,500,000]
- *Alternative Fuel Transportation & Infrastructure Grants* [\$1,600,000]
- *Clean Energy Skills Training & Building Energy Codes Technical Assistance* [1,500,000]

Multi-Family Housing Retrofits for Low and Moderate Income Families – Will provide energy efficiency retrofits for apartment units to reduce energy bills for low and moderate income families. Funding will also be used for a limited number of renewable energy projects.

State Agency Loan Program (SALP) – SALP is a revolving loan program to assist the state in leading by example. MEA plans to expand SALP zero interest loans to state agencies for renewables and energy efficiency improvements.

Clean Energy Economic Development Initiatives – MEA will aggressively seek to expand and attract emerging clean energy companies by providing economic development loans and grants.

Residential Renewables – ARRA funds will be used to expand Maryland’s successful residential renewable programs (solar, geothermal and wind).

Industrial/Commercial Programs – The I/C sector represents approximately 30% of electricity consumption in Maryland. MEA will provide financial assistance to help Maryland businesses and institutions implement energy efficiency upgrades.

Empowering Financing Initiative – The EF initiative will leverage public funds with private capital to offer local governments a voluntary clean energy loan program for their citizens.

Mid-Size Renewables – The grant program provides financial incentives for the installation of renewable energy systems in Maryland businesses and government buildings.

MARYLAND

Alternative Fuel Transportation & Infrastructure Grants – The transportation sector is responsible for 30 percent of Maryland’s greenhouse gas emissions. Alternative transportation fuels play a critical part in advancing Maryland’s sustainability and energy independence goals. MEA plans to expand and modify the existing alternative fuel grant program.

Clean Energy Skills Training & Building Energy Codes Technical Assistance – MEA has established a strategy for developing the workforce needed to support the energy efficiency and renewable initiatives for the State. Included is advanced training and technical assistance with building energy codes.

MASSACHUSETTS

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$54,911,000	\$33,300,000	60.64%

State ARRA Funded SEP Activities

Through the State Energy Program (SEP), the Massachusetts Department of Energy Resources (DOER) is working to support both state and national goals to increase the energy efficiency of the economy; reduce energy costs; improve reliability of electricity, fuel and energy services delivery; develop alternative and renewable energy resources; promote economic growth; and reduce reliance on imported oil.

Massachusetts Solar Stimulus – A cornerstone of the SEP spending plan, the program to install solar PV systems at public-owned facilities across the state. This program has three initiatives designed to foster expansion of installed capacity in support of Governor Patrick’s 250 MW by 2017 goal. [*\$20,000,000*]

- **Technical Assistance** – leverages other funding sources available for solar projects that might not be put to use without Technical Assistance. It is providing expertise on development of RFPs, drafting of contracts, leveraging Federal tax incentives when possible, technical review of RFP responses and other key tasks – enabling the Commonwealth to stretch stimulus dollars and accomplish more. This program was instrumental in enabling solar energy projects at 12 public drinking water and wastewater treatment facilities to be contracted for in a compressed time frame. Projects are financed by the US EPA State Revolving Fund for Clean and Drinking Water. Two Massachusetts firms, Nexamp, Inc. of Andover – an Iraq war veteran-owned firm – and Florence Electric of Taunton, were selected for the biggest solar installation contract in the Commonwealth’s history to install 4.1 MW of solar power at these 12 facilities from the Berkshires to Cape Cod. Putting workers on the job beginning next month and finishing by July 2011, these projects will cut municipal energy bills, reduce greenhouse gas emissions and support the state’s growing solar industry. Once complete, the solar projects will enable the 12 water and wastewater facilities to save nearly \$650,000 per year by cutting conventional energy use by approximately 4.5 million kilowatt hours annually – roughly equal to the energy needed to power 600 households per year. [*\$1,500,000*]
- **State Solar Program** – will enable the installation and operation of approximately 4 MW in solar power at Logan Airport, state colleges and universities, public housing authorities, and other buildings. Development of RFPs, bid review and contracting for these projects is accelerated by ARRA-funded Technical Assistance. Among projects in this first round of 19 facilities is a five-building, 483 kilowatt (kW) project at Berkshire Community College that will generate 550,000 kWh per year – more than the electricity used by 75 average homes. The State Solar funds will support the creation of approximately 114 jobs. [*\$10,500,000*]

MASSACHUSETTS

- ***Solar Stimulus Rebate*** – funding enabled Massachusetts to expand the next phase of the state’s extremely popular and successful Commonwealth Solar rebate program. Created by Governor Patrick in January 2008 to catalyze installation of 22 MW of solar power by 2012, the Commonwealth Solar program did that and more in less than two years. Expending its initial allotment of \$68 million by October 2009, Phase 1 of Commonwealth Solar put clean solar energy within the financial reach of more than 1,200 homeowners, businesses and municipalities, while expanding the growth of the Massachusetts solar industry. Commonwealth Solar is recognized as a primary driver of the state’s solar success story – fostering efforts that have doubled the number of jobs and quadrupled the number of companies in the solar sector in the past two years while putting Massachusetts on track to increase its complement of installed solar power 20-fold over four years. The state opened a new round of Commonwealth Solar for commercial PV systems greater than 5 and up to 200 kW with the first \$4 million block of Solar Stimulus Rebate funds on January 27, 2010, and fully subscribed the program that afternoon. This round of rebates is expected to yield approximately 4 MW of solar capacity at about 60 projects. The state will take applications on another \$4 million in rebates in April. The Solar Stimulus Rebate funding is expected to create 92 jobs and yield 8 MW of new solar power. [*\$8,000,000*]

High Performance Buildings – The largest initiative under this area is a grant program. An RFP issued by the DOER last fall for proposals to demonstrate innovative solutions that could transform the use of energy in buildings across Massachusetts opened a floodgate of creativity and innovation – yielding 112 proposals with over \$250 million in requested project costs. This month, DOER is expected to select several projects for awards of \$500,000 to \$5 million each. Winning projects must be able to achieve scalable and dramatic improvements in the energy performance of all existing buildings in the Commonwealth beyond what existing energy efficiency programs can accomplish, paving the way for widespread building energy performance improvements. Once up and running, these projects are estimated to create 485 jobs, of which 163 will result from ARRA funds alone. [*\$20,000,000*]

Leading by Example (LBE) – LBE is expanding and accelerating projects to cut energy waste and increase renewable energy at public buildings in support of the goal of the Governor’s Executive Order 484 “to reduce greenhouse gas emissions that result from state government operations by 25 percent by FY 2012.” Among LBE’s four key initiatives is initiating a two-year pipeline of over \$237 million in energy efficiency projects at dozens of state buildings. The Commonwealth used \$3.3 million in SEP dollars to fund the project management capacity required at the state’s Division of Capital Asset Management. Through their efforts, Massachusetts will complete more energy efficiency projects at state facilities in the next two years than it has done over the past two decades. The project management grant leverages the full capital cost of projects which will be financed using state bonds, with debt service paid for through a share of the energy savings. This work got off the ground last week, when Governor Patrick announced that \$1.25 million in Recovery funds will speed completion of a comprehensive energy efficiency upgrade at North Shore Community College’s two campuses. With a total cost of \$3.6 million (the balance financed through state-backed bonds), the project includes installing an energy management system and water conservation measures, putting in new insulation, and setting up new rooftop A/C units. The work will support an estimated 41 jobs and enable the college to reduce energy use by 32 percent for annual savings of \$400,000. LBE will also award up to \$10 million in SEP funds for a nation-leading Enterprise Energy Management System (EEMS). The EEMS will help the state lower energy use by enabling real-time monitoring of trends and anomalies and management of building energy performance. The project is estimated to create 108 jobs. [*\$14,900,000*]

MICHIGAN

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$82,035,000	\$25,100,000	30.60%

State ARRA Funded SEP Activities

The goal of this initiative is three fold (1) Reduce consumption of energy in state-owned and operated government buildings and facilities by 25 percent by 2012 by baseline 1990 data; (2) Ensure all new State of Michigan buildings and facilities are constructed to the United States Green Building Council’s Leadership in Energy and Environmental Design (LEED) standards and strive towards platinum level; and (3) Create private sector jobs.

Energy Conservation Measures in State-Owned Buildings – The State Energy Program (SEP) is evaluating a list of high priority, ready-to-implement, green energy projects that can be completed within the timeframe designated in the SEP American Recovery and Reinvestment Act (ARRA) of 2009 Funding Opportunity Announcement. Priority will be given to projects with highly scored energy efficiency (E2), that improve operations, and are cost effective. Distributive energy systems, i.e. wind turbine, solar panel, biomass, and geothermal will be deployed in state buildings, facilities, and/or properties, where determined to be practical and cost effective.

LEED Certification in State Government Buildings – Through this market activity, the SEP will work with the Michigan Department of Management and Budget to ensure that new buildings (design and construction) or major renovations of existing buildings costing \$1 million or more in total renovation project costs are energy efficient and environmentally sustainable in accordance with LEED standards. Where feasible, the SEP will encourage government building managers to incorporate LEED standards in all new state-owned buildings and all newly constructed buildings leased by the state.

Energy Efficiency and Supply Chain Diversification into Renewable Energy Sectors – The goal of this project is three fold: (1) Establish a baseline of energy efficiency measures in buildings and gather information on the effectiveness of equipment therein; (2) drive energy efficiency in small industrial operations; and (3) encourage Tier II and Tier III suppliers expansion into high-growth energy sectors such as wind, solar, geothermal, and biomass. [\$24 million]

Industrial Energy Efficiency – To facilitate the adoption of energy efficiency in the private sector, the BES will conduct three hundred (300) energy audits to identify opportunities for reducing energy consumption in small industrial operations. The audits will focus on processes and ancillary operations, building heating/cooling/ventilation systems, pumps/motors, lighting, etc. To drive efficiency, the BES will provide financial assistance to those businesses wanting to implement measures discovered during the course of the energy audit.

MICHIGAN

Supply Chain Diversification into Renewable Energy Sector – The BES will offer financial assistance to Tier II/III Suppliers and Original Equipment Manufacturers to diversify into high-growth renewable energy sectors, invest in advanced manufacturing processes, techniques, designs, and/or other applications use of alternative materials in the production of renewable energy systems.

Advancing Opportunities for Wind Energy in Michigan – Given that a critical part of Michigan’s 25 by 2012 energy reduction plan is dependent on renewable energy systems within the state, the SEP will finance up to five (5) anemometer projects to collect wind speed data to determine wind energy potential at 100 meters. [*\$1 million*]

State Success Story

Michigan is currently on task with the program implementation timeline previously provided to DOE.

\$30 million for energy efficiency in state buildings. The state received 65 million in projects. We are ready to issue obligations beginning the next two weeks, but are getting some more details on some key projects. In the meantime we are working on the performance contracting process to be able to extend the reach of the dollars.

The \$5 million request for projects resulted in over 12 million ask. Thus we will not do a separate request for the remaining renewable energy dollars but will incorporate in the first round.

Another \$10 million is currently being transferred into our revolving loan fund; we are preparing the request for solicitation, establishing the guidelines, while waiting on the DOE guidance on loss reserves.

100 % of our projects have received NEPA categorical exclusions.

Technology Demonstration grants for commercially available products solicitation is currently being prepared and expected to post later this month.

Addition funds will be incorporated in the RETAP program the first of July.

MISSISSIPPI

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$40,418,000	\$19,218,000	47.55%

State ARRA Funded SEP Activities

Energy Efficient Public Buildings – [\$17,000,000]

Energy Efficient Buildings – Lead by Example Grants: Achieve energy savings in targeted public facilities through energy efficiency measures, retrofits, retrocommissioning and smart metering. [\$9,950,000]

Energy Efficient Buildings – Performance Contracting: Provide grants and/or loans to public institutions to help finance energy saving upgrades through performance contracting. Funds will be provided to shovel ready projects and priority will be given to those that can leverage these funds with additional dollars. The application process will be announced in early 2010. [\$6,900,000]

Energy Efficient Buildings – Building Energy Codes: Provide training on energy efficiency codes to the commercial, industrial and residential sectors. Work with local communities to educate them on the benefits of energy building codes. [\$150,000]

Market Transformation & Technology Deployment – [\$10,000,000]

Market Transformation – Renewable Energy Projects: Provide incentives to public or private entities to help deploy commercially available renewable energy technologies. Competitively awarded based on selection criteria developed by MDA. Designed to assist companies in making investments in renewable energy systems such as solar electric generation, solar thermal water heating, biomass energy production or other renewable energy technologies. A Funding Opportunity Announcement is available now, with proposals due on December 11, 2009. [\$5,600,000]

Market Transformation – Smart Meters on Public Facilities: Deploy smart meters on public facilities and buildings. These meters will collect and aggregate data in order to better manage costs to the state and total energy usage in public buildings. [\$3,750,000]

Market Transformation – Workforce Development: Work with a community college to develop curriculum and prepare workers for the green economy. Ensure that Mississippi’s workforce is able to compete for advanced jobs in the renewable energy, energy efficient and green building sciences, design, and maintenance fields. Work in conjunction with other green workforce development initiatives that the State is pursuing. [\$400,000]

Market Transformation – Transportation Grants: Use these grants to transition multi-modal assets around the state to more energy efficient vehicles. In addition, this program will encourage the Clean Cities concept, park-and-ride, idle reduction tactics, and other required transportation-related activities under the SEP guidelines. [\$250,000]

MISSISSIPPI

Mississippi Job Protection through Energy Economic Development – [\$10,000,000]

Provide funding to eligible Mississippi businesses for energy efficient retrofits and upgrades to help cut costs, reduce energy consumption and create or retain jobs. Businesses of all sizes are eligible to receive funding for energy efficient upgrades including: building envelope; lighting; heating, ventilating and A/C; water heating; industrial systems for steam, process heating, pump, fan and compressed air; solar or biomass power systems; metering; and other energy efficient or alternative energy systems. Funding awarded in two rounds. Round one has closed; there were 25 recipients. Round two funding is scheduled for early 2010.

Administration – [\$3,418,000]

These funds will cover implementation costs as well as assist public and private entities perform energy audits to better manage their energy consumption. In addition, this program will fund outreach to the community, classroom programs, workshops and energy efficiency awareness.

State Success Story

The Mississippi Development Authority awarded the following recipients with funding under the Job Protection through Energy Economic Development program beginning in October 2009:

Applicants Recommended	Location of Project	MDA Grant	Description of Activities
A.L.P. Lighting Components, Inc.	Olive Branch	\$150,000	Energy Efficient Industrial System Upgrades
Avon Engineered Fabrications, Inc.	Picayune	\$82,000	Energy Efficient Industrial System Upgrades; Lighting Retrofits
Biflex Intimates Group, LLC	Summit	\$175,000	Lighting Retrofits
Caterpillar, Inc.	Corinth	\$70,000	HVAC System Upgrades; Energy Management System Installation; Metering; Energy Efficient Industrial System Upgrades
Consolidated Catfish, Inc.	Isola	\$125,000	Lighting Retrofits; Energy Efficient Industrial System Upgrades; Energy Management System Installation
Cooper Industries	Lumberton	\$130,000	Lighting Retrofits
Day Brite Lighting	Tupelo	\$60,000	Lighting Retrofits; HVAC System Upgrades
Eaton Aerospace, LLC	Jackson	\$200,000	Energy Management System Installation; HVAC System Upgrades
Georgia Gulf Chemicals and Vinyls	Aberdeen	\$435,000	Energy Efficient Industrial System Upgrades
Jackson Paper Co.	Jackson	\$62,250	Lighting Retrofits
Malaco, Inc.	Jackson	\$50,000	Lighting Retrofits; HVAC System Upgrades; Energy Management System Installation
Masonite Corporation	Laurel	\$400,000	Energy Efficient Industrial System Upgrades
Mid-Delta Home Health Inc.	Belzoni	\$21,885	Lighting Retrofits; HVAC System Upgrades; Energy Management System Installation
Nerhus Properties, Inc.	Ridgeland	\$51,000	Lighting Retrofits; Energy Management System Installation
Nissan	Canton	\$700,000	Lighting Retrofits; HVAC System Upgrades; Energy Efficient Industrial System Upgrades
Omnova Solutions, Inc.	Columbus	\$400,000	Lighting Retrofits; Energy Efficient Industrial System Upgrades
Peavey Electronics	Meridian	\$425,000	Lighting Retrofits; HVAC System Upgrades; Energy Efficient Industrial System Upgrades
Pioneer Aerospace Corporation	Columbus	\$110,000	Lighting Retrofits
Resinall Mississippi, Inc.	Hattiesburg	\$200,000	HVAC System Upgrades; Energy Efficient Industrial System Upgrades; Energy Management System Installation
Shuqualak Lumber Co., Inc.	Shuqualak	\$100,000	Energy Efficient Industrial System Upgrades
Sqwincher Corporation	Columbus	\$35,000	HVAC System Upgrades; Energy Management System Installation
Viking Range Corporation	Greenwood	\$450,000	Lighting Retrofits; HVAC System Upgrades; Energy Management System Installation
Zeon Chemicals, LP	Hattiesburg	\$205,000	HVAC System Upgrades; Energy Management System Installation; Building Envelope

MONTANA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$25,855,000	\$21,750,000	84.12%

State ARRA Funded SEP Activities

The state plan divides the funds into five categories:

State Buildings Energy Conservation Program (SBECP) – [\$22,310,376]

The SBECP reduces operating costs in state facilities, including the state universities and community colleges. Cost effective energy efficiency projects in state-owned buildings are identified, investigated and funded. The resulting energy savings are captured and used to repay the investment. This existing program has been expanded and 87 projects are underway with ARRA funding. Five projects are completely finished. Energy studies are complete on 79 projects and 7 are in progress. Architectural and engineering design is complete for 23 projects and 48 are in the design phase. Seven projects are in various construction phases with one nearly complete. Annual energy savings for SBECP are anticipated to be nearly \$2 million and 430,000 MMBTU.

Alternative Energy Revolving Loan Programs (AERLP) – [\$1,711,366]

The AERLP provides a financing option for homeowners, small businesses, non-profit organizations and local governments to install alternative energy systems. This existing program has been expanded and ARRA funds supplement current state funding. The additional ARRA funds will be repaid and revolve into future renewable energy loans. A higher dollar amount for loans, extended terms, and lower interest rates have been established. The rate for 2010 is 4 percent and applications are being accepted.

Energy Development & Demonstration Grants – [\$1,000,000]

The 2009 Montana Legislature appropriated \$1 million in ARRA funding for grants for renewable energy development in Montana. This is a new grant program to fund technology development and to advance alternative energy systems and the feasibility of these systems. These technologies must have completed the research phase and be in production, but not yet well known or well utilized in Montana. The SEP is authorized to provide grants up to \$500,000 to eligible projects for this program.

Recycling Grants – [\$526,300]

Nineteen recycling infrastructure project grants were recently awarded in Montana, from more than \$1 million dollars that was requested. Local governments, non-profits, and private businesses were funded. Scoring criteria included energy saved through increased recycling, increased employment and contribution to recycling infrastructure.

MONTANA

Education and Information – [\$306,958]

An expanded information campaign is directed at homeowners, businesses, and local governments about the benefits of energy efficiency in structures and facilities. Information is also regularly disseminated about tax credits at the state and federal level for energy efficiency and renewable energy projects. The state energy emergency plan is also scheduled to be updated using the ARRA funds.

State Success Story

Capitol Complex Boiler Replacement and Upgrade – [\$340,000]

The State Capitol Complex boilers were upgraded with new modulating burners that allow the units to remain in operation without cycling on and off, saving approximately \$17,000 per year (1,700 dkt). A second phase of the project involved installation of a backup fuel oil tank to supply fuel at any given time that natural gas is unavailable. This has resulted in the plant being placed on an interruptible natural gas schedule with an annual saving estimated at \$22,000 per year.

NEBRASKA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$30,910,000	\$26,535,000	85.85%

State ARRA Funded SEP Activities

- *Advanced Renewable Energy Projects—[\$5,000,000]*
- *Dollar and Energy Saving Loan Program— [\$11,000,000]*
- *University of Nebraska Building Energy Efficiency—[\$3,600,000]*
- *State Colleges Building Energy Efficiency— [\$600,000]*
- *Community Colleges Building Energy Efficiency— [\$1,800,000]*
- *State Building Energy Efficiency— [\$4,000,000]*
- *Building Energy Code Training and Enforcement— [\$315,000]*
- *Renewable Energy Curriculum—[\$1,910,000]*
- *Consumer Information, 5th Grade Energy Education Program— [\$585,000]*

The Nebraska Energy Office currently has an open Request for Proposals for a statewide 5th Grade Energy Education Program; has \$2,740,000 under consideration for University building energy efficiency projects; \$1,910,000 Request for Proposals to Community Colleges for development of Renewable Energy Education Curriculum; and \$5 million in Advanced Renewable Energy projects are in federal NEPA review.

State Success Story

The Nebraska Energy Office added \$11 million of State Energy Program (SEP) ARRA funding to its unique Dollar and Energy Saving Loan Program (Loan Program). This allows the state's lenders to make 2.5% interest loans to commercial, including K-12 schools, and industrial businesses to finance building energy efficiency and renewable energy projects. Loans are available at more than 600 locations across Nebraska. The Energy Office invests in energy loans after projects are completed and loans are finalized. Using SEP ARRA funds, the Energy Office makes the investment by purchasing 75% of loans at zero percent (0%) interest which results in the 2.5% rate to the borrower. Monthly, lenders remit the Energy Office's share of repayments which are used to invest in new energy loans. ARRA funded investments totaling \$964,311.74 have been made thus far. The Energy Office has administered the Loan Program since 1990; has invested \$102.5 million in 25,441 loans; and has leveraged \$100.9 million from the state's lenders. As of December 31, 2009, loan losses on the Energy Office's investments total only \$64,906 on \$203.4 million in energy loans. Nebraskans are saving energy through this unique loan program and will continue to do so far into the future.

NEW HAMPSHIRE

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$25,827,000	\$17,756,464	68.75%

State ARRA Funded SEP Activities

- *Building Code Compliance – \$674,147*
- *Business and Commercial Energy Efficiency and Renewable Energy Loan/Grant Program – \$2,534,893*
- *Community College System of New Hampshire – Energy Efficiency and Renewable Energy Building Projects – \$1,311,018*
- *Expanded Alternative Fueled Vehicle/Rideshare – \$414,664*
- *Expanded Business Energy Efficiency Program – \$786,409*
- *Expanded Procurement Standards – \$9,967*
- *Expanded Renewable Energy Program – \$580,921*
- *Feasibility Studies and Training Program – \$457,098*
- *First Time Homebuyer’s Energy Efficiency Program – \$1,519,331*
- *Innovative Initiatives – \$1,574,546*
- *Municipal Energy Planning Program – \$340,803*
- *Program Support – \$487,332*
- *Residential Energy Efficiency Program Expansion – \$2,045,090*
- *Small Business Energy Efficiency and Renewable Energy Grant and Loan Program – \$1,033,392*
- *State Building Energy Efficiency and Renewable Energy Program – \$10,746,369*
- *University System of New Hampshire Energy Efficiency and Renewable Energy Building Projects – \$1,311,018*

State Success Story

The New Hampshire SEP ARRA funds are nearly all committed and 70% are under contract. New Hampshire has 16 separate programs. Their largest program is state building energy efficiency retrofits (\$10 million). This program already has a completed project. The Manchester Armory’s boiler system was retrofitted (replaced) and the final walk through will occur during the first week in March. Also New Hampshire is launching its Entrepreneur Energy Fund (Revolving Loan Fund) on March 1st.

NEW JERSEY

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$73,643,000	\$20,643,000	28.03%

State ARRA Funded SEP Activities

The State proposes to allocate its \$73.6 million in SEP-ARRA funds for:

- Competitive grants for state-sponsored renewable energy and energy efficiency projects for qualifying State entities. [*\$20,643,000*]
- A financing program for residences via the New Jersey Housing and Mortgage Finance Agency (NJHMFA). The program would fund solar installations on multifamily buildings for income-qualified recipients. [*\$7,000,000*]
- Financing program for residential energy efficiency, via NJHMFA – offering financing to single-family and multifamily (1-4 units) owners. [*\$4,000,000*]
- Multi-family EE improvement loan program for multi-family residences. [*\$4,000,000*]
- EE programs for customers of Municipal-owned utilities, who are currently ineligible for NJ's Clean Energy Program incentives. [*\$17,000,000*]
- A program to retrofit State buildings with energy efficiency measures. [*\$6,000,000*]
- Grants and loans for efficiency and renewable energy applications. [*\$15,000,000*]

State Success Story – *Innovation in Energy Efficiency and Renewable Energy – Public Entities*

On August 20, 2009, the New Jersey Board of Public Utilities (BPU) approved \$20 million in competitive grants for innovative energy efficiency and renewable energy projects at state facilities. This new program is funded with federal stimulus money allocated to New Jersey's State Energy Program (SEP) under the American Recovery and Reinvestment Act (ARRA). The primary goals of the program are to: reduce the amount of greenhouse gases produced to meet the State's electricity needs, support the goal of the State's Energy Master Plan ("EMP"), provide funds that will encourage the creation of green collar jobs in the state, and further the goals of ARRA and the EMP.

The following grants have been selected:

- *New Jersey Meadowlands Commission – Landfill Solar Project* [*\$8,500,000*]
- *New Jersey Institute of Technology – Residence Hall Energy Upgrade Project* [*\$1,675,084*]
- *William Paterson University – Smart Buildings/Energy Management Project* [*\$1,120,000*]
- *Richard Stockton College – Solar Thermal/Solar PV and Demand Side Management* [*\$3,465,000*]
- *Rutgers Office of Research and Sponsored Programs – Gas Boiler Retrofit Project* [*\$6,100,000*]
- *New Jersey Transit – Solar PV Kearney Project* [*\$4,320,000*]
- *Atlantic City Convention and Visitors Authority – Wind Turbine Generator* [*\$1,500,000*]

NEW MEXICO

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$31,821,000	\$27,100,000	85.16%

State ARRA Funded SEP Activities

Buildings – Implementation of energy-saving technologies that demonstrate energy efficiency, clean technologies, and green building practices in design and construction; Operations and maintenance, and measurement and verification of energy use for public buildings; Energy-efficiency retrofits of buildings that have expected energy reductions based on energy audits and/or life-cycle cost analyses ; and Use in any government building of onsite renewable energy such as solar thermal, solar electric, wind, or geothermal.

Transportation – A program to increase transportation energy efficiency, including programs to reduce vehicle miles traveled and accelerate the use of alternative transportation fuels (compressed natural gas, propane, electricity, hydrogen, cellulosic ethanol, methanol, bio-diesel) and hybrid vehicles.

Community – Application of energy distribution technologies such as district heating and cooling systems that will result in reduction of fossil-fuel based energy consumption; Application of technologies that capture methane from landfills and generate electricity or natural gas; Programs or projects that reduce energy consumption for pumping, treating, or otherwise handling water; Programs to increase workforce readiness in energy-related fields or green building disciplines, including improved building code implementation.

Education – A public education program to promote energy conservation; Education and outreach for building professionals to expand their knowledge and expertise in energy-efficient design and construction; Educational programs to support adoption and implementation of improved building codes and inspection services for public, commercial, industrial, and residential buildings to promote energy efficiency and renewable energy; Energy efficiency behavioral programs for building occupants and facilities' staff with clear, measurable energy reduction goals.

State Success Story

On October 6, 2009, more than \$24 million in federal stimulus funds from the State Energy Program was awarded go to New Mexico schools, colleges, tribes and other agencies to improve energy efficiency. The New Mexico Energy, Minerals and Natural Resources Department awarded funding to 28 projects selected through a competitive process. Awardees are listed in the following table.

NEW MEXICO

Award Winner	City/Town	County	Project	Award
University of New Mexico	Albuquerque	Bernalillo	Energy Efficient Lighting	\$230,000
NMSU – Grants Campus	Grants	Cibola	Energy Upgrades	\$491,557
Fort Sumner Municipal Schools	Fort Sumner	De Baca	Energy Efficient Lighting and HVAC	\$500,000
Lordsburg Municipal Schools	Lordsburg	Hidalgo	Lighting Replacements at Five School Buildings	\$171,500
Lovington Municipal Schools	Lovington	Lea	Energy Efficient Lighting	\$116,000
Jemez Pueblo	Jemez	Sandoval	Biomass Heating for Walatowa Center	\$99,990
Institute of American Indian Arts	Santa Fe	Santa Fe	Insulation Upgrades	\$434,660
Magdalena Municipal School District	Magdalena	Socorro	Solar Thermal Collector and Storage	\$119,800
Rio Metro Regional Transit District	Belen Bernalillo	Valencia Sandoval	Solar-Powered Shade Parking Structures; Bike Lockers	\$492,600
Dexter Consld. Schools	Dexter	Chaves	Energy Efficient Lighting 4 School Dist.	\$139,406
Dexter Consld. Schools	Dexter	Chaves	Lighting Controls Project	\$360,593
Silver City Consolidated School District	Silver City	Grant	Insulated Roofs, Solar Hot Water, and Energy Management System	\$357,500
Clovis Municipal Schools	Clovis	Curry	LED Office Lighting	\$76,925
Clovis Community College	Clovis	Curry	Lighting and Cooling System	\$119,104
Jicarilla Apache Nation	Dulce	Rio Arriba	Geothermal Heating and Cooling, Solar Array, Waste-Oil Burner	\$350,000
Northern NM College	El Rito	Rio Arriba	Heating System Replacement	\$495,500
Northern NM College	Espanola	Rio Arriba	Repair Existing Solar Systems	\$456,775
San Juan College	Farmington	San Juan	Solar, Energy Efficiency, Workforce /Wind Training, Community Education	\$475,000
Roy Municipal Schools	Roy	Harding	Energy Efficiency Measures	\$177,000
State Fair Commission	Albuquerque	Bernalillo	Expo New Mexico Parking Lot LED	\$71,500
State Fair Commission	Albuquerque	Bernalillo	Tingley Coliseum LED Light	\$266,315
University of New Mexico	Albuquerque	Bernalillo	Solar System Upgrades	\$128,000
Cloudcroft Schools	Cloudcroft	Otero	Energy Efficient Lighting	\$150,000
NM School for the Blind and Visually Impaired	Alamogordo	Otero	HVAC, Energy Efficient Lighting and Building Envelope Improvements	\$235,000
New Mexico Department of Cultural Affairs	Santa Fe	Santa Fe	Window and HVAC Replacement for Museum of International Folk Art	\$500,000
New Mexico Department of Information Technology	Statewide	Statewide	Reduce State employee travel through web based collaboration technologies	\$230,000
NM Gen. Services Dep.	Statewide	Statewide	Lighting, Insulation, HVAC Upgrades	\$12,000,000
NM DOT	Statewide	Statewide	LED Traffic Light Bulb Replacement	\$5,000,000
TOTAL				\$24,244,725

NEW YORK

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$123,110,000	\$103,000,000	83.67%

State ARRA Funded SEP Activities

NYSERDA’s strategy for disbursing the ARRA SEP funds is to fund as many viable projects as possible to support the implementation of energy projects that: reduce fossil fuel and other emissions; reduce total energy use; and improve energy efficiency. To maximize benefits throughout the state, NYSERDA targeted money for energy audits, and for implementation for energy efficiency, renewable energy and clean fleet projects. NYSERDA also developed a strategy to ensure funding was distributed throughout the state and was targeted for areas with higher unemployment. These strategies were included to provide a comprehensive approach that maximized benefits statewide.

Project Implementation Funding for State Energy Program

\$74,000,000 of the State’s total SEP funds were allocated to this program. Eligible applicants were organizations in the MUSH market — municipalities, public universities, public K-12 schools, and hospitals or non-profits. NYSERDA received over 700 proposals and was able to fund over 200 projects. This is a competitive program where the proposals rated with the best cost-effectiveness and energy savings and demonstration of the project to move forward have been selected. The amount of energy savings will benefit New York State tax-payers and allow for future development. Four examples of these projects are noted in the “Success Stories” below. This program was issued within a month of DOE approval of NYSERDA’s operating plan.

Energy Conservation Study Program

\$5,000,000 was made available State-wide for the completion of comprehensive energy studies in order to prepare for the other programs being offered. Many of these completed studies were then utilized to propose energy efficiency, renewable energy and clean fleet projects through subsequent ARRA solicitations, as well as supporting future work that will be funded in part by New York’s System Benefits Charge programs. This program was issued within two weeks of DOE approval of NYSERDA’s operating plan and 100% of funds available are awarded.

Competitive Capacity-Based Incentive Program

\$10,000,000 was provided to eligible installers on the basis of a fixed dollar amount (dollars per kW) of photovoltaic capacity being proposed to be installed. NYSERDA anticipates funding close to 7 MW of solar power generation through this program statewide.

Energy Code Programs

More than \$5,000,000 is available for two solicitations to assess and ensure compliance with New York State Energy Codes, thus allowing for both immediate energy savings and for future improvements to the Code.

State Success Story

Of the \$5,000,000 available for Energy Conservation Studies, nearly 100% of the Energy Conservation Program has been awarded and work under way. This program is funding energy audits for 220 customers throughout New York State and will drive the next energy projects. Of the \$74,000,000 available for Project Implementation Funding, over \$65,000,000 in SEP funds have already awarded and are currently developing contracts and completing the pre-implementation compliance steps required by ARRA. Funding was provided to the following sectors through NYSERDA's RFP1613:

- *Hospitals/Not-for-Profits* — \$21 million
- *Public K-12 Schools* — \$22 million
- *Municipalities* — \$16 million
- *Public Colleges & Universities* — \$6 million.

The average payback from these awards is only 4.5 years. Example projects from each of the above sectors are presented below.

New York Presbyterian Hospital (NYP) — LED Lighting Upgrade and HVAC Replacement and Geothermal System

NYP is both a prominent university hospital and one of the largest energy consumers in New York City. It is receiving two awards under this program. The first is for \$357,178 to implement a lighting retrofit at their Columbia Presbyterian Medical Center garage. The funds provided through this program will allow NYP to retrofit their existing inefficient lighting system with state-of-the-art solid state lighting technology, yielding not only significant energy savings but providing a safer and more comfortable environment for patients, visitors, and employees. The proposed LED lighting system will provide annual energy reduction of over 450,000 kWh, saving the hospital over \$138,000 each year. The second award is for \$1,000,000 to support a comprehensive HVAC and geothermal retrofit project at their Westchester Division location. This project will save over \$340,000 annual in heating and cooling costs.

Saranac Lake Central School District – Biomass Wood Boiler

The Saranac Lake Central School district received a \$361,513 award to install a 1.7MMBtu high efficiency, low emissions wood pellet boiler. This advanced technology heating system will serve the building housing 700 elementary and middle school students. The selected high-efficiency biomass boiler will serve as the primary heat source for the building and replace up to 80% of the existing heating load on oil boilers. This new system will result in cost savings of over \$40,000 per year and a reduction in greenhouse gas emissions through the transition from fossil to renewable fuels.

University at Buffalo – High Efficiency Computing Center

The University at Buffalo's Center for Computational Research has received \$875,000 to implement several green IT initiatives to increase the energy efficiency of their data center, the largest on any State University of New York campus. This project will: replace several hundred existing computer servers with high density, thermally advantageous low-voltage processors; implement a chilled water rack-based cooling; install advanced monitoring equipment for dynamic control to optimize the machine room environment; and employ virtualization to reduce the number of servers. The Center will save \$344,000 per year by consuming less power and reducing cooling needs.

Onondaga County — Waste Heat Recovery

Onondaga County uses a district heating and cooling plant (DH&C) to serve county buildings and was awarded approximately \$200,000 to implement an energy efficiency project for the plant. This project will re-capture and re-use waste heat that is currently being rejected to the outdoors to heat domestic water for the County Justice Center. The estimated annual energy cost savings is over \$44,000. In addition to the energy and dollar savings, this project will also reduce CO₂ emissions by more than 230 tons per year.

NORTH CAROLINA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$75,989,000	\$20,178,573	26.55%

State ARRA Funded SEP Activities

Support Small Businesses and Industry through Energy Savings [\$11,500,000]

- Energy savings for small business and industry
- Commercial renewable energy system grants
- Nonprofit energy management program

Growing North Carolina's Green Workforce [\$7,850,000]

- Workforce development initiative – Through its community college and university systems as well as other workforce development agencies, North Carolina will develop a multi-level program to meet the training and workforce needs of the emerging green economy.
- Continuing education for residential and commercial building code inspectors.

Creating an Energy Investment Revolving Loan Fund [\$18,000,000]

- Energy Loan Fund – A revolving loan fund will provide no- and low-interest loans to businesses, nonprofits, local governments, public schools, and other agencies. The Fund will ensure that these funds continue to support renewable energy and energy efficiency into the future by providing zero or low-interest financing up to \$1 million for up to ten years.

Improving Government Energy Efficiency [\$9,950,000]

- Developing energy assessments and strategic energy plans – North Carolina will work with local agencies, including community colleges, public schools and local governments, to conduct energy assessments and develop strategic energy plans so participating agencies can implement long-term energy saving strategies.
- Energy efficiency upgrade grants – Grants for energy efficiency upgrades will address repair and renovation projects at state agencies, universities and community colleges.

Promoting Residential Energy Efficiency and Renewable Energy [\$10,000,000]

- Promoting energy efficiency in new affordable housing units –North Carolina will work in two targeted sectors to improve energy efficiency in new affordable housing.
- Energy efficiency audits and implementation for existing homes – North Carolina will provide partial funding toward the cost of comprehensive home energy audits for owners of existing homes and grants to assist homeowners with implementing audit recommendations.

NORTH CAROLINA

Fostering Renewable Energy Technology and Resource Innovation [\$13,500,000]

- *North Carolina Green Business Fund (NCGBF)* – Established by the N.C. General Assembly in 2007, the Fund awards competitive grants to organizations with innovative projects.
- *Statewide alternative fuel and renewable energy innovations program* – This competitive grant program targets expanding local infrastructure for plug-in and other alternative fuel vehicles, supporting biofuels development, and funding renewable energy projects.

State Success Story

18 small North Carolina companies will receive grants up to \$100,000 to develop and market promising green and alternative energy technologies and products. It is estimated that more than 200 private sector jobs will be created as a result of the grants, spread across 18 cities and spanning 18 counties in North Carolina. The federal Recovery dollars come through the N.C. Energy Office’s State Energy Program and are administered by the Green Business Fund run by the state Board of Science and Technology in the N.C. Department of Commerce. About half the projects fell under the “environmentally conscious clean technology and renewable energy” category while the remainder fell under the green building and biofuels categories. The awards ranged in amounts from \$31,985 to \$100,000.

NORTH DAKOTA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$24,585,000	\$21,333,333	86.77%

State ARRA Funded SEP Activities

- Promote various energy efficiency and conservation efforts, including providing energy education resources for North Dakota's agricultural and industrial sectors that will help farmers, ranchers, contractors, and building tradesmen reduce their energy use.
- Offer training, technical assistance, and marketing and outreach support to promote the adoption of energy efficient construction practices and agricultural technologies, conservation techniques, and the use of clean renewable energy sources.
- Lead by example, improving the energy efficiency of state buildings and installing renewable energy systems at state facilities.
- Create a statewide energy efficiency and renewable energy rebate program, in partnership with investor-owned, municipal utilities and rural electric cooperatives.
- Establish an Emergency High Efficiency Furnace Rebate Program, which will assist victims of the 2009 spring floods with the incremental cost of installing a high efficiency furnace to replace standard efficiency furnaces and heating systems.

SEP ARRA Awards

- *North Dakota State University – Agriculture & Biosystems Engineering Department: Agricultural Energy Audit Assistance & Education – \$47,000*
- *American Lung Association of North Dakota: Clean Cities Support – \$25,000*
- *Sacred Heart Monastery: Wind Turbine Inspection & Maintenance – \$4,500*
- *North Dakota State University – HERS Training – \$7,500*
- *City of Grand Forks: Landfill Gas Feasibility Study – \$15,000*
- *Chippewa Tribal Industries: Wind Monitoring – \$10,000*
- *North Dakota State University – AgriculEnergy Code Survey of Current Practices – \$9,300*
- *North Dakota Building Officials Association: Code Training – \$5,400*
- *North Dakota Association of Builders: Energy Efficient Building Practices Training for Building Trades Classes – \$9,000*

NORTH DAKOTA

State Success Story

North Dakota has 80% of their ARRA SEP funds committed. Three promising projects have received an excellent response: (1) Blender Pumps – this provides up to \$40k to individual fuel retailers to install blender pumps throughout the state. Communities installing blender pumps include larger communities such as West Fargo, Minot, and Grand Forks as well as smaller, rural communities such as Edgeley, Wyndmere, and Bowman; (2) Flare Gas Electricity Generating – a Williams County, North Dakota, oil refinery has been awarded a grant to capture flare gases that will in turn run a micro turbine to generate electricity; (3) EERE Rebates to Utilities – North Dakota utilities (including Co-ops) are receiving funds for consumer rebates for installation of energy efficiency and renewable energy equipment (munis are receiving system upgrade grants).

OHIO

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$96,083,000	\$25,800,000	26.85%

State ARRA Funded SEP Activities

Deploying Renewable Energy in Ohio – [\$42,583,000]

Deploying Renewable Energy in Ohio is divided into three programs: (1) renewing manufacturing through deployment, (2) transforming waste to energy, and (3) advancing biofuels beyond the basics. The program will utilize a variety of renewable energy sources, including solar, wind, and biomass waste. It will also include related technologies, such as fuel cells, and deploy energy storage technologies for electricity, heat, biofuel, and bioproducts. *[DOE Minimum Job Creation Estimate: 381]*

Making Efficiency Work – [\$8,000,000]

Ohio's existing buildings and new construction present significant opportunities for reduction in energy waste through energy audits, lighting retrofits, heating ventilation and air conditioning retrofits, geothermal installations, deployment of green building techniques and technologies, and improvements to building envelopes through air sealing and insulation. The following activities are included: demand reduction, energy building codes, geothermal, lighting, and thermal efficiency for commercial and residential sectors. *[DOE Minimum Job Creation Estimate: 109]*

Banking on New Energy Financing – [\$30,000,000]

Ohio will develop a revolving loan program to improve access to capital for energy efficiency and renewable energy projects through a public-private partnership using State Energy Program dollars in tandem with debt or equity investment participation. Financing for energy projects would advance several goals: (1) facilitating improvements that yield energy efficiency; (2) re-tooling existing manufacturing operations to supply the renewable energy market; (3) building domestic sources of renewable energy technologies; (4) expanding production in emerging energy companies; and (5) retaining and creating jobs associated with each of those opportunities. Through an "Energy Alliance" initiative, federal stimulus dollars would serve as match-funding for other sources including banks, non-profits and investors willing to offer debt, equity, or low-interest financing for energy projects in the commercial, industrial, institutional, and aggregated residential sectors. *[DOE Minimum Job Creation Estimate: 3]*

Targeting Industry Efficiency – [\$15,000,000]

This initiative will incentivize efficiency investments for companies not otherwise served by utility efficiency programs in these targeted industries: Advanced Energy and Environmental Technologies; Aerospace and Aviation; Agriculture and Food Processing; Bioscience and Bio-products; Refrigerated Warehousing and Distribution; Instruments, Controls, and Electronics; Motor Vehicle and Parts Manufacturing; and Polymers and Advanced Materials. This initiative covers the following activities: combined heat and power, demand reduction, distributed energy generation, industrial assessments for carbon mitigation opportunities, industrial processing, industries of the future, and motors and other industrial systems. *[DOE Minimum Job Creation Estimate: 217]*

Carbon Management Strategy – [\$500,000]

This initiative will utilize an integrated collaborative planning process to address energy policy related to energy diversity, sustainability, and innovative policies to help secure a reliable energy future, led by the Governor's Energy Advisor. Other components of the strategy will build on climate change planning, energy use and modeling, policy and energy legislation. *[DOE Minimum Job Creation Estimate: 5]*

State Success Story – Governor Announces Ohio Industry Energy Efficiency Awards

On February 8th Governor Ted Strickland announced that 18 Ohio projects will receive more than \$11,000,000 in industry efficiency grant awards funded through the American Recovery and Reinvestment Act's State Energy Program. Selected companies will use these industry efficiency awards will use the funds for energy efficiency improvements in their manufacturing facilities.

The recipients include:

Company	City/County	Amount	Jobs Saved/Created	Energy Savings
American Trim	Lima, Allen County	\$994,000	39 Created	16,800 million BTUs annually
Clow Water Systems	Coshocton, Coshocton County	\$515,844	40 Created/Retained	N/A
Delphi Automotive Systems, LLC	Warren, Trumbull County	\$979,000	N/A	\$388,378 annually
Edge Plastics, Inc	Mansfield, Richland County	\$651,540	44 Created/Retained	35% Energy Savings
Empire Die Casting Company, Inc	Macedonia, Summit County	\$835,000	8 Created 157 Retained	N/A
General Motors	Defiance, Defiance County	\$518,232	N/A	\$515,013 annually
Green Bay Packaging, Inc	Cincinnati, Hamilton County	\$911,936	30 Created 59 Retained	40% Energy Savings
Kovatch Castings, Inc	Uniontown, Summit County	\$1,000,000	45 Created	47% Energy Savings
Mansfield Plumbing Products, LLC	Perrysville, Ashland County	\$732,589		2.67 mega-watt hours per year
New Horizons Baking Company	Norwalk, Huron County	\$1,000,000	161 Retained	25% increase in EE
Orlando Baking Company	Cleveland, Cuyahoga County	\$486,807	10 Created/Retained	837 mega-watt hours 5,995 million BTUs
Republic Storage Systems, LLC	Canton, Stark County	\$550,000	6 Created	N/A
Shearer's Foods, Inc	Brewster, Stark County	\$291,879	26 Created/Retained	\$540,483 annually
SMART Papers Holdings, LLC	Hamilton, Butler County	\$439,600	210 Retained	N/A
Thaler Machine Company	Springboro, Warren County	\$348,756	109 Created/Retained	N/A
Timken Company	Canton, Stark County	\$1,175,000	N/A	N/A
WEK Industries, Inc	Jefferson, Ashtabula County	\$250,000	31 Created	4,992 million BTUs
Wyandot, Inc	Marion, Marion County	\$175,000	10 Retained	\$110,000 annually

OKLAHOMA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$46,704,000	\$43,742,146	93.65%

State ARRA Funded SEP Activities

A working group comprised of state and business leaders was convened early in the process to establish priorities that would best serve the interests of Oklahoma, taking into consideration the requirements of DOE. Thereafter, a separate advisory committee evaluated 211 proposals submitted from all over the state and ultimately selected 4 projects to receive loans from the SEP ARRA funds and 20 projects to receive grants. These projects, above, were submitted to the DOE for funding. Projects range from compressed natural gas (CNG) conversions to furthering smart grid technology to building energy efficiency to energy education. In keeping with DOE’s recommendation, the working group gave priority to projects that achieve a high degree of leveraging and/or extend the impact of the funds.

Under the RFP (request for proposal) requirements, private entities were eligible to submit loan applications, and public entities were eligible for grants. Four loan projects among the 11 loan applications were recommended for funding at 3% interest over a 15-year payback period. Twenty projects were recommended for grants. The Commerce Community Development Office has prepared grant and loan contracts for the recommended projects to ensure quick project implementation.

State Success Story

Alternative Fuel Vehicles and Infrastructure

Northeast Oklahoma Public Facilities Authority – New CNG Fueling stations in Tahlequah and Stillwell. [*\$1,484,298*]

Oklahoma Department of Central Services, Fleet Management Division – Alternative fuel vehicle conversion in Oklahoma City. [*\$1,000,000*]

Metropolitan Tulsa Transit Authority – Convert diesel buses and retrofit 44 diesel buses with CNG motors. [*\$3,360,000*]

Tulsa Public Schools – Convert 140 school bused from engines that run on diesel fuel to engines that run on the more efficient CNG. [*\$3,950,112*]

Building Energy Efficiency

Oklahoma State University – Energy Savings Performance Contract for campus-wide improvement measures in Stillwater. Amount awarded accounts for 12.5% of the total project costs. [*\$2,500,000*]

Oklahoma State University Center for Health Sciences (OSU-CHS) – Building energy efficient retrofits to OSU-CHS in Tulsa. Completion of this project will result in annual savings of greater than \$250,000. [*\$1,500,000*]

OKLAHOMA

Community Action Development Corporation (CADC) – Building energy efficient retrofits to Head Start Center in Frederick. CADC has utilized \$125,000 of the Agency's own resources to renovate a 5,000 square foot metal building for a new Head Start Center to serve 75-85 three and four year-old children. [\$55,000]

Native American Cultural and Educational Authority – Ice Storage System for Central Mechanical Unit for the American Indian Cultural Center & Museum in Oklahoma City. [\$1,000,000]

Oklahoma Sustainability Network – Statewide project to update Oklahoma's building codes The purpose of this two-year project is to update Oklahoma's building codes and promote energy efficient construction technologies across Oklahoma as a matter of public policy, economic development and environmental stewardship. [\$448,086]

Demand Reduction for Oklahoma

The Board of Regents of the University of Oklahoma – Electric vehicle solar charging station. University will construct covered storage and charging points for up to eight (8) small electric utility vehicles on its Norman campus. [\$15,715]

Oklahoma Municipal Power Authority – Audits, installation of ground source heat pumps, education in multiple locations. [\$3,000,000]

Red River Technology Center – Geothermal unit for new health building in Duncan. [\$303,160]

Tulsa Industrial Authority – Geothermal, solar, and energy efficient LED lighting. Demonstrate effective use of sustainable energy alternatives in supporting public purposes. Matching funds for this project will be in the amount of \$3,549,000. [\$2,580,000]

New Energy Technologies

Oklahoma Association of Conservation Districts – Creation of Oklahoma Carbon Incentive Program. The project will build a strong, voluntary marketplace in Oklahoma that will provide an economic incentive for agricultural and forestry producers to switch to practices that would have a significantly lower impact on the environment. An additional goal for the duration of the project will be to provide education to the general public in order to encourage individuals to invest in Oklahoma Carbon Credits. [\$308,262]

Oklahoma Renewable Energy Education

Oklahoma Offices of the Secretaries of Environment and Energy Revolution – Oklahoma Wind Energy Conference. To advance Oklahoma's wind potential by hosting Revolution: Oklahoma Wind Energy Conference to be held December 2009, in Oklahoma City at the Cox Convention Center. [\$150,000]

Oklahoma Development of Career and Technology Education – Oklahoma Wind Energy Training Initiative, Stillwater. OWETI will develop comprehensive wind turbine maintenance technician curricula, certification process and continuing education resources for secondary and postsecondary education institutions. [\$158,684]

High Plains Technology Center Renewable energy training – Create, develop and implement a certificate level comprehensive integrated renewable energy systems training program focused on career pathways. [\$1,200,000]

OREGON

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$ 42,182,000	\$31,991,000	75.84%

State ARRA Funded SEP Activities

Oregon’s strategy with SEP ARRA is to go beyond existing robust programs and explore innovative policy outcomes to impact customers and constituencies that have not been served traditionally by other energy-related programs. Additionally, Oregon’s strategy is to increase access and capacity to Oregonians by partnering with other public and private entities to leverage funding opportunities. Some examples of this are:

- Agriculture and water conservation projects partnering with Oregon Department of Agriculture
- Biomass boiler retrofits for Oregon Public Schools
- Geothermal projects in public buildings
- Solar demonstration with schools and public buildings
- Industrial systems and process retrofits
- Heating systems and woodstove replacements partnering with Oregon Environmental Quality
- Portland Community College geothermal project to contribute to a “net zero” campus

We believe these innovative approaches will result in successful projects that will be a focal point for Oregon’s SEP ARRA Program. In addition, Oregon’s SEP ARRA Program will produce significant energy savings with our more traditional energy efficiency and conservation retrofits in public buildings. In part, those savings have allowed Oregon to expand into these innovative approaches.

State Success Story – *ODOE Funds Renewable Energy Projects with ARRA Funds*

The Oregon Department of Energy (ODOE) has released approximately \$16 million in Recovery Act funds for 164 renewable energy projects 164 in the state. The projects funded include:

- 22 school projects [\$531,042]
- 21 Eastern Oregon projects [\$1,300,000]
- 97 Western Oregon projects [\$7,100,000]
- 6 large public entity projects [\$1,500,000]
- 18 renewable energy projects [\$6,000,000]

The latest round of awards were announced on December 17th for the eighteen (18) renewable energy projects listed in the following table.

OREGON

Facility	County	Project	Funds
Oakridge Elementary School	Lane	Pellet Boiler	\$224,898
Elkton Charter School	Douglas	Pellet Boiler	\$238,736
Days Creek Charter School	Douglas	Wood Chip Boiler	\$235,000
Estacada District Office	Clackamas	Wood Chip Boiler	\$627,738
Blue Mountain Hospital District	Grant	Pellet Boiler	\$40,000
Eastern Oregon University	Union	Biomass	\$190,000
Illinois Valley High School	Josephine	Pellet Boiler	\$283,700
Evergreen Elementary School	Josephine	Pellet Boiler	\$220,122
Milo McIver Pump Station	Clackamas	Solar	\$12,000
Grant County Historical Museum	Grant	Solar	\$21,642
Eastern Oregon Correction Institution	Umatilla	Solar	\$450,000
Joseph Fire Department	Wallowa	Solar	\$49,280
Joseph High Multi-Purpose Room	Wallowa	Solar	\$73,928
Enterprise School SW Parking	Wallowa	Solar	\$73,920
OSU – Cascades Campus	Hood River	Geothermal	\$560,491
Henley High School	Klamath	Geothermal	\$643,000
PSU – Science Building 2	Multnomah	Geothermal	\$1,000,000
Lakeview Geoheat Barry Well Site	Lake	Geothermal	\$1,000,000

PENNSYLVANIA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$99,684,000	\$82,283,116	82.54%

State ARRA Funded SEP Activities

Pennsylvania Green Energy Works Targeted Grants – [\$52,437,966.20]

Wind Projects –Grants will be awarded to large wind projects over 30 MW to support equipment and transmission interconnection expenses. [\$19,800,000]

Solar Projects –Grants will be awarded to large solar projects over 1 MW. [\$16,324,276.06]

Combined Heat and Power Projects– Grants will be awarded to support on-site CHP projects. This will facilitate the installation of 33 MW of installed CHP capacity. [\$11,313,690.14]

Biogas Projects– Grants will go to install bio-digesters that convert wastes from agriculture, food processing, and other processes into clean burning gas. Large farm and food processing digesters can generate between 150 and 500 kW each, so funding 10 projects would facilitate the installation of nearly 3 MW of installed biogas capacity. [\$5,000,000]

Pennsylvania Energy Development Authority Mined Project Grants – [\$3,771,000]

Bridge Business Center LP –to install an advanced energy system in a 30,000 sq. ft. laboratory renovation that will enable them to recycle waste heat from their operations and meet all of their own energy needs. [\$1,000,000]

Carlisle Syn Tech –to install an advanced 200 kW solar system on the roof. [\$65,000]

Sysco Food Services –to install solar and energy conservation measures into a 190,000 sq. ft. expansion of its distribution center and warehouse. [\$840,000]

Williamsport Hospital and Medical Center – to help install a 2 MW cogeneration system that will generate electricity and capture and reuse waste heat to provide heat and hot water for the hospital. [\$1,000,000]

Campus Square Partners –to install a 50.5 kW solar photovoltaic system on 70,000 sq. ft. building to help reduce energy costs and help the building qualify for silver LEED certification. [\$281,000]

Pennsylvania Energy Harvest Mined Project Grants – 15 grants to be awarded [\$6,363,881]

Sustainable Business Recovery – [\$10,000,000]

Grant funding for innovative, advanced energy projects, including projects involving the generation of energy; or the implementation of energy efficiency/demand side projects.

Green Development Loan and Grant Program – [\$12,000,000]

Statewide revolving loan fund that will provide clean energy and energy efficiency financing for a broad range of projects such as community facilities, schools and universities, hospitals, supermarkets in underserved communities, affordable housing developers, commercial real estate developers, manufacturers and government-owned facilities.

PENNSYLVANIA

Pennsylvania Geothermal Fund – [\$14,800,000]

A revolving loan fund to fund the incremental costs of geothermal equipment and installation to save up to 60% of the heating and cooling costs in new homes, schools, nonprofits, and local governments.

Administration – [\$311,152.80]

State Success Story –Recovery Act Funds Making State Leader in Solar Energy, Putting People to Work
Eight (8) large-scale solar projects in Pennsylvania that will create jobs while generating clean energy received a substantial boost from \$9,500,000 Recovery Act funding. The projects also accounts for more than double the four megawatts of capacity that Pennsylvania had just one year ago. The projects will employ 149 people, stimulate \$46,000,000 in private investments and, once completed, will generate enough electricity to power 1,200 homes annually.

RHODE ISLAND

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$23,960,000	\$17,662,680	73.72%

State ARRA Funded SEP Activities

Energy Efficient Transportation Initiative

The Rhode Island Office of Energy Resources (OER) proposes to issue up to 2 funding opportunities totaling \$1 million for utilities, state agencies, and municipalities to expand, extend and/or create cost effective transportation energy efficiency programs and projects for traffic signals, street lighting, and hybrid vehicle for public fleets.

Building Energy Code Upgrade, Training and Compliance Initiative

OER proposes to provide \$250,000 in SEP ARRA funds to the RI Building Code Commission to continue to work with state and local elected officials and other stakeholders including the local building inspectors, as well as planners, architects and members of the construction industry to achieve 90 percent compliance with a residential energy code or codes that meets or exceeds the most recent International Energy Conservation Code.

Commercial and Industrial Energy Efficiency Initiative

OER proposes to issue 2 RFPs for \$2,298,476.93 each to utilities and for-profit entities for programs to provide energy audits and targeted energy efficiency assistance to help small and large commercial and industrial (C & I) companies to lower their energy bills, to improve their bottom lines and to remain in business. The OER proposes to make up to 6 awards to sub grantees ranging from \$250,000 to \$1.5 million for programs and projects to assist small commercial and industrial companies; and to make up to 3 awards for \$750,000 to \$1.5 million for programs and projects to assist large commercial and industrial companies.

Green Public Buildings Initiative

OER proposes to build on the success of Rhode Island's experience with energy performance contracting in several large state buildings; capture increases in energy efficiency averaging 25.7%; and leverage federal resources with private funds and utility ratepayer incentives by expanding its performance contracting program in state buildings and facilities. The OER proposes to provide \$500,000 in SEP ARRA funds for a State Building Performance Contracting Project that would engage measurement and verification (M & V) consultants to help state agencies with the early steps of energy retrofits in state buildings and facilities.

Non-utility Scale Renewable Energy Loans, Grants Initiative

OER proposes to provide \$8,395,433 in SEP ARRA funds to the RI Economic Development Corporation (RIEDC or Corporation) to conduct solicitations for renewable energy installation projects. The Corporation will issue up to two (2) competitive funding opportunities for the development of renewable energy projects including:

RHODE ISLAND

Solar, PVSolar/Geothermal/WindSmall/hydropower/Biomass/biofuels. The following entities will be eligible to receive funds: any individual, sole proprietorship, partnership, corporation, association, governmental subdivision, or public or private organization of any character or a combination of the foregoing provided that the project is installed in the State of Rhode Island. Funding Amounts/Match Minimum total project funding will be \$100,000. The minimum match for ARRA funding is 50% (ie. \$50,000 ARRA funding and minimum of \$50,000 matching funds). Maximum ARRA funding will be \$2.5 million.

Residential Building Energy Efficiency Initiative

OER proposes to issue an RFP for \$2,298,476.93 to utilities, government entities, ESCOs, lending institutions, other for profit and not for profit entities for programs to help residents lower energy bills with one home visit; to expand, extend and/or create cost effective energy efficiency programs that would provide professional one stop comprehensive audits, seal critical leaks and drafts, replace incandescent bulbs with compact fluorescent lamps, provide/install water efficiency devices, check insulation and appliances. Loan values would range from \$1000 to \$10,000 per household. The OER anticipates up to 10 grants for between \$100,000 to \$500,000. Leveraged funds of \$5000 per retrofit, total \$7,500,000 may come from sources including but not limited to utilities, government agencies, homeowners, private contractors or lenders or non-profit entities as determined through the competitive solicitation.

Utility Scale Renewable Energy Initiative

OER propose to use \$5 million in SEP ARRA funding to expedite development of utility scale offshore wind projects by developing the site specific feasibility studies needed for permitting renewable power and utility-scale transmission and load balancing offshore projects. The SEP ARRA funding will leverage \$1.6 billion in private funds that will be used to construct a 1.3 mWh per year offshore wind project in two phases. Phase 1 will be completed in 2011 and phase 2 will be completed in 2014.

State Success Story – *State to Provide Grants to Encourage Renewable Energy Projects*

Rhode Island is in the process of awarding grants to residents, businesses and municipalities may apply for money to install renewable energy systems. \$8.4 million in grants are designed to help pay for up to 25 percent of the upfront costs of renewable energy projects, including solar, wind and hydro installations, as well as “any other proven and acceptable renewable energy programs.”

Rhode Island residents may apply for up to \$10,000. Businesses may apply for up to a total of \$500,000 for projects. Municipalities and institutions that serve or house 1,000 or more persons may apply for a maximum of \$750,000 for projects.

Applications for the first round of grants are due on Jan. 29 with applications for the second round due March 1.

SOUTH DAKOTA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$23,709,000	\$22,295,120	94.04%

State ARRA Funded SEP Activities

Energy Efficient Government Buildings – The state will award a limited number of grants to state institutions for up to 100% of the cost of energy audits and/or technical feasibility studies. [\$3,000,000]

ARRA Revolving Loan Fund – The state will award a limited number of loans (20 or more) to state institutions for up to 100% of the cost of commissioning, retro commissioning, technical energy analysis, or the cost of implementing energy savings projects that demonstrate a reasonable payback. [\$20,495,755]

State Success Story

The Capitol Lake Plaza Building is located in Pierre and was constructed in 1973. The scope of a planned remodel project includes a complete renovation with replacement of finishes, windows, heating, ventilating, air-conditioning (HVAC systems), electrical and life safety systems. We are pursuing United States Green Building Council Leadership in Energy and Environmental Design (LEED) Silver or Gold Rating for this project.

LEED is an internationally recognized green building certification system, providing third-party verification that a building was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts. The energy conservation components of the project are funded with American Recovery and Reinvestment Act (ARRA) funds. Energy conservation features being installed in the Capital Lake Plaza building include:

- On site electrical generation, using vertical axis wind turbines and photovoltaic solar collectors generate over 85,000 KWh per year.
- A 50% reduction in energy use with the on-site generation, ground source heat pumps, energy recovery systems and precise environmental controls.
- High efficiency lighting, daylight and occupancy sensors will cut the lighting bill in half.
- Shading windows from direct sunlight.
- Efficient ventilation systems that ensure a healthy environment and acceptable indoor air quality during and after construction.

TENNESSEE

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$62,482,000	\$62,482,000	100%

State ARRA Funded SEP Activities

Volunteer State Solar Initiative – Tennessee will use its SEP funds to establish the Volunteer State Solar Initiative, a comprehensive solar energy and economic development program, focusing on job creation, education, renewable power production, and technology commercialization. The initiative consists of two projects: The Tennessee Solar Institute at the University of Tennessee (UT) and Oak Ridge National Laboratory (ORNL), which will focus on industry partnerships to improve the affordability and efficiency of solar products; and the West Tennessee Solar Farm, a five-megawatt 20-acre power generation facility in Haywood County that will be one of the largest installations in the Southeast and serve as a demonstration tool for education and economic development.

The Tennessee Solar Institute – The Tennessee Solar Institute at UT and ORNL will be a center for excellence to spur accelerated growth in Tennessee’s burgeoning solar industry and serve as a crossroads for a wide-range of solar-related activities in the Volunteer State. The institute will bring together scientists, engineers and technical experts with business leaders, policymakers and industry workers to help speed the improvement and deployment of solar photovoltaic (PV) technology. Basic research activities will be conducted using state energy funds to be designated to UT and ORNL, outside of the Recovery Act. The institute will create a “Solar Opportunity Fund” to underwrite a series of new innovation and installation grants. Approximately \$23.5 million in grants will be distributed to solar-industry firms looking to strengthen or expand their operations as well as businesses looking to install solar-energy generation systems. [*\$23,500,000*]

The West Tennessee Solar Farm – Tennessee will use its Recovery Act funds to establish the West Tennessee Solar Farm, a five-megawatt solar array in Haywood County, Tennessee. The Solar Farm will serve as a demonstration site for educational purposes for the public and students to learn about the benefits of renewable energy. It also will be a showcase for a range of commercially available solar techniques and technologies. This program will be primarily administered by UT. Under a preliminary agreement, the federal Tennessee Valley Authority will purchase power generated by the Farm at a renewable energy price. The farm, to be located at a site along Interstate 40 near the Haywood County industrial megasite, will be Tennessee’s largest solar installation and one of the largest in the Southeast. Demonstrating the zero-carbon production of electricity on a highly visible and significant scale is expected to encourage future renewable-energy interest and investments.

TEXAS

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$218,782,000	\$215,400,000	98.45%

State ARRA Funded SEP Activities

Building Efficiency/Retrofit Program

The purpose of this program is to increase the energy efficiency of public sector buildings and other facilities statewide in order to create or retain jobs, reduce energy consumption, reduce greenhouse gas emissions, increase energy cost savings and install commercially-available renewable energy through a revolving loan program in order to meet the goals of SEP/ARRA. Eligible governmental entities may include units of state and local government, public schools, public colleges and universities, public hospitals and municipal utilities. [*\$137,800,000*]

Distributed Renewable Energy Technology Program

The purpose of this program is to increase the amount of installed renewable energy in Texas. Additionally, the purpose is to further develop Texas' renewable energy potential, assist in meeting the state's Renewable Portfolio Standard target of 10,000 megawatts by 2025 and advance the market for renewable technologies. This will be accomplished through a competitive grant process for governmental entities to install and demonstrate the effectiveness of commercially-available renewable energy technologies for electricity generation. Governmental entities may include units of state and local government, public schools, public colleges and universities, public hospitals and government-owned utilities. [*\$52,000,000*]

Energy Education and Outreach Program

An enhanced and focused outreach and education campaign to encourage renewable energy use and support energy efficiency efforts for all Texans will contribute to energy savings, emissions reductions, cost savings and job creation. [*\$5,000,000*]

Energy Sector Training Centers

This funding will specifically be used to award grants to eligible public junior colleges or public technical institutes (as defined in Section § 61.003 of the Education Code) for the purchase of equipment needed to train workers in the fields of energy and transportation efficiency, and in the renewable energy technologies sector. Eligible equipment may include HVAC simulators, LED lighting and training systems for energy efficiency instruction; conversion kits for electric or alternative fuel vehicles for transportation efficiency instruction; photovoltaic and thin film panels, wind turbines and the tools required to maintain wind turbines for renewable energy technology instruction. [*\$6,000,000*]

Transportation Efficiency Program

Public entities were be able to submit proposals through two projects - the Traffic Signal Project and the Alternative Fuels Project. Eligible entities are governmental entities and may include units of state and local government, public schools, public colleges and universities, public hospitals and government-owned utilities. Traffic Signal Project (\$6 million) Cities, counties and state entities would be eligible to submit proposals involving the synchronization of traffic signals through the installation, updating and/or maintenance of traffic synchronization technologies and/or the replacement of traffic signal lights with LEDs. Alternative Fuels Project (\$11 million) the purpose of this program is to provide for a competitive grants process to pay for incremental costs related to the purchase of alternative fuel vehicles and/or equipment necessary for the development of alternative fuel refueling stations for public entities. Eligible entities may include units of state and local government, public schools, public colleges and universities, public hospitals and governmental utilities. Alternative fuels include methanol, denatured ethanol, and other alcohols; mixtures containing 85% or more by volume of methanol, denatured ethanol, and other alcohols with gasoline or other fuels; natural gas; liquefied petroleum gas; hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (including neat biodiesel); electricity (including electricity from solar energy); and, 100% Biodiesel (B100). [*\$17,000,000*]

State Success Story

In the summer of 2009, the State of Texas, sought and received approval from the U.S. Department of Energy to use ARRA funds to launch a new revolving loan program. The Building Efficiency and Retrofit Program (BER) is capitalized with \$158 million provided to Texas through the State Energy Program.

Under the new BER the State will lend up to \$10 million per facility at 2 percent interest. Each project must pay for itself in 10 years or less (or 15 years for renewable energy projects) and an energy audit must be performed to ensure the proposed retrofits at facilities will achieve the energy cost savings to pay back the loans.

The first round for BER applications closed on December 30, 2009.

UTAH

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$35,362,000	\$ 17,618,156	49.82%

State ARRA Funded SEP Activities

- **Residential and Commercial Energy Training.** Estimated Annual Energy Savings: 424,078.36 MBtus. [*\$750,000*]
- **Advanced Energy Efficiency Strategies for Buildings.** Estimated Annual Energy Savings: 35,000.00 MBtus. The program creates a best-practices formula to drive energy efficiency throughout the building sector and provides base-lining in state-owned buildings through the use of Energy Star Portfolio Manager. [*\$1,500,000*]
- **Whole Home Audit Program.** Estimated Annual Energy Savings: 10,000.00 MBtus. [*\$3,000,000*]
- **Builder Rebates for High Performance Home Building.** Estimated Annual Energy Savings: 21,075.00 MBtus. This program will provide homebuilders with a rebate for high-performance construction, and will entice builders to strive for aggressive energy efficiency standard in the homes that they build. [*\$3,000,000*]
- **Direct Installation Insulation Program.** Estimated Annual Energy Savings: 2,500.00 MBtus. [*\$1,500,000*]
- **Energy Efficiency in State Buildings.** Estimated Annual Energy Savings: 206,000.00 MBtus. Within this program, the funds would be used in three ways, including: \$1.5 million for a revolving loan fund, \$400,000 for professional energy modeling, and the balance of fund for 5-10% incentive grants to initiate Performance Contracting. [*\$6,000,000*]
- **Energy Efficiency Grants for Public Schools.** Estimated Annual Energy Savings: 86,087.15 MBtus. The program will provide Utah schools with financial assistance for implementing energy efficiency measures. Utah SEP may provide up to 50% of the project cost in grants, with the other 50% from either the Utah SEP Public School Revolving Loan Fund, or it through other funding. [*\$2,500,000*]
- **Utah SEP Public School Revolving Loan Fund.** Funds will be added to the Utah revolving loan fund for schools, which enables them to implement energy efficiency projects. [*\$2,500,000*]
- **Competitive Grants for Energy Efficiency in the Building Sector.** The program would be open to the public and would provide funding for highly innovative energy efficiency projects that fall within the scope of ARRA goals, but that do not fall under any of the more specific Utah SEP ARRA programs. [*\$632,544*]

- **Renewable Energy Grants for State-owned Buildings.** Estimated Annual Energy Savings: 11,608.67 MBtus. [*\$4,000,000*]
- **Renewable Energy Grants for Public Schools and Institutions.** Estimated Annual Energy Savings: 8,706.50 MBtus.[*\$3,000,000*]
- **Renewable Energy Rebate Program.** Estimated Annual Energy Savings: 8,706.50 MBtus. The program would provide rebates for the installation of small-scale renewable energy projects. [*\$3,000,000*]

State Success Story

The Utah State Energy Program (USEP) in partnership with the Utah Division of Facilities and Construction awarded \$10 million dollars in ARRA grants and loans to multiple state agencies and higher education institutions for advanced energy modeling, energy efficiency retrofits and renewable energy projects. USEP expects to leverage \$60 million dollars with the grant monies. The funds are projected to create up to 66 jobs over the funding period, with potentially more positions from the leveraged dollars.

VERMONT

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State ARRA Funded SEP Activities

Funds will expand the size and scope of the Vermont Clean Energy Development Fund (CEDF). State program development and implementation is now underway in the following areas.

Renewable Energy Grant and Loan Programs – ARRA SEP funding will create additional grant and loan funding opportunities for small- and large-scale renewable energy projects through the Clean Energy Development Fund. Funding opportunity announcements for grants and loan programs administered directly by the Fund will be posted through the Fund's site. Other supported renewable energy activities include:

- The Vermont Small-Scale Renewable Energy Incentive Program, which provides incentive payments for grid connected and net metered solar photovoltaic and wind systems, solar hot water systems, and small-scale hydropower systems.
- Planned support for loans from independent lenders for small-scale renewable energy projects.
- A Wind Mapping and Anemometry Loan Program. Requests for proposals will be issued in December 2009, with proposals due in January 2010.

Public Serving Institutions Efficiency & Renewables – The CEDF will offer a competitive program for public-serving institutions (government buildings, nonprofit public and private universities, colleges, and hospitals) to implement energy efficiency measures and renewable generation. \$2,000,000 in funding will be available through this program. A request for proposals will be issued in January 2010, and proposals will be due in March 2010.

State Success Story

The Vermont SEP program is focused primarily on renewable energy projects. The SEO ARRA funds are being used to enrich and expand existing program such as the Vermont small scale renewable energy incentives program, the Vermont Clean Energy Development Fund (VCEDF) to provide grants and loans for renewable energy projects such as solar photovoltaic, wind turbines, methane digesters (cow power), and other biomass. Estimates are that this money will encourage \$150,000,000 of total expenditure on renewable energy projects which will produce 3 million megawatt hours of electricity in the next twenty years at rates comparable to today's cost of power generated from natural gas. Using renewables instead of natural gas to generate this electricity will prevent the release of an estimated 860 million pounds of CO₂.

VIRGINIA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$70,001,000	\$54,000,000	77.14%

State ARRA Funded SEP Activities

Virginia has awarded grants in the following categories:

- *Grants for solar and small-scale wind-power systems installed at state government facilities – [\$13,000,000]*
- *Grants for solar and small-scale wind-power systems installed at local government facilities, including public schools. A portion of these funds are being made available from Energy Efficiency and Conservation Block Grant program funding. [\$10,000,000]*
- *Rebate Program for residential, commercial, and non-profit renewable energy installations (solar and small-wind systems). [\$15,000,000]*
- *Rebate Program for owners of residential and commercial property in Virginia for energy-efficiency improvements. Residential upgrades that might be eligible once final program rules are developed, include new heating and cooling systems, windows, lighting, and programmable thermostats. [\$15,000,000]*
- *Grants for biomass-to-energy and waste-to-energy projects at water treatment plants, landfill facilities, state power plants, and other installations. [\$10,000,000]*
- *Business development and commercialization of clean-energy technologies. Economic development incentive and commercialization funds to help develop clean energy businesses and grow manufacturers to create employment opportunities within the Commonwealth. [\$10,000,000]*

The Biomass Energy Grant Program

Has awarded \$10,000,000 for the engineering and design, installation, and commercialization of qualifying biomass or waste-to-energy technologies for 15 biomass and waste-to-energy projects. These grants to commercial, industrial, and institutional entities will support \$110,000,000 in private investments statewide.

State Facility Renewable Energy Utilization Program

This initiative, when implemented, is intended to allow Virginia agencies to lead by example and to utilize solar and wind energy at their facilities. Grants will be awarded based on criteria including but not limited to recipient matching share, geographic distribution, energy savings, educational potential and other factors.

VIRGINIA

Local Government and Public School Renewable Energy Utilization Program

This initiative, when implemented, is intended to allow local government agencies to gain experience and exposure to solar and wind power technologies at their facilities. Projects under this initiative will be ranked with similar criteria to state facilities, with an increased level of emphasis on systems located at schools and coupled with renewable curriculum.

Economic Development Programs

Virginia proposes to use \$10,000,000 for economic development programs to develop clean energy business and industry. The Commonwealth plans to allocate this money within three programs that range from traditional business support to innovative equity investment instruments derived from venture capital models. All of these programs are expected to highly leverage federal dollars with investments from non-federal sources. Some programs will also generate program revenue to sustain the infrastructure-building efforts after federal funds no longer are available for this purpose.

WASHINGTON

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$ 60,944,000	\$ 44,444,000	72.93%

State ARRA Funded SEP Activities

Energy Efficiency & Renewable Energy Loan & Grant Program – Late last year, Commerce completed an extensive review of over 100 applications Energy Efficiency & Renewable Energy Loan & Grant Program. Requests totaled \$200 million; 10 times the amount of available funding. A total of 19 projects that meet ARRA’s energy and job creation goals were selected. In February 2010, the office received 48 submittals for the second round of competitive funding. ***Entities from across the state requested a total of \$59,088,770, about 3 times the available funding.*** Requests included \$24,666,793 in loans and \$34,421,978 in grants.

Community-Wide Urban Residential and Commercial Energy Efficiency Pilot Program –Administered by the Washington State University (WSU) Extension Energy Program, eight private and public projects across the state were selected to receive approximately \$14 million in ARRA grants. Contracts have been signed and all projects are moving forward. For a description of each project, visit www.energy.wsu.edu and click on the Community Energy Efficiency Pilot Grant link.

Energy Efficiency Credit Enhancement – Commerce completed a successful application round and awarded grants totaling \$4.96 million to six applicants, including Avista Utilities, City of Bellingham, Washington State Housing Finance Commission, City of Seattle, Sustainable Works, and Thurston County Economic Development Council. The awards are expected to support approximately \$50 million in total project expenditures, including lender funds, tax credits, utility incentives, other community funds, and borrower investments. The projects will create energy efficiency retrofits in both residential and commercial buildings. We expect to have contracts negotiated and executed by March 2010.

Energy Efficiency in Northwest Agriculture – WSU Extension Energy Program, in partnership with the Washington State Department of Agriculture, Washington Conservation Commission, and the Washington State Dairy Federation, is working with dairy and dryland farmers to comprehensively assess their energy use, and develop practical conservation and efficiency measures. This \$500,000 innovative approach examines cropping systems, irrigation and fuel and fertilizer usage.

WEST VIRGINIA

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$32,746,000	\$32,746,000	100%

State ARRA Funded SEP Activities

W.Va.'s SEP/ARRA-funded program includes a range of energy efficiency measures including lighting, HVAC and window upgrades at 76 state-owned buildings across West Virginia.

Energy Efficiency in State Buildings: Health and Human Resources – [\$5,000,000]

The program will support energy efficiency projects identified at W.Va. Department of Health and Human Resources (DHHR) facilities, including long-term care facilities, acute care hospital facilities, acute care psychiatric hospitals and a public health laboratory.

Energy Efficiency in State Buildings: Administration – [\$5,002,035]

The program will support energy efficiency projects identified at state-owned office buildings. Using the expertise of on-staff engineers and architects, the West Virginia Department of Administration - which is responsible for the operation and maintenance of these buildings - developed a list of three projects (lighting fixture upgrades, window replacements and exterior lighting upgrades).

Energy Efficiency in State Buildings: Corrections – [\$7,194,880]

The program will support energy efficiency projects identified at state correctional institutions. Using the expertise of a performance contractor, the West Virginia Division of Corrections has developed a list of projects at three facilities - Huttonsville, Mt. Olive and Pruntytown. One of the major goals of this effort is to upgrade facility mechanical and electrical infrastructure to increase systems' reliability and reduce life-cycle costs.

Energy Efficiency in State Buildings: Higher Education – [\$9,493,598]

The program will support energy efficiency projects identified at institutions of higher learning. The West Virginia Higher Education Policy Commission has developed a list of 26 projects including HVAC and electrical upgrades.

Energy Efficiency in State Buildings: K-12 Education – [\$3,317,859]

The program will replace or renovate inefficient HVAC systems, replace lighting and windows at four schools. The program also will support the installation of a geothermal HVAC system at Spring Mills Primary, a new, 59,302-square-foot LEED K-2 school under development in Berkeley County.

Energy Efficiency in State Buildings: W.Va. Army National Guard – [\$1,166,525]

The program will support lighting system replacements at state 11 Army National Guard armories.

WEST VIRGINIA

West Virginia Green-collar Job Training Program – [\$1,000,000]

The Program will establish and implement green-collar job training curricula and certification programs in West Virginia. Categories will include:

- Solar: Train and certify technicians to assess site suitability, install and maintain grid-connected and off-grid solar systems.
- Wind (commercial and residential): Train and certify technicians to install and maintain wind turbines.
- Building Energy Performance: Train and certify technicians to assess residential and commercial building energy use, before and after energy retrofitting. Train and certify technicians to install energy-saving measures, e.g. windows, doors, insulation, HVAC system efficiency measures.
- Energy codes: Participants (contractors, code officials, engineers, architects, building owners and operators) will learn requirements of the most recently published energy code from the International Code Council, currently the 2009 International Energy Conservation Code. The course will enable participants to apply energy codes to new construction and market buildings as energy efficient.

Energy Efficiency in State Buildings: W.Va. Department of Agriculture – [\$250,000]

Program will support lighting and HVAC projects at 14 buildings, reducing taxpayers' costs for government operations.

State Success Story

The SEP/ARRA-funded West Virginia Green-collar Job Training Program provides \$1 million to the state's Community and Technical College System to develop curriculum in four key energy areas: wind, solar, building performance and energy codes. West Virginia has 330MW of wind power in operation with another 595MW permitted.

More than 200 people packed a seminar introducing the new SEP/ARRA-funded Wind Energy Turbine Technology training program at Eastern West Virginia Community and Technical College, located in the Potomac Highlands region of the state. According to the Moorefield, W.Va., News-Tribune, "College officials had expected about 100 people to attend the informational program at the South Branch Inn in Moorefield. The final count was 233."

"We were just blown away," said Ward Malcolm, who is designing the new instructional program at Eastern Tech. "We ran out of chairs."

WISCONSIN

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$55,488,000	\$15,600,000	28.11%

State ARRA Funded SEP Activities

Clean Energy Revolving Loan Fund – The Office of Energy Independence has established a revolving loan fund into which repayments of principal and interest for loan awards (made at 2% or 3%) made as part of some of the State Energy Program grants and loans (see below). The funds repaid would then be used for future clean energy projects in the state.

Job Creation and Retention through Clean Energy Supply Chain Development – Wisconsin will invest in advanced manufacturing of clean energy components and assist companies in retooling to provide component parts and other critical needs for a successful, totally integrated supply chain for wind turbines, solar PV and water heating equipment, renewable fuel production equipment, digester equipment, diesel idling reduction equipment, advanced energy efficient lighting products, energy efficiency equipment and products.

Job Creation and Retention through Clean Energy Technology – Wisconsin will invest in businesses that will create or retain significant numbers of jobs in businesses that manufacture clean energy products (for example wind, solar, biofuels, and advanced electrical storage systems) or otherwise help reduce the consumption of fossil fuels. All funds will be distributed through a revolving loan fund.

Job Creation and Retention through Industrial Facilities Reduction of Fossil Fuel Use – This initiative will incentivize efficiency investments for companies not otherwise served by utility efficiency programs in these targeted industries: Advanced Energy and Environmental Technologies; Agriculture and Food Processing; Bioscience and Bio-products; Refrigerated Warehousing and Distribution; Instruments, Controls, and Electronics; Motor Vehicle, Small Engine and Parts Manufacturing; and Polymers, Composites and Advanced Materials.

State Success Story

The state has awarded five companies \$4,125,000 to help invest in manufacturing equipment and create 316 new green jobs. The five are:

Helios USA – The Milwaukee start-up is a manufacturer that will produce solar panels for residential and commercial applications. It is leasing 40,000 sq. ft. in an existing facility and will invest more than \$8,000,000 for equipment and working capital. Helios expects to create 54 new clean energy jobs.

[*\$1,000,000*]

WISCONSIN

Nature Tech, LLC – The company is a Milwaukee start-up manufacturer of energy efficient cellulose insulation manufactured from recycled newsprint. It is leasing a vacant facility and will invest more than \$3,000,000 in the project. The company plans to create 47 new clean energy jobs. [*\$800,000*]

ZBB Energy Corporation – ZBB of Menomonee Falls is investing \$4,500,000 million in equipment and working capital to expand its advanced battery products manufacturing. The company will retain 26 jobs and plans to create 175 additional jobs. [*\$1,300,000*]

Renewegy, LLC – The funds will help the company purchase new manufacturing equipment and create 40 new green jobs. [*\$525,000*]

Cardinal Glass – funds were used to upgrade photovoltaic production capacity at the company's facility in Portage. [*\$500,000*]

WYOMING

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Total SEP ARRA Funding	Total Obligated or Awarded	Total % Obligated or Awarded
\$24,941,000	\$20,900,000	83.80%

State ARRA Funded SEP Activities

Facility Program – A grant program to promote a pre-selected set of energy efficiency upgrades for public, Tribal entities, non profit and joint powers boards owned facilities. Specifically, the grants would only be used to improve building components such as: 1) attic/ceiling improvements; 2) the sealing of cracks and/or insulation of foundations; 3) upgrading of interior lighting; 4) insulation and sealing of HVAC ductwork; 5) replacement of boilers/furnaces; 6) installation of on demand water heaters and 7) measures to improve the efficiency of HVAC systems including replacement. These seven improvement areas are high value projects because they provide significant energy savings. [*\$18,900,000*]

Residential Photovoltaic Program – An expansion of the Residential Photovoltaic program to include other renewable energy sources such as wind and geothermal heat pumps. Further, the program is amended to be based on a per kW credit which promotes both residential and commercial adoption. These programs are expected to employ more than 20 contractors to install renewable energy equipment around the state. This program leverages tax credits available to consumers bringing the average cost of an installed system down from \$20,000 to \$10,000. [*\$2,560,000*]

Expanded Weatherization Program – An expansion of the weatherization program to households with income levels of up to 250% of the poverty level, or approximately \$65,000/year for a family of four. Leveraging the infrastructure and reporting systems being developed to deploy more weatherization contractors. Program seeks 1% participation or approximately 480 homes. [*\$3,480,000*]

State Success Story

The Wyoming Residential Renewable program was popular beyond expectation as evidenced by the fact that applications were opened on December 1, 2009 and by December 10, 2009 100% of the \$2.2 million for the program was allocated. This program provides reimbursement for a portion of installation of small wind, photovoltaic and ground source heat system (up to \$10,000 or 50% of project cost, whichever is less). Over 300 grants are in process. Through those grants, it is estimated that nearly 800 kWh of power will be installed. The first residential installation occurred on February 8th at a residence outside of Wheatland, Wyoming allowing the home owner to generate, year round, nearly 100% of all power needed for his home.