



American Recovery and Reinvestment Act New Hampshire State Energy Program – Summary Proposals

Updated June 19, 2009

Overview: The American Recovery and Reinvestment Act (ARRA) allocated \$25.8M to the State of New Hampshire for State Energy Programs, to be managed by the Office of Energy and Planning (OEP). OEP submitted a comprehensive distribution plan to the US Department of Energy (DOE), and additional descriptions on May 29 and June 17, 2009. OEP is awaiting approval of the plan, which may not be forthcoming until mid to late summer of 2009. Funding amounts are to be expended over three years, and all funds must be expended by April 30, 2012. The following summaries describe the proposals made to DOE for use of the funds. As more information is developed, OEP will supplement the website and can include anyone interested on an [email listserv](#).

OEP will issue Requests for Proposals (RFP) in the coming months for administration of many of the programs listed below; however no RFP will be awarded until OEP receives approval of its plan from DOE. All RFPs for State Energy Programs funded by ARRA will be posted at www.nh.gov/recovery and www.nh.gov/oep. OEP will also make every effort to post other energy-related programs and projects funded by ARRA.

OEP will impose stringent reporting requirements on all awardees, including timely expenditure of the funds, calculation of job creation and retention, energy savings, emissions reductions, and environmental impact statements, where appropriate. Compliance with all ARRA requirements – Davis-Bacon wage rates; Buy American, Environmental Protection, and Historic Preservation Provisions, will be emphasized in the RFPs. Those who do not meet the guidelines or who prove incapable of expending funds in a timely manner will be required to return the funds to OEP for redistribution.

The following proposed programs are listed alphabetically.

1. Building Code Compliance

Request for Proposals – to come

The NH State Building Code Review Board has initiated the process for adopting the 2009 International Energy Conservation Code. The goal for this program is to develop a plan to train and mobilize building professionals to achieve 90% enforcement of the 2009 International Energy Conservation Code within 8 years. Better-trained design professionals, building contractors, and building inspectors/code officials will incorporate energy code into construction work. Additionally, by educating homeowners, landlords, and commercial property owners about the benefits of improved building energy performance, best practices, and enforcement policies for all construction, the energy performance bar will be raised and compliance will be achieved.

OEP recognizes that improving compliance of building codes, energy conservation codes in particular, will require buy-in from all members of the community. In 55 of New Hampshire's municipalities, the fire department handles building code enforcement, and life-safety issues have been their priority. Raising awareness within the communities about the importance of energy code will increase the level of expectation of compliance from the owners of the buildings. This public awareness milestone is important in attaining 90% compliance of the 2009 IECC by 2017. Building owners need to value and understand this component to the code.

OEP and its subcontracted partner, as well as other relevant partners such as the NH Public Utilities Commission and Northeast Energy Efficiency Partnership, will create a road map to compliance enforcement and monitoring. OEP recently reviewed a draft set of tools being developed by DOE to help states through this process. OEP expects to make use of such tools.

Northern New England faces regional building-performance challenges that would that will be well served by stronger certification standards. Efforts on this part of the grant will be pursued once the 2009 IECC roadmap to compliance is secure.

To be awarded: \$600,000.00

Overall Program Total: \$674,147.33

For more information on this program, [contact Laura Richardson.](#)

2. Business and Commercial EE/RE Loan/Grant Program

Request for Proposals – to come

Many of New Hampshire's businesses, commercial enterprises, institutions and nonprofits operate in inefficient buildings, and use more energy for heating and electricity than is optimal. These businesses and institutions seek to reduce their energy use and cost through a variety of measures, including more energy efficient processes. Employers need to reduce costs wherever possible, but to make the investment in energy efficiency to save jobs and enterprises, financial and technical assistance is needed. This program will distribute loan and grant funds through a partnering agency selected through a formal RFP, which will then be targeted to large enterprises seeking to make their buildings and/or industrial processes more energy efficient. Funds may also be used for onsite renewable energy generation.

The primary goal of this program is to reduce energy usage and emissions, save money, and create and retain jobs by installing EE and RE products or technologies in business and commercial facilities. OEP has received many inquiries about this program.

OEP will subcontract administration of the loan/grant program. OEP is coordinating a Request for Information meeting to discuss the overview of ARRA-SEP, this particular program, and the Small Business EE/RE Loan/Grant Program, and solicit advice from lending and granting professionals regarding feasibility of award sizes, grants versus loans, revolving loans, recommended eligibility requirements, breakdowns of EE versus RE projects, and how they recommend the program to be delivered. The administrator will be chosen through a competitive RFP process. We anticipate that funds will be granted on a first-come, first served basis.

OEP will create a scorecard to evaluate the proposals submitted in response to the RFPs to determine which entity will administer this program. The administrator, working with OEP, will determine evaluation criteria for who receives the funding for the EE upgrades or RE systems. The program will be evaluated and monitored throughout the program for energy saved, emissions reduced, and jobs created. These criteria will be developed by OEP and the administrator prior to the start of the program. Energy efficiency upgrade proposals will include energy use data, commissioning, and agreements for follow-up data monitoring. Details on this part of the program will be determined in the coming months as OEP and its subcontracted partner ramp up the program.

As stated in OEP's Comprehensive Application of May 12, 2009, OEP does not anticipate these programs or projects to negatively affect the environment. However, if any of the proposed projects potentially impact the environment, a DOE EF1 will be submitted. In each Request for Proposals or Memoranda of Agreement, OEP will include statements about NEPA compliance and reporting. Similarly, Davis Bacon, Historic Preservation, Buy American, reporting requirements, and other important factors will be included in the RFPs.

OEP anticipates partnering with the subcontracted administrator of this program to promote these funding opportunities and the importance of energy efficiency, conservation, and renewable energy as a means to save energy, reduce emissions, and create jobs. The program will be promoted through existing OEP events such as conferences and speaking engagements.

To Be Awarded: \$2,500,000.00

Overall Program Total: \$2,534,893.09

For more information on this program, [contact Laura Richardson.](#)

3. Community College System of New Hampshire EE/RE Building Projects

Memorandum of Agreement with CCSNH

The Community College System of New Hampshire (CCSNH) consists of seven independent colleges on 13 campuses throughout the state. Ten percent of state owned buildings are on these campuses. A grant to the Community College System of New Hampshire will improve the energy efficiency of targeted buildings reducing energy use and generating clean energy. These upgrades and investments will showcase the technologies to the communities where they are based, and provide a learning opportunity for students.

The primary goal for this program is to expand energy efficiency projects at the Community College System. These projects will save energy, save money and emissions, while creating and retaining jobs at the campuses as well as in private companies undertaking the upgrades.

Of the total program, \$1.3M will be granted to the Community College System of New Hampshire. Working with OEP's guidance, CCSNH will determine the highest priority projects that meet the goals of the program. The CCSNH Director of Capital Projects and Capital Planning is now prioritizing projects based on geographic location, cost, maximum impact, and need in order to determine which campuses and projects will receive funding. The final list can be submitted once complete.

The CCSNH is part of the State system; this funding will be provided directly from OEP to the CCSNH for these upgrades. CCSNH is looking at each of its campuses for the most appropriate projects for this funding. OEP will monitor the projects in the field and through phone and email correspondence.

Under Governor John Lynch's Executive Order 2005-4, Lead by Example in Energy Efficiency, the Department of Administrative Services tracks State of NH energy usage and reports quarterly. This reporting system will serve the ARRA-funded projects, as departments and agencies will record and monitor energy and cost savings.

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Press releases and signage about ARRA-funded projects will be consistently used for all programs and projects, including those at the CCSNH facilities. Furthermore, OEP will be incorporating these energy saving success stories into the presentations OEP staff regularly are asked to perform. Expected energy savings will also be promoted to the media, students, faculty, staff, and communities through websites, media, and ribbon-cutting ceremonies.

The CCSNH Director for Capital Projects and Capital Planning has been meeting with vendors of possible RE systems. However, he has determined that energy efficiency projects meet the goals of the program and the needs of the System and are "shovel ready." The College System is considering photovoltaics, biomass, wind, and green/living roofs for its many campuses, but because of the challenges of time and the engineering, the College System will be focusing on the most pressing needs that result in immediate energy savings.

To Be Awarded: \$1,300,000.00

Overall Program Total: \$1,311,018.18

For more information on this program, [contact Laura Richardson](#).

4. Expanded Alternative Fueled Vehicle/Rideshare

Memorandum of Agreement with the Department of Environmental Services

This expansion of the New Hampshire alternative fuels transportation program will allow for the purchase of hybrid and CNG vehicles by funding the incremental cost of alternative fueled vehicles or the cost of a vehicle retrofit. It will promote:

1. The adoption of alternative fueled and hybrid vehicles within state government, municipal and private fleets.
2. Carpooling, park and ride, telecommuting, and other transportation alternatives

The goal of the expanded Alternative Fuels Vehicle Program is to increase the number of hybrid and alternative fueled vehicles in the State fleet. This will be done in part by granting funds to State agencies for the incremental cost of such vehicles based on need, as well as by a marketing effort for AFV both within and outside of state government. Should State agencies fail to utilize all of the available funds (for example due to budget constraints), the program will grant funds to municipal and then private fleets until funds are exhausted.

New Hampshire has joined three other northern New England states in a separate Clean Cities application to DOE, which if funded would provide for a much-needed upgrade of an existing compressed natural gas (CNG) station in downtown Concord, NH. Should the grant be funded, Recovery Act SEP funds for AFV will be used for retrofitting vehicles in the state fleet to use CNG. If the grant is not funded, incremental costs of purchasing electric hybrids, propane vehicles, or other alternative fueled vehicles will be pursued instead.

Technical assistance will be provided to those state agencies that express an interest in purchasing alternative fueled vehicles, including training on how to use, refuel and maintain the vehicles. Such assistance will also be provided to municipal fleet and private sector companies interested in CNG and other alternative fuels. To that end, marketing materials will be developed on the benefits of each alternative fuel type vehicles (hybrid electric, CNG, propane, and others). Dissemination of information and marketing materials will be made under the program in at least ten instances, including on the State's intranet, through newsletters, workshops, trainings, and other venues. The goal of such outreach is to increase understanding, acceptance and ultimately adoption of alternatives to gasoline and diesel powered vehicles both within State government as well as in the municipal and private sectors.

Preliminary estimates developed by NH OEP in consultation with Clean Cities staff from the NH Department of Environmental Services are that incremental costs for two bucket trucks, eight light-duty vehicles, and three heavy duty trucks can be covered with Recovery Act funds requested for the Expanded AFV Program.

To Be Awarded: \$400,000.00

Overall Program Total: \$414,663.74

For more information on this program, [contact Mary Downes](#).

5. Expanded Business Energy Efficiency Program

Memorandum of Agreement with the Department of Resources and Economic Development

The goal of the expanded Business Energy Efficiency Program run by the Department of Resources and Economic Development (DRED) in conjunction with a private-sector energy auditor is to improve energy efficiency and reduce the emissions of NH-based companies, to spur investment in energy efficiency and renewable energy, which will in turn stimulate the creation and retention of jobs in the energy services sector. This is an expansion of an existing and successful SEP-funded program, which has also recently won funding from the State's new Greenhouse Gas Emissions Reduction Fund (funded by proceeds from Regional Greenhouse Gas Initiative auctions).

Objectives for this program under Recovery Act funding include:

1. Provide comprehensive energy audits free of charge to NH-based commercial and industrial companies that are in a position to invest in energy efficiency improvements to their facilities and processes. Selection of companies to receive the free audits is based on criteria determined by DRED in consultation with an experienced energy-consulting firm under contract with DRED to perform the audits.
2. Provide additional special project oversight to companies receiving audits, relating to buildings, manufacturing processes, procurement of materials and equipment, and the securing of financing to carry out the recommendations of the comprehensive audits.
3. Provide technical assistance for 200 additional companies relating to energy audits and energy efficiency, as well as improve and maintain DRED's Business Resource Center website. This will provide both New Hampshire businesses and those considering relocating to the state a reliable first source of information about energy efficiency and renewable energy for commercial, manufacturing and industrial buildings, as well as a reference for energy financing options and opportunities, and technical assistance.
4. Organize and/or promote energy efficiency workshops to business and industry groups as well as manage a training contract with Lakes Region Community College, one of the state's leading training programs for energy professionals. Leveraged funding for this aspect of the BEEP program was

announced on June 12, 2009 by the State's Public Utilities Commission, which manages proceeds from Regional Greenhouse Gas Initiative carbon auctions. Final approval of this grant is anticipated for July 2009.

[BEEP leveraged \$172,000 for 2 years from GHGERF]

To Be Awarded: \$750,000.00

Overall Program Total: \$786,409.09

For more information on this program, [contact Mary Downes](#).

6. Expanded Procurement Standards

Memorandum of Agreement with the Department of Administrative Services

Activity on procurement standards is a requirement of SEP funding due to the cost effectiveness of such policies and the potential for achieving significant energy savings. NH Executive Order 2005-04 requires state agencies to purchase Energy Star office equipment, and compliance with this policy by state agencies is generally satisfactory but could be improved. The goals of the expanded Procurement Standards Program are to a) continue to enforce and expand state agency compliance, with a focus on the Community College System; and b) begin to assess the impact of new outdoor energy efficiency lighting legislation (HB 585). This law, passed in the current legislative session, requires that energy-efficient, fully-shielded outdoor lighting be used by the State, where cost effective, when replacing existing luminaries on public roadways, parking lots and the like.

These goals will be accomplished through the following activities:

1. Outreach and education to administrative staff responsible for procurement in State agencies to promote Energy Star and encourage full compliance with the existing policy.
2. Outreach and education to staff within the Community College System, to make them aware of the policy, to promote full compliance, and to establish an annual reporting procedure on Energy Star purchases.
3. Establishment of a process to assess the impact of HB 585, including tracking how many lights are replaced, and estimating the cost savings to the State. NH OEP will work with legislative sponsors as well as the Department of Transportation and the electric utilities on this effort.

To Be Awarded: \$0.00

Overall Program Total: \$9,967.49

For more information on this program, [contact Mary Downes](#).

7. Expanded Renewable Energy Program

Request for Proposals

New Hampshire has significant renewable energy resources, opportunities and existing renewable generation capacity that have not been adequately quantified. The goal of this program is to develop and begin to implement processes for capturing data related to a variety of renewable energy sources, and based on these findings, to promote the expansion of renewable energy generation in all sectors. Funding will allow a new rebate program for solar hot water and/or biomass heating systems to be administered by the NH Public Utilities Commission, supplementing its existing program to provide incentives for renewable energy.

OEP continues to develop this program, collaborating with the Public Utilities Commission, administrator of the new funding sources concurrently coming on line at the state: the Regional Greenhouse Gas Emissions Reduction Fund and the Renewable Energy Fund. This ARRA-SEP funding targets incenting thermal renewable energy technologies that are critical to New Hampshire's renewable energy market transformation and economy. OEP is carefully balancing the technologies, consumer demand, existing market penetration, and available funding. OEP recognizes that both solar hot water and high efficiency biomass heating systems will create local jobs, reduce importation of fuels, and reduce emissions from fossil fuels.

OEP continues to develop this program. It has not yet been determined if this program will incent solar hot water systems and/or high-efficiency central biomass heating systems. This decision hinges on other incentive programs being designed by the Public Utilities Commission. Determining the size of the grants will be done in conjunction with other criteria and decisions. Once the decisions have been made by the PUC, we can supplement this filing.

OEP continues to develop this program. At this time, we still need to determine what sectors this program will target: residential, business, commercial and industrial, or non-profit. This decision hinges on other incentive programs being designed by the Public Utilities Commission, which OEP will determine in autumn 2009.

OEP anticipates entering into a Memoranda of Understanding with the NH Public Utilities Commission to administer this program, as it has recently developed the infrastructure to administer both the Renewable Energy Fund and the Greenhouse Gas Emissions Reduction Fund. OEP and the PUC anticipate developing an application process similar to those processes nearing implementation at the PUC. Incentives will be awarded on a first-come first-served basis.

Applicants seeking financial incentives for the approved system must submit a complete application to the Public Utilities Commission, which will be reviewed by the PUC to ensure all requirements of the application are met. The program will be designed to ensure that energy savings and emissions reductions are prioritized.

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Through the new financial incentive program being administered through the Public Utilities Commission and starting in July 2009, information provided on the application will be available to OEP. Data will now be available to the State regarding distributed renewable energy capacity, system installations, and to some degree performance of these systems. OEP will work with the Public Utilities Commission and the regulated utilities to consolidate information about residential and commercial RE systems and the energy they generate. With this baseline information, the PUC and OEP will be able to create additional data collection, management, and analysis processes for renewable energy.

OEP anticipates partnering with another entity through a competitive RFP to provide outreach and education materials about renewable energy. As a young and growing marketplace, these technologies are unfamiliar to consumers, who seek to be educated regarding the technologies, the vendors, the funding sources, and other needs. OEP handles some of these issues currently, but anticipates the need to expand as the market grows, and as such will rely on a partnership to disseminate this information.

OEP receives requests for information from homeowners, business owners, policy makers, and many others about renewable energy technologies, vendors, and feasibility. OEP anticipates additional requests, via telephone, email, and in person. Furthermore, OEP staff often makes presentations to the general public, policy makers, business and industry groups, about relevant topics. OEP staff will incorporate these topics into conferences, seminars, workshops, media opportunities, and other outreach opportunities.

To Be Awarded: \$500,000

Total: \$580,921.17

For more information on this program, [contact Laura Richardson](#)

8. Feasibility Studies and Training Program

Request for Proposals – to come

There is an identified need for several studies to provide solid information to energy planners, municipal and state officials, and renewable energy developers. Lack of funding has prevented these studies from being undertaken in the past. An additional technical assistance component will ensure that these studies are disseminated to the public and private sectors through training and outreach. Funded programs could include:

1. Increasing the transmission capacity of the electricity grid in northern New Hampshire to allow for proposed renewable energy projects
2. Providing publicly available, web-based, integrated GIS mapping capability regarding state wind resources
3. Existing biomass resources and the potential impact of commercial biomass project proposals on forests and communities.

To Be Awarded: \$400,000

Overall Program Total: \$457,098.48

For more information on this program, [contact Laura Richardson](#).

9. First Time Homebuyer's Energy Efficiency Program

Request for Proposals – to come

This subcontracted revolving-loan and grant fund program will encourage the improvement of residential homes by providing low and no-interest loans and grants to first-time homebuyers for energy efficiency improvements. All principal and interest returned to the fund will be reinvested in residential energy efficiency programs.

The goals of the First Time Homebuyers Energy Efficiency Program are to:

- 1) Provide New Hampshire's first time home owners with access to capital to make energy efficiency improvements to their homes that reduce their monthly energy costs.
- 2) Educate relatively inexperienced home owners about the importance of energy efficiency and teach them strategies for conserving energy.

The details of the loan/grant program will be finalized with the entity selected to partner with OEP in administering the program. Planning to date has assumed an average award of \$15,000 per home, but final loan and grant sizes will be determined in conjunction with an experienced mortgage lender. At an average of \$15,000 per award, 80 awards could be made with program funds. This program and the Recovery Act SEP funds supporting it will be offered in addition to an expanded NH Weatherization Assistance Program, and in no way will SEP funds be supplanting WAP programs or activities.

Eligible borrowers or grantees will typically be low and moderate-income first time home owners who lack the financial means to undertake the full cost of energy efficiency improvements. Borrowers and grantees will be required to complete training relating to energy efficiency in the home, focused on maintenance practices and other behaviors that save energy and money. A 30-minute curriculum containing information relating to residential energy efficiency will be developed and incorporated into at least fifteen first time homebuyer training workshops serving a total of at least 300 people. Day-long and half-day trainings for first time buyers are currently offered as part of existing programs offered by New Hampshire Housing Finance Authority, as well as a network of affordable housing training centers around the state; the energy efficiency curriculum will be offered free of charge to these centers.

It is anticipated that the funds will be awarded on a first-come, first-served basis to those borrowers meeting eligibility criteria. Loans will be secured by the home and repayable upon refinance or sale; repaid principal and interest will be used for additional energy efficiency residential loans or grants by the administrator through 2016 or a date mutually agreed upon by OEP and the administrator. After that date, all returned principal will be turned over to the SEP program on an annual basis and treated as program income.

It is anticipated that homes will be required to have a home energy audit, including a blower door test, prior to a loan/grant being made, and allowable expenses under the loan or grant would be restricted to those measures identified by the audit. A post-work audit will allow measurement of air sealing improvements resulting from the energy efficiency measures, and all results will be reported to DOE. Surveys of borrowers will be undertaken on a voluntary and confidential basis to ascertain whether homeowners have taken additional energy efficiency measures on their own, and whether the improvements that have been made have saved them money.

It is not anticipated that this program will result in any adverse impacts on the environment, however all agreements or contracts with administrators and managers will include a requirement that a DOE EF-1 form be submitted for projects involving a disturbance or impact to the environment, and that no work that may adversely impact the environment be undertaken until approval is received by DOE and any other relevant permitting entities.

To Be Awarded: \$1,500,000

Overall Program Total: \$1,519,330.67

For more information on this program, [contact Mary Downes.](#)

10. Innovative Initiatives

Request for Proposals – to come

A request for proposals for innovative initiatives from the public, private, and non-profit sectors will focus on providing funding not otherwise available for commercially available projects with high potential for market transformation. Prioritized will be those projects that can demonstrate dramatic reductions in energy use or the successful application of renewable energy technologies. Attention will be paid to documenting and disseminating to

the public the development of these projects and the energy and cost savings realized as a result. In addition, a collaborative review board consisting of state agency personnel as well as private sector volunteers will also be created to analyze renewable and energy efficiency technology and processes that are brought to the attention of the state. These technologies and processes will be evaluated for cost-effective adoption by the public and private sectors.

OEP has created a diverse framework for the ARRA-SEP programs, yet we anticipate that many innovative EE and RE commercially available projects or programs will not fall into the targeted program areas. This program will prioritize projects or programs that excel within the goals and objectives of ARRA-SEP: energy saved, emissions reduced, jobs created/retained, and meeting all of the reporting requirements.

OEP has been meeting with numerous potential grantors for this program, and they have provided feasible requests, goals and creative approaches to solving energy-related issues. They have also proposed a variety of funding requests. This insight will help us determine the shape of the program that will be subject to an RFP that explains the level of awards. We expect to award up to ten awards, with a minimum award of \$50,000 and a maximum award of \$500,000. OEP is still developing this program and its eligibility requirements. Emphasis will be on capacity, replicability, high energy savings, visibility, leveraged money, and job creation.

This will be a competitive process for applicants seeking these funds. OEP will issue an RFP, when the majority of foundational ARRA-SEP programs are underway, and will develop a scorecard to weigh the criteria based on energy saved, emissions reduced, jobs created, leveraged funds, creativity and innovation, and filling a need that other programs may not address.

Depending on the programs and projects funded through this program, measurement and verification will vary. Energy saved, emissions reduced, and jobs created will be monitored as part of the grant agreement.

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OEP anticipates participating in technical assistance meetings with these grantees, as groups or individually, as well as making site visits where appropriate and feasible.

Given the increasing number of requests for consideration of technologies and services relating to energy efficiency and renewable energy, OEP and other state agencies have identified a need for streamlining the evaluation and consideration of these products and services. To that end, a Collaborative Energy Technology Review Board will be established, comprised of interested State agency representatives as well as private sector members. Once established, this board will provide information to the public regarding product and service reviews.

To Be Awarded: \$1,529,273.76

Overall Program Total: \$1,574,546.21

For more information on this program, [contact Laura Richardson.](#)

11. Municipal Energy Planning Program

Request for Proposals – to come

New Hampshire's 234 towns and cities range in size and sophistication regarding how they manage energy in their buildings, transportation sector, school districts, and land use policies. This program will allow for the hiring of a subcontracting agency to work with communities throughout the state to help them to develop energy management strategies that are based on model best practices, and help them to avoid costly and ineffective energy measures. This work will take place in close coordination with the EECBG program as well as other relatively new sources of funding from NH's Renewable Portfolio Standard and the Regional Greenhouse Gas Initiative funds.

OEP anticipates this program will be leveraged with funds from ARRA-EECBG, the Renewable Portfolio Standard, and the Regional Greenhouse Gas Initiative. All three programs are still in their formative stages and as such many details are still to be determined. This funding will be an important component to the Outreach and Technical

Assistance portion of the ARRA-EECBG program, offering energy inventories for each town, developing community-specific road maps and action plans, and providing public forums.

To Be Awarded: \$300,000

Overall Program Total: \$340,803.28

For more information on this program, [contact Laura Richardson](#).

12. Program Support

Staff at OEP

Program support will enhance the effectiveness of the Recovery Act State Energy Program. This will be achieved over three years by:

1. Continuing to maintain the expanding network of public and private partners with whom the Office of Energy and Planning works.
2. Coordinating energy-related funding opportunities available from a variety of funding sources.
3. Overseeing the development of common standards and certification requirements for energy auditors and other energy professionals.
4. Gathering data and submitting reports as required by State of New Hampshire and the Department of Energy under the Recovery Act.
5. Providing project planning, oversight, and administrative services.

To Be Awarded: \$0.00

Program Overall Total: \$487,332.35

For more information on this program, [contact Laura Richardson](#) or [Mary Downes](#).

13. Residential EE Program Expansion

Request for Proposals – to come

Funding will be provided both to existing ratepayer funded energy efficiency programs as well as to new fuel-blind and income-blind programs run by the private sector and municipal utilities. This funding will be used to incent energy efficiency and conservation measures through rebates on efficient purchases of lighting and appliances, insulation and air sealing, and other measures. Objectives of the program include:

1. Increase energy efficiency of residential properties.
2. Save residential customers money through lower energy bills.
3. Reduce the need for new generating facilities.
4. Create jobs in the energy services sector.
5. Disseminate information to the public relating to energy efficiency and available financial incentives.
6. Provide energy efficiency incentives to ratepayers of municipal-owned utilities for the first time

OEP will work with NH's regulated electric utilities to expand the existing CORE efficiency programs funded by the System Benefits Charge, for fuel-blind and income-blind programs for homeowners. The CORE programs have consistently shown energy savings, and thus emissions reductions. In June 2009, the Public Utilities Commission allowed two electric utilities create a pilot project for a fuel-blind and income-blind co-pay weatherization pilot program that this ARRA-SEP program would further expand. Details on this project are still being developed with the utilities and other interested entities. As an expanded program, OEP expects that ARRA-SEP funding would secure existing jobs and create new jobs at the utilities, doing weatherization, lighting and appliance upgrades, and other improvements. This program will not supplant the weatherization program, which targets low-income homeowners.

Projects will range in grant size up to \$4,000, be leveraged with 25% funding from the homeowner, and run in conjunction with the expanded electric-utility programs. OEP seeks this funding to weatherize homes, upgrade lighting and appliances, and make other energy efficiency improvements. OEP anticipates that at least 400 homes will receive direct benefits from this program.

Residential ratepayers of the regulated electric utilities, as well as the unregulated municipal utilities would be eligible for this program. This would be a fuel-blind and income-blind program, requiring a co-pay of 25% from the homeowner for the upgraded measures. ARRA-SEP funding would provide 75% of the funding. Single-family and multi-family units up to four units would be eligible under this program.

This program is subject to a Request for Proposals and will include close monitoring, evaluation, and follow through. The RFP will outline ARRA-SEP requirements.

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To Be Awarded: \$2,000,000.00

Overall Program Total: \$2,045,090.10

For more information on this program, [contact Laura Richardson.](#)

14. Small Business EE/RE Grant/Loan Program

Request for Proposals – to come

Small businesses in New Hampshire are the backbone of our economy. These small businesses need technical and financial assistance in making their facilities and processes more energy efficient and sustainable, and doing so can be the difference between staying in business and closing down. Small, micro loan, and grant funds will be distributed through a subcontracted administrator for businesses seeking to make their facilities or businesses more energy efficient or invest in renewable energy systems.

The primary goal of this program is to incent NH's small businesses to invest in energy efficiency upgrades and renewable energy technologies, thus reducing energy usage and emissions, saving money, and creating and retaining jobs by installing said products or technologies.

OEP will subcontract administration of the loan/grant program. A Request for Information meeting is scheduled for summer 2009 to discuss the overview of ARRA-SEP, this particular program and the Business/Commercial EE/RE Loan/Grant Program, and solicit advice from lending and granting professionals. This advice will include the feasibility of award sizes, grants versus loans, revolving loans, recommended eligibility requirements, breakdowns of EE versus RE projects, and how they recommend the program to be delivered. The administrator will be chosen through a competitive RFP process. We anticipate that businesses seeking the funds and meeting the requirements will be granted the funds on a first-come first, served basis.

OEP will create a scorecard to evaluate the proposals submitted in response to the RFPs to determine which entity will administer this program. The administrator, working with OEP, will determine evaluation criteria for who receives the funding for the EE upgrades or RE systems.

Energy efficiency upgrade proposals will include energy use data, commissioning, and agreements for follow-up data monitoring. Details on this part of the program will be determined in the coming months as OEP and its subcontracted partner ramp up the program.

As stated in OEP's Comprehensive Application of May 12, 2009, OEP does not anticipate these programs or projects to negatively affect the environment. However, if any of the proposed projects potentially impact the environment, a DOE EF1 will be submitted. In each Request for Proposals or Memoranda of Agreement, OEP will include statements about NEPA compliance and reporting. Similarly, Davis Bacon, Historic Preservation, Buy American, reporting requirements, and other important factors will be included in the RFPs.

To Be Awarded: \$1,000,000.00

Overall Program Total: \$1,033,391.59

For more information on this program, [contact Laura Richardson.](#)

15. State Building EE/RE Program

Memorandum of Agreement with the Department of Administrative Services

New Hampshire's Executive Order 2005-04 calls for the State to Lead by Example with energy efficiency improvements that lead to a reduction in energy use by 10% in State-owned facilities. Recovery Act funding will allow for energy efficiency upgrades to 75 state-owned buildings, saving energy and energy costs to the taxpayers.

These funds will supplement existing efforts, including performance contracting, building maintenance, and high-efficiency new construction.

OEP's intent is to demonstrate the State's progress in reaching energy efficiency goals, and doing so with measures that are duplicable by other public and private entities. As an Energy Star partner, New Hampshire is committed to "Leading by Example" and showing the public the efforts being made to reduce energy use at the state level. The milestone of twenty exposures includes media stories in newspaper, radio or television highlighting the work undertaken with SEP Recovery Act funds to increase energy conservation and promote energy efficiency in state buildings. Through an inter-agency quarterly newsletter dedicated to energy issues, OEP staff will also work to report on the progress of Recovery Act funds in reducing energy use in state buildings, and spread awareness of additional measures that can be undertaken by employees to conserve energy.

As a result of Executive Order 2005-4, New Hampshire state agencies have been recording energy usage and cost data into a state-developed and managed database called Enterprise Energy Management System. Quarterly reports are provided to the Interagency Energy Efficiency Committee as well as to the Governor, per the Executive Order. This system will be used to measure and compare pre- and post-project energy performance in those buildings selected for energy efficiency and/or renewable energy upgrades. Reports on actual savings realized will be provided to DOE in regular quarterly reports once measures have been in place for at least 12 months.

The NH Department of Administrative Services has solicited input from all state agencies regarding energy efficiency and renewable energy improvements that are needed in state-owned buildings. These are projects for which other, existing sources of funding have not been identified. In response, over 150 projects collectively estimated to cost in excess of \$20 million were suggested by 10 state agencies (not including the Community College System of NH or the University System of NH).

Suggested projects range in scope from simple lighting upgrades to the rehabilitation of a hydroelectric plant. They were reviewed by staff from NH OEP and NH DAS and ranked according to the following criteria:

- potential to create or retain jobs
- potential to leverage additional funds (primarily utility-sponsored rebates)
- short return on investment
- difficulty in identifying future funding to undertake the project
- potential of the project to be replicated or show the State "Leading by Example"
- involves a sustainable energy technology
- is equipment or property utilized 24 hours a day, 7 days a week, which have higher energy and cost use intensity
- replacement of equipment or property will further State's demand reduction goal

During the ramp up phase of Recovery Act funding, staff will carefully review cost estimates and engineering details for suggested projects in order to prepare specific requests for bids. Recovery Act funding for these projects will be supplemented by a NH capital budget appropriation for energy and lighting improvements, which is currently proposed at \$3 million over the next biennium. However, budget negotiations are ongoing and it is conceivable that given economic challenges, the budget for "energy and lighting improvements" will be level funded. In the last budget cycle, this line item received \$250,000 in State general funds.

Given the age and construction of many state-owned buildings, NH OEP and DAS are focused primarily on energy efficiency improvements to existing buildings rather than proposed construction. [State policy](#) requires that all new construction projects for state owned facilities exceed existing energy code by 20% and utilize life-cycle analysis in costing considerations.

The vast majority of proposed projects under the State Building EE/RE Program will be contained within existing buildings and will not impact the environment. Should we undertake a major project, such as the repair of a state-owned hydro-electric plant, proper environmental impact permits would be pulled with the State's Department of Environmental Services (DES). In addition, a Department of Energy Environmental Checklist (EF1) would be completed for the project and submitted through our State's Point of Contact and the DOE NEPA Compliance website. Should it be determined that additional NEPA review is required, we would seek that review and approval prior to undertaking the proposed project.

To Be Awarded: \$10,700,000.00

Overall Program Total: \$10,746,369.05

For more information on this program, [contact Mary Downes](#).

16. University System EE/RE Building Projects

Memorandum of Agreement with University System of New Hampshire

The University of New Hampshire has an energy plan that includes energy efficiency upgrades. A grant will allow the university system to make high priority energy efficiency upgrades or invest in renewable energy technologies. The University System is proposing upgrades to lighting, HVAC, and temperature control systems, as well as pipe insulation, occupancy sensors, and one window replacement project. All projects will save energy and thus reduce emissions, and provide/retain jobs for those professionals that will be upgrading these systems. These projects were chosen by the University system because they are “shovel ready” and meet all the requirements and objectives of ARRA-SEP.

OEP will direct \$1,300,000 to the University System for appropriate EE or RE projects. The University System proposes include the following projects ranging in funding from \$6,000 to \$500,000 for lighting, central boiler plant upgrade, temperature controls, pipe insulation, occupancy sensors, variable frequency drive replacements, window replacements, programmable thermostats, and the replacement of a 20-ton heat pump.

Funding is a grant to the USNH, part of the State system. OEP will monitor the projects in the field and through phone and email correspondence. The USNH will request bids for installation and upgrades for all work not undertaken by facilities staff.

The University System of New Hampshire has prioritized energy and carbon reductions as part of its mission, and as such is monitoring energy use in many of its buildings. Specific reductions will be measured and reported to OEP and DOE on quarterly basis.

As stated in OEP’s Comprehensive Application of May 12, 2009, OEP does not anticipate these programs or projects to negatively affect the environment. However, if any of the proposed projects potentially impact the environment, a DOE EF1 will be submitted. In each Request for Proposals or Memoranda of Agreement, OEP will include statements about NEPA compliance and reporting. Similarly, Davis Bacon, Historic Preservation, Buy American, reporting requirements, and other important factors will be included in the RFPs.

Press releases and signage about ARRA-funded projects will be consistently used for all programs and projects, including those at the USNH facilities. Furthermore, OEP will be incorporating these energy saving success stories into the presentations OEP staff regularly are asked to perform. Energy savings outcomes will also be promoted to the media, students, faculty, staff, and communities through websites, media, and ribbon-cutting ceremonies

To Be Awarded: \$1,300,000.00

Overall Program Total: \$1,311,018.18

For more information on this program, [contact Laura Richardson](#).