



North Carolina Department of Commerce Energy Office

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March 31, 2011

NORTH CAROLINA ENERGY OFFICE *Recovery Funding Status Report*

Energy Efficiency and Conservation Block Grants & State Energy Program

The North Carolina Energy Office oversees distribution of federal American Recovery and Reinvestment Act funds in four areas: the State Energy Program; the Energy Efficiency and Conservation Block Grants; Weatherization Assistance Program and the ENERGY STAR Appliance Replacement and Rebate Program.

State Energy Program: \$75.9 million -- All of the solicitations for programs funded with State Energy Program dollars will be closed by March 15, 2011. Final review of the last solicitations is underway and it is anticipated that all remaining funds will be obligated by April 30, 2011. To date, **90% (\$67.7 million)** of funds are obligated.

Energy Efficiency and Conservation Block Grants: \$20.9 million in state funds (\$37.1 million directly designed local governments) -- For the state portion, all funds have been obligated.

Weatherization Assistance Program: \$131.9 million -- While production of weatherized units has increased significantly, the Weatherization Assistance Program continues to lag in production of weatherized units. To date, 40% (\$53 million) of the total funding has been dispersed and **8,311 units** have been completed. To increase production, the Commerce Department Energy Division and Weatherization Assistance Program staff is taking the following steps:

- Contracting with several "super contractors" across the state that have the capacity to supplement production by the community action agencies. This step has been taken by several other states;
- Hiring additional weatherization staff within the N.C. Energy Office. Seven new monitors started work in mid-August to expedite monitoring of completed units. An additional accountant and an administrative assistant have also been added;
- Working with various agencies to make weatherization services available to multi-family units.
- Targeting communication with community action agencies about the need to increase production. All community action agencies' executive directors, weatherization coordinators and board chairs have met at least twice, and talk by conference call every two weeks to discuss production targets and additional steps to ensure targets are met.

ENERGY STAR Appliance Replacement and Rebate Program: \$10.8 million (8.8 million from original program and \$2 million added from State Energy Program)

North Carolina's Energy Star Appliance Replacement and Rebate Program is one of the most successful in the country and is being held as a model for other states. The program is the first in the nation to close out -- fully obligating the original \$8.8 million, resulting in the purchase of more than 62,000 appliances and generating more than \$64 million in sales. The additional \$2 million added has brought that total to more than **89,670 appliances** generating more than **\$89 million in retail sales.**

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Energy Efficiency Conservation Block Grants (\$20,925,300)

The North Carolina Energy Office opted to break these funds into four categories and programs, governmental, educational, transportation and greenhouse gas, described below. Also, because the potential recipients often have little or no experience with energy efficiency or competitive grants, we used recovery funds to provide technical assistance to them. Prior to issuance of the request for proposals (RFP), the state used State Energy Program (SEP) funding to provide technical assistance to the applicants. An RFP was issued to solicit firms that would provide a preliminary energy survey, detailed energy survey, assistance in preparation of a strategic energy plan, assistance in completing the application and provide measurement and verification upon completion of the project. These proved very effective and provided almost 300 local governments and education units with a strategic energy plan. Comments have been received by some of the recipients that they had no idea they were wasting as much energy as the report showed. Even those that had not received grants noted they now have a road map on how to effectively tackle wasted energy, which translates to wasted tax dollars, in this tight economy.

PLEASE NOTE: 1. Administrative costs are not separated out in the listings below; 2. Numbers in parentheses indicate Congressional district. In some cases, the projects may cover more than a single district.

Governmental (\$7.15 million) & Educational (\$6.3 million)

RFP Issued: Dec. 4, 2009

RFP Closed: Four closing dates: Dec. 14, 31, 2009 and Jan. 15, Feb. 2, 2010.

Status: First round of 102 projects have been awarded.

In an effort to provide the money to recipients as quickly as possible, the RFP for Energy Efficiency and Conservation Block Grant (EECBG) targeting local governments and public educational organizations were issued with 4 closing dates – Dec. 14, 2009, Dec. 31, 2009, Jan. 15, 2010 and Feb. 2, 2010. Maximum award was \$200,000. These grants focused on low wealth counties, high unemployment areas, saving energy, creating or retaining jobs and encouraging intergovernmental cooperation. While this increased work on staff, it provided those local governments and education units that already had strategic energy plans and were ready to move forward, the opportunity to apply and receive approval in December. Twelve projects qualified and were announced during the first two closings; a total of 105 projects were approved for funding representing 124 local government agencies.

- **Alleghany County/Town of Sparta (5)** -- \$32,920 for upgrading lighting in six buildings. Total cost of the project is \$34,880.
- **Asheboro City Schools, Randolph County (6)** -- \$200,000 for lighting improvements, occupancy sensors and lighting controls. Total cost of the project is \$309,541.
- **Asheville City Schools, Buncombe County (11)** -- \$200,000 for lighting retrofits and room occupancy sensors in 10 schools. Total cost of the project is \$366,341.
- **Asheville-Buncombe Technical Community College, Buncombe County (11)** -- \$135,414 for lighting and lighting controls in seven buildings. Total cost of the project is \$224,976.
- **Bladen Community College, Bladen County (7)** -- \$200,000 for heating and lighting improvements. Total cost of the project is \$228,079.
- **Bladen County (7)** -- \$21,600 for window weatherization in county buildings. Total cost of the project is \$24,000.
- **Bladen County Schools (7)** -- \$197,230 to replace 40 room air conditioning units with more efficient heat pumps; eliminate hot-water heating radiators and integrate new heat pumps into existing heating and air conditioning management systems. Total cost of the project is \$201,830.
- **Bolton, Columbus County (7)** -- \$56,766 for multi-jurisdictional use including: replacing windows, the roof and upgrade lighting for East Arcadia; lighting upgrades and heating and air conditioning improvements for Bolton; Heating and ventilation improvements for Northwest; lighting and ventilation system upgrades for Navassa; and ventilation, water heating and lighting upgrades for White Lake. Total cost of the project is \$92,428.
- **Brunswick County Schools (7)** -- \$48,300 to install occupancy lighting sensors and upgrade lighting at South Brunswick Middle School, Belville Elementary School Lincoln Elementary School, Leland Middle School, South Brunswick High School and North Brunswick High School. Total cost of the project \$76,750.
- **Buncombe County Schools (11)** -- \$200,000 to continue a lighting retrofit program by replacing 17,720 lighting fixtures with high-efficiency fixtures in 11 school buildings. Total cost of the project is \$400,649.

- **Burgaw, Pender County (7)** -- \$11,246 to replace inefficient lighting systems in the town hall, maintenance garage, and waste water treatment plant with energy efficient equipment. Total cost of the project is \$14,795.
- **Burke County (10)** -- \$200,000 to replace single-pane glass with insulated windows at the courthouse. Total cost of the project is \$234,000
- **Burke County Schools (10)** -- \$200,000 for seven projects at 26 schools; repair and replace steam traps, new lighting controls, improve heating and air conditioning systems, replace water heating systems, improve lighting systems and install insulated windows. Total cost of the project is \$407,240.
- **Burnsville, Yancey County (11)** -- \$10,520 to upgrade lighting and ventilation. Total cost of the project is \$15,520.
- **Cabarrus County (8, 12)** -- \$21,300 to replace lighting at the Concord Library and courthouse. Total cost of the project is \$71,750.
- **Caldwell County/Lenoir (10)** -- \$163,972 to upgrade lighting in two Caldwell County buildings and three city of Lenoir facilities. Total cost of the project is \$189,238.
- **Central Carolina Community College, Lee County (2)** -- \$200,000 for lighting retrofits and heating and air conditioning system upgrades. Total cost of the project is \$222,462.
- **Central Piedmont Community College, Mecklenburg County (9, 10, 12)** -- \$200,000 to repair and upgrade the central energy plant for the downtown Charlotte campus and improve lighting. Total cost of the project is \$210,630.
- **Charlotte-Mecklenburg Schools, Mecklenburg County (9, 10, 12)** -- \$200,000 for lighting retrofits to more energy efficient lighting in 16 school facilities. Total cost of the project is \$400,000.
- **Cherryville, Gaston County (10)** -- \$42,493 for upgrading lighting and heating systems at the police department and fire station. Total cost of the project is \$54,493.
- **Clay County/Hayesville (11)** -- \$51,472 to upgrade lighting in five buildings, improve heating and cooling systems and install programmable thermostats. Total cost of the project is \$61,472.
- **Columbus County (7)** -- \$77,665 to improve lighting and install lighting sensors in several buildings. Total cost of the project is \$128,792.
- **Cumberland County Schools (7, 8)** -- \$200,000 for lighting retrofits to more efficient lighting in 11 schools. Total cost of the project is \$486,583
- **Dallas, Gaston County (9, 10, 12)** -- \$7,798 to replace inefficient lighting with energy-saving lighting. Total cost of the project is \$15,597.
- **Dare County (3)** -- \$357,344 to upgrade lighting and heading in three county buildings; replace faulty windows in a Kill Devil Hills facility, upgrade lighting in a Nags Head facility and Dare County Schools to improve lighting and install room occupancy sensors in schools. Total cost of the project is \$546,115.
- **Durham County (4)** -- \$170,252 for chiller upgrades and replacements, lighting upgrades at the Durham County Administrative Complex. Total cost of the project is \$730,789.
- **Durham Technical Community College, Durham County (4)** -- \$198,800 to improve lighting and install room occupancy sensors in 12 buildings. Total cost of the project is \$283,499.
- **Edenton-Chowan Schools, Chowan County (1)** -- \$200,000 to improve lighting, install insulated windows and improve heating and air conditioning systems. Total cost of the project is \$318,641.
- **Edgecombe County Schools (1, 2)** -- \$105,524 to replace lighting in gyms and multi-purpose areas and provide for more efficient lighting and lighting fixtures at the Southwest Edgecombe High School baseball field. Total cost of the project is \$173,724.
- **Elizabethtown, Bladen County (7)** -- \$122,900 for lighting retrofits, heating and air conditioning system improvements, weatherization and water heater replacement. Total cost of the project is \$139,184.
- **Elkin, Surry County (5)** -- \$200,000 to reuse a former super market built in 1985, and convert it into a workforce training center for a branch of Surry Community College. The project will retrofit the building, using energy-saving heating and air conditioning equipment, an energy management system, and upgrade the roof and insulation. Total cost of the project is \$327,295.
- **Enfield, Nash County (1, 2)** -- \$85,106 for lighting retrofits and street lighting improvements. Total cost of the project is \$113,021.
- **Forsyth Technical Community College, Forsyth County (5, 12)** -- \$115,974 to improve heating and air conditioning systems. Total cost of the project is \$174,557.

- **Fuquay-Varina, Wake County (2,4)** -- \$61,454 to upgrade lighting and install room occupancy sensors, improve heating and air conditioning systems and other energy and water saving improvements. Total cost of the project is \$67,636.
- **Garner, Wake County (2, 4)** -- \$23,987 to upgrade lighting at the town hall and public works buildings. Total cost of the project is \$32,715.
- **Gaston County Schools (9, 10, 12)** -- \$169,200 to upgrade heating and air conditioning systems and add system controls for Stanley Middle School and North Gaston High School. Total cost of the project is \$369,200.
- **Gibsonville, Guilford County (6, 12, 13)** -- \$114,132 for heating and cooling upgrades and lighting improvements. Total cost of the project is \$126,750.
- **Graham, Alamance County (6)** -- \$102,553 to upgrade lighting, add programmable thermostats, weatherize and install room occupancy sensors. Total cost of the project is \$118,250 [ROUND 2].
- **Graham County (11)** -- \$26,175 for lighting improvements, room occupancy sensors, programmable thermostats and other upgrades at the courthouse, community building and Stecoah Valley Cultural Arts Center. Total cost of the project is \$41,469.
- **Graham County Schools (11)** -- \$199,380 to improve lighting, install occupancy sensors in bathrooms and hallways and upgrade heating and air conditioning system controls. Total cost of the project is \$265,304.
- **Granite Falls, Caldwell County (10)** -- \$50,350 to upgrade lighting, heating and air conditioning in the municipal buildings. Total cost of the project is \$70,350.
- **Granville County (1, 13)** -- \$85,483 to improve lighting and install programmable thermostats in eight buildings. Total cost of the project is \$135,137.
- **Hamlet, Richmond County (8)** -- \$11,601 for lighting upgrades in eight buildings. Total cost of the project is \$18,285.
- **Harnett County Schools (2, 7)** -- \$32,968 to upgrade heating and air conditioning systems to demand control ventilation. Total cost of the project is \$40,742.
- **Henderson County (11)** -- \$183,101 to work jointly with Hendersonville to replace inefficient lighting with energy-saving lighting and to put occupancy controls in restrooms. Total cost of the project is \$208,701.
- **Henderson, Vance County (1)** -- \$39,549 for lighting upgrades in the city Operations and Service Center. Total cost of the project is \$53,681.
- **Hertford County Schools (1)** -- \$80,500 for lighting upgrades in high schools and heating and air conditioning system improvements. Total cost of the project is \$83,500.
- **Hyde County (3)** -- \$187,056 to retrofit lighting in 11 buildings, upgrade heating and air conditioning, install solar water heating and make other energy and water saving improvements. Total cost of the project is \$187,056.
- **Iredell-Statesville Schools, Iredell County (5, 10)** -- \$40,635 to replace current light fixtures with more energy efficient light fixtures. Total cost of the project is \$71,347.
- **Johnston County Community College (2)** -- \$191,156 for efficiency lighting improvements, climate control improvements in four buildings. Total cost of the project is \$216,402.
- **Kernersville, Forsyth County (5, 12)** -- \$82,125 for lighting efficiency improvements, room sensors, efficient window replacements and tankless water heaters. Total cost of the project is \$123,800.
- **Kinston, Lenoir County (1, 3)** -- \$88,626 to install motion lighting sensors in five buildings and upgrade lighting and heating and air conditioning. Total cost of the project is \$95,066.
- **Lee County (2)** -- \$170,000 for lighting improvements, room occupancy sensors in the courthouse, jail and government center. Total cost of the project is \$181,057.
- **Lee County Schools, Knightdale, Wayne County (2)** -- \$413,544 to improve lighting efficiency, upgrade heating and cooling systems and install energy efficient motors for public swimming facilities[ROUND 2].
- **Lexington, Davidson County (6, 12)** -- \$76,771 to upgrade lighting, install occupancy sensors and programmable thermostats. Total cost of the project is \$117,292.
- **Lexington, Davidson County (6, 12)** -- \$172,921 to replace air conditioning units and motors. Total cost of the project is \$192,971 [ROUND 2].
- **Lincoln County (10)** -- \$46,450 to upgrade lighting in four buildings. Total cost of the project is \$54,500.

- **Lumberton, Robeson County (7)** -- \$137,669 to improve lighting, air conditioning, provide solar water heating and take other energy and water conservation steps. Total cost of the project is \$153,669.
- **Madison County (11)** -- \$144,718 for Madison County, Mars Hill and Marshall projects, including lighting improvements, heating and air conditioning upgrades, water heating improvements and building insulation renovations. Total cost of the projects is \$158,746.
- **Mayland Community College, Mitchell County (10)** -- \$41,412 to improve lighting and exit signs along with installing occupancy sensors. Total cost of the project is \$69,972.
- **McDowell County (11)** -- \$59,279 to improve lighting and install occupancy sensors in seven buildings. Total cost of the project is \$75,906.
- **Mitchell Community College, Iredell County (5, 10)** -- \$44,000 to upgrade heating and air conditioning controls in two buildings. Total cost of the project is \$84,000.
- **Montgomery Community College, Montgomery County (8)** -- \$169,432 for heating and air conditioning improvements, lighting upgrades and vending machine energy controls. Total cost of the project is \$210,759.
- **Morganton, Burke County (10)** -- \$118,622 for five projects: Install updated heating and air conditioning controls in several buildings to provide greater efficiency; upgrade the heating and cooling management system in Morganton's Municipal Auditorium; install occupancy sensors in bathrooms and offices in multiple buildings; retrofit for more efficient lighting in several locations; and insulate Community House. Total cost of the project is \$130,622.
- **Morrisville, Wake County (2, 4, 13)** -- \$5,671 for lighting improvements to the Town Hall. Total cost of the project is \$10,605.
- **Mount Airy Schools, Surry County (5)** -- \$49,835 for web-enabled building automation systems at Mount Airy Middle School. Total cost of the project is \$55,335.
- **Mount Holly, Gaston County (9, 10, 12)** -- \$7,184 to improve lighting in the Tuckaseege Gymnasium. Total cost of the project is \$7,984.
- **Nash County (1, 2)** -- \$126,472 for improvements to the chiller and lighting at the Agriculture Center, hot water and lighting controls at the Detention Center and energy management improvements at the Social Services office.
- **Nash-Rocky Mount Schools, Nash County (1, 2)** -- \$198,235 for lighting efficiency improvements and room occupancy sensors. Total cost of the project is \$240,662.
- **Nashville, Nash County (1, 2)** -- \$12,571 to improve lighting at the police and fire department and other buildings. Total cost of the project is \$17,412.
- **Newton, Catawba County (10)** -- \$53,303 for lighting improvements to 10 city buildings. Total cost of the project is \$63,303.
- **North Wilkesboro, Wilkes County (5)** -- \$38,813 to upgrade lighting, install programmable thermostats and other energy-saving improvements to several buildings. Total cost of the project is \$39,813.
- **Orange County (4)** -- \$225,675 to install a ground source heat pump, solar hot water system and high efficiency hand dryer at the Emergency Services facility; to provide geothermal heating and cooling to the Orange County judicial facility; and improve lighting, upgrade heating and air conditioning, install a solar hot water heater and other energy-saving improvements at the Piedmont Food & Agriculture Center. Total cost of the projects is \$451,350.
- **Pender County Schools (7)** -- \$51,300 for wireless room occupancy sensors and dual voltage switches district wide. Total cost of the project is \$76,750.
- **Person County (13)** -- \$117,546 for lighting and other energy improvements to the county office building, library and courthouse. Total cost of the project is \$192,594.
- **Piedmont Community College, Person County (13)** -- \$130,776 for lighting improvements on the Person and Caswell campuses. Total cost of the project is \$185,258.
- **Pilot Mountain, Surry County (5)** -- \$39,840 for room occupancy sensors, lighting efficiency improvements and building upgrades. Total cost of the project is \$48,160.
- **Pitt County (1, 3)** -- \$107,071 to install electric and water conservation devices. Total cost of the project is \$127,071.
- **Randolph Community College, Randolph County (6)** -- \$154,410 for lighting improvements and installing room occupancy sensors. Total cost of the project is \$162,210.

- **Randolph County Schools (6)** -- \$41,092 for lighting improvements and installation of room occupancy sensors in six school gyms and other classrooms. Total cost of the project is \$50,031.
- **Red Springs, Robeson County (7)** -- \$15,172 to improve lighting at the police department, town hall, public works facility and the community building. Total cost of the project is \$16,487.
- **Richmond Community College, Richmond County (8)** – \$156,696 to install Direct Digital Control Systems in four buildings to more easily and accurately control building heating and cooling systems. Total cost of the project is \$178,220. • Asheville-Buncombe Community College -- \$135,414 for lighting improvements and lighting controls in seven buildings. Total cost of the project is \$224,976.
- **Richmond County (8)** -- \$43,322 for lighting efficiency improvements to the administration and correctional facilities. Total cost of the project \$50,062.
- **Richmond County Schools (8)** -- \$200,000 for lighting improvements and to replace a chiller. Total cost of the project is \$240,245.
- **Roanoke Rapids Schools, Halifax County (1)** – \$167,195 to retrofit existing lighting fixtures to support energy-saving CFL and LED lighting fixtures. Total cost of the project is \$192,164.
- **Rowan-Cabarrus Community College, Rowan County (6, 12)** -- \$177,521 for lighting improvements, occupancy sensors and heating and air conditioning system upgrades. Total cost of the project is \$194,546.
- **Rowan-Salisbury Schools, Rowan County (6, 12)** – \$199,723 to install Direct Digital Control Systems on four schools to more easily and accurately control building heating and cooling systems, and replace inefficient lighting with energy-saving lighting. Total cost of the project is \$222,023.
- **Rutherford County (10, 11)** -- \$209,175 for the county and town of Forest City to install lighting improvements; Rutherford County Schools for room sensors, programmable thermostats, solar assisted hot water systems and other energy and water conservation measures. Total cost of the project is \$300,524.
- **Sanford, Lee County (2)** -- \$60,000 to improve lighting for the city hall. Total cost of the project is \$71,304.
- **Scotland County Schools (8)** -- \$172,331 for lighting efficiency improvements and room occupancy sensors. Total cost of the project is \$221,307.
- **St. Pauls, Robeson County (7)** -- \$32,632 to improve lighting and heating and air conditioning systems, install programmable thermostats and replace inefficient windows. Total cost of the project is \$34,894.
- **Stanly County (8)** -- \$78,879 for lighting efficiency improvements, room occupancy sensors and programmable room climate controls. Total cost of the project is \$81,679.
- **Surry County (5)** -- \$176,166 to improve a former home and garden supply building with energy efficient lighting upgraded lighting systems and heating and air conditioning systems. Total cost of the project is \$196,000.
- **Swain County Schools (11)** -- \$73,432 to improve lighting. Total cost of the project is \$83,422.
- **Tabor City, Columbus County (7)** -- \$200,000 for the installation of energy efficient motors at the waste water treatment plant. Total cost of the project is \$234,992.
- **Tarboro, Edgecombe County (1, 2)** -- \$200,000 to improve the town's electric distribution system; digital controls for the heating and air conditioning system at the police department; improve lighting at the electric department's truck bay, the Braswell Recreation Center, the M.A. Ray Recreation Center and the E.L. Roberson Senior Center. Total cost of the project is \$229,673.
- **Tri-County Community College, Cherokee County (11)** -- \$115,360 for lighting efficiency improvements in Cherokee, Graham and main campus facilities. Total cost of the project is \$128,680.
- **Valdese, Burke County (10)** -- \$200,000 to replace one pump and one variable frequency drive in Lake Rhodhiss Wastewater Treatment Facility's influent pump station and replace three fixed mechanical aerators with a smaller, more efficient aeration system. Total cost of the project is \$219,700.
- **Vance County Schools (1)** -- \$200,000 to improve lighting and replace heating and air conditioning units at Southern Vance High School, replace heating; improve lighting and the boiler at Northern Vance High School and improve lighting at the maintenance and transportation building. Total cost of the project is \$232,036.

- **Vance-Granville Community College, Vance County (1, 13)** -- \$130,836 for energy-efficient lighting upgrades at four buildings. Two of the buildings are on the main campus in Vance County, a third is on the Granville County campus and the fourth is at the Warren County campus. The community college will complete the upgrade to energy efficient light fixtures with more energy efficient fixtures. Total cost of the project is \$130,836.
- **Wake Technical Community College, Wake County (2, 4, 13)** -- \$121,971 to upgrade lighting, install room occupancy and other lighting sensors and other improvements to three buildings. Total cost of the project is \$171,971.
- **Warren County (1)** -- \$182,933 to improve lighting and building insulation at 13 county buildings. Total cost of the project is \$209,708.
- **Wayne County (1, 3)** -- \$132,284 for lighting improvements in four buildings along with room occupancy sensors and heating and air conditioning improvements. Total cost of the project is \$199,100.
- **Western Piedmont Community College, Burke County (10)** -- \$121,890 for repair and improvements to the heating and air conditioning systems. Total cost of the project \$137,297.

Transportation (\$2.5 million)

RFP Issued: July 19, 2010

RFP Closed: August 27, 2010

Status: Six grants awarded.

The transportation RFP is designed to create a foundation for sustainable transportation in the state, to redirect a significant portion of energy expenditures now leaving the state into North Carolina's economy, and to foster a cleaner, healthier, more productive environment by reducing the adverse impacts of the use of fossil fuels.

- **City of Kinston, Lenoir County (1, 3)** -- \$499,500 to replace 740 high pressure sodium and mercury streetlights with LED streetlights. Total cost of the project is \$615,218.
- **Orange County (4)** -- \$193,100 to purchase and install energy efficient processing and storage equipment that will be utilized by area agricultural producers. Total cost of the project is \$1,447,319.
- **Sandhills Community College, Moore County (6)** -- \$227,873 to purchase a campus-wide LED lighting system, add four hybrid cars and one plug-in electric service truck to their existing fleet. Total cost of the project is \$285,646.
- **Town of LaGrange, Lenoir County (1, 3)** -- \$155,475 to replace a combination of high-pressure sodium and mercury vapor streetlights with LED streetlights. Total cost of the project is \$194,445.
- **Town of Robersonville, Martin County (1)** -- \$147,250 to replace a combination of high-pressure sodium and mercury vapor streetlights with LED streetlights. Total cost of the project is \$215,111.
- **Western Piedmont Community College, Burke County (10)** -- \$124,132 to replace Metal Halide light fixtures with more efficient induction lights on roads, parking lots and walkways throughout the Western Piedmont Community College campus. Total cost of the project is \$124,132.

Greenhouse Gas (\$2.5 million)

RFP Issued: Feb. 26, 2010

RFP Closed: April 5, 2010

Status: Closed

The greenhouse gas program is focused on collecting methane at municipal landfills and waste water treatment plants for energy. Maximum award is \$1,000,000. Nine applications were received six awards have been made and three are under NEPA and program review by DOE. DOE questions have been relayed to applicants.

- **Columbus County** -- \$544,500 to install landfill gas generators to produce electricity and to develop on-site greenhouses to use waste heat from the generators. Total cost of the project is \$951,500.
- **Edgecombe County** -- \$325,000 to install generators to produce electricity and develop uses for the waste heat from the generators. Total cost of the project is \$825,000.

- **Robeson County** -- \$1 million to capture, condition and compress methane gas and use it to produce thermal energy for adjacent business use. Total cost of the project is \$1,549,900.
- **Rockingham County** -- \$814,300 to install and operate a methane collection system, carbon credit verification equipment and electricity generators and electricity interconnect upgrades. Total cost of the project is \$1.9 million.
- **Scotland County** -- \$250,000 to build a gas collection system and use the methane to run an engine/generator for electricity generation. Total cost of the project is \$336,045.
- **Wilkes County** -- \$358,635 to complete a gas collection system and use the gas for electricity generation and thermal heat for a greenhouse project.

ENERGY EFFICIENCY BLOCK GRANTS FOR DESIGNATED CITIES AND COUNTIES

Federal Recovery Act Energy Efficiency and Conservation Block Grant funds will be distributed directly to designated North Carolina cities, counties and tribes as follows:

Asheville	\$804,700	Raleigh	\$3,820,400
Burlington	\$223,900	Rocky Mount	\$572,100
Cary	\$1,166,800	Wilmington	\$1,039,900
Chapel Hill	\$554,900	Wilson	\$214,900
Charlotte	\$6,780,100	Winston-Salem	\$2,262,000
Concord	\$638,800	Buncombe	\$624,800
Durham	\$2,173,600	Cumberland	\$590,700
Fayetteville	\$1,652,900	Davidson	\$631,100
Gastonia	\$705,700	Gaston	\$525,600
Goldsboro	\$183,600	Iredell	\$645,100
Greensboro	\$2,554,900	Johnston	\$636,200
Greenville	\$777,600	Mecklenburg	\$649,500
Hickory	\$209,300	Randolph	\$578,200
High Point	\$998,600	Union	\$751,800
Huntersville	\$175,100	Wake	\$3,030,300
Jacksonville	\$781,600		
Kannapolis	\$170,300	Cherokee Indians	\$253,100

State Energy Program (\$75,989,000)

State Energy Program (SEP) funds were broken into the categories described below. The original U.S. Department of Energy (DOE) approved plan required modifications in accordance with the General Assembly directives. Further, some of the modifications conflicted with DOE/SEP rules and were thus denied by DOE. Most of the issues have now been worked out. **PLEASE NOTE:** 1. Administrative costs are not separated out in the listings below; 2. Numbers in parentheses indicate Congressional district. In some cases, the projects may cover more than a single district.

Main Street (\$2.5 million)

RFP Issued: Round 1 – Sept. 18, 2009; Round 2 – June 28, 2010

RFP Closed: Round 1 – Nov. 18, 2009; Round 2 – August 6, 2010

Status: Round 1 – Closed and awardees announced

Round 2-- Solicitations closed Aug. 6 with 20 proposals received; Jan. 26, 2011 -- 17 grants awarded

The Main Street offering builds on the existing Main Street Program coordinated by the Division of Community Assistance in the N.C. Department of Commerce. This RFP was divided into two openings. The first round concluded and awards have been made to eight projects, obligating nearly \$330,000. Having learned from the first round of proposals and received guidance from U.S. Department of Energy on cultural heritage, NEPA, and buy American matters. Technical Assistance was being provided to Main Street Communities as they develop energy plans, audit buildings, and write proposals. 18 communities submitted a response.

ROUND 1:

- **Albemarle, Stanly County (8)** -- \$54,137 for retrofitting 124 existing street lights with LED fixtures on East & West Main Street corridors saving the city an estimated \$25,169 in utility costs annually.
- **Davidson, Mecklenburg County (9, 12)** -- \$5,300 to retrofit all overhead lighting in the Davidson Town Hall and in the Davidson Fire Station to energy efficient fluorescent fixtures and replacing the incandescent bulbs to compact fluorescent mini spirals resulting in an average of 43 percent energy cost reduction.
- **Davidson, Mecklenburg County (9, 12)** -- \$13,767 to partner with Urban Organic I, LLC, to achieve EPA Energy Star certification of the Business Center @ South Main Square by making energy efficiency improvements through the replacement of manual thermostats to electronic programmable thermostats and replacement of enthalpy controller with new electronic enthalpy controller resulting in a cost savings of \$750.00 annually.
- **Edenton, Chowan County (1)** -- \$30,500 for energy efficiency retrofits in the historic Town Hall to include insulation and new lighting for an energy cost savings of \$4,520 annually.
- **Hendersonville, Henderson County (11)** -- \$52,200 for energy efficiency upgrades in three Main Street businesses as well as a street-lighting retrofit. Upgrades include heating and air conditioning equipment retrofits, insulation, solar hot water installation, lighting retrofits and occupancy sensor controls. The changes will result in an overall 40 percent reduction in electricity use by the business owners. The street lighting retrofit includes the replacement of 32 light fixtures on Main Street with LED light fixtures for a savings to the town of \$11,500.00 annually.
- **Newton, Catawba County (10)** -- \$6,310 to purchase and install energy-efficient lamps on the main floor and basement level in the City Hall building resulting in a 35-40 percent reduction in lamp electricity use.
- **Spruce Pine, Mitchell County (10)** -- \$66,937 for the installation of a solar photovoltaic system to be located on the roof of a vacant service station in downtown Spruce Pine. The solar system will produce a 12.3 percent energy cost reduction in the first year of operation for Craftsmen Inc./The Calafate Group. The energy generated from the solar system will be used to partially offset the costs associated with operating drying kilns which are used in the manufacturing process to dry, sterilize, and convert large sections of tree bark into the company's "Bark House" brand exterior shingles. Funding will also assist in energy efficiency upgrades of three kilns. In total, the project represents a 52.3 percent reduction in energy use by the manufacturer.

ROUND 2

- **Burlington Downtown Corporation (6, 13)**, Alamance County -- \$101,794 for energy efficiency initiatives in 12 buildings in downtown Burlington.
- **Concord, Cabarrus County (8, 12)** -- \$245,482 – To provide for the solar panel project on the municipal parking deck.

- **Davidson, Mecklenburg County (9, 12)** -- \$85,225 for energy efficiency upgrades to Town Hall and two downtown businesses.
- **Forest City, Rutherford County (10, 11)** -- \$227,781 for energy efficiency upgrades to seven downtown businesses.
- **Goldsboro, Wayne County (1, 3)** -- \$230,410 – To upgrade city hall and provide energy efficient lighting, heating and air conditioning, and chiller improvements at the city fire and police complex.
- **Granite Falls, Caldwell County (10)** -- \$65,338 for energy efficiency upgrades to eight Main Street businesses.
- **Henderson, Vance County (1, 2)** -- \$31,570 for downtown City Hall roofing insulation and energy efficient roofing membrane.
- **Henderson-Vance Downtown Commission, Vance County (1, 2)** -- \$107,202 for energy efficient upgrades in three downtown businesses.
- **Hendersonville, Henderson County (11)** -- \$90,455 for energy efficiency upgrades at four businesses on Main Street.
- **Lenoir, Caldwell County (10)** -- \$116,306 for energy efficiency upgrades to 16 downtown businesses.
- **Rocky Mount, Nash County (2, 3)** -- \$236,000 to upgrade street light figures and make energy improvements to three downtown businesses.
- **Sanford, Lee County (2)** -- \$67,385 for lighting retrofits and upgrades for the Temple Theatre in downtown Sanford.
- **Sylva, Jackson County (11)** -- \$38,000 for energy efficiency upgrades and retrofits for nine downtown businesses.
- **Tarboro, Edgecombe County (1)** -- \$196,671 – To provide for energy efficiency initiatives in seven Main Street District businesses.
- **Washington, Beaufort County (1, 3)** -- \$71,538 for energy efficient upgrades in seven Main Street businesses in downtown Washington.
- **West Jefferson, Ashe County (5)** -- \$30,850 for energy efficient heating/cooling and lighting upgrades to Town Hall.
- **Wilkesboro, Wilkes County (5)** -- \$82,095 for energy efficiency upgrades to the Wilkes Heritage Museum and Betty's Breads and Pastries.

Commercial Renewables (\$4 million)

RFP Issued: Aug. 21, 2009

RFP Closed: Oct. 26, 2009

Status: Round 2 selections announced Jan. 26, 2011

The commercial renewables project was one of the first offered. Almost 100 proposals were received.

ROUND 1

- **Elon University, Alamance County (6, 13)** -- \$200,000 for solar thermal systems to be installed at Elon University to produce approximately 4,500 gallons of hot water per day for four buildings on campus. One of the newer student housing facilities on campus, Colonnades A and B are two identical student housing facilities, and each dorm will get a 20- panel solar thermal system. The Colonnades Dining Hall will get a 30-panel solar thermal system. The Danieley Center, another dorm, will get a 20-panel solar thermal system. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation. A Web-based monitoring service providing access to energy production data on a daily, weekly and monthly basis will collect flow rates and temperatures, capturing actual performance of the systems. Total cost of the project is \$482,734, and it will generate 920,000,000 BTU annually.
- **FLS YK Farm, Caldwell County(10)** -- \$32,358 for a solar thermal project to be installed at Meadowood Garden Apartments in Lenoir to supply hot water for the complex. FLS Energy is a national solar energy generation company headquartered in North Carolina. Meadowood Garden Apartments includes 50 one- and two- bedroom apartments and townhouses. The project will consist of a 21-panel solar thermal energy system to supply 1,050 gallons of hot water a day to the water heating system for the apartment building. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation. A Web-based monitoring service providing access to energy production data on a daily, weekly and monthly basis will collect flow rates and temperatures, capturing actual performance of the systems. Total cost of the project is \$129,433, and it will generate 215,000,000 BTU annually.

- **Patrick Yarn Mill, Cleveland County (10)** -- \$154,108 for a 100 kW photovoltaic solar system to be installed on the Patrick Yarn Mill, a textile manufacturing company. The system will be installed on the roof of the Clevemont Plant and Corporate Offices of Patrick Yarn Mill in Kings Mountain -320 panels, along with a 3.1 kW solar array mounted on the ground in the front of the building. The Web-based monitoring system gives a complete readout of energy production from the PV system and includes real-time energy generation as well as historic data for amount of energy produced. Total cost of the project is \$616,432, and it will generate 131,000 kWh annually.
- **Firstfloor K-12 Solutions, Cumberland County (7, 8)** -- \$200,000 for a photovoltaic solar project placed in Fayetteville at the New Century International Elementary School and Public Library & Information Center. Firstfloor is a company specifically designed to provide turnkey development solutions to educational institutions. The school complex is designed as a LEED Platinum building and will serve 800 students. This building is anticipated to approach net zero energy consumption when the energy generation of the photovoltaic solar system is considered. Energy data will be real-time and access will be available via the Internet. Total cost of the project is nearly \$4.2 million, and it will generate 820,000 kWh annually.
- **Gaston County (9, 10, 12)** -- \$200,000 to complete a landfill gas-to-energy project to harvest methane from the Gaston County Solid Waste Landfill in Dallas. The Gaston County Public Works Department Solid Waste Division will lead the project, which will support equipment necessary for landfill gas transport, conditioning, and compression, preparing the gas for use in two engines - generator sets used to create electricity. The landfill gas transport and conditioning equipment is part of a larger county-funded project that also includes a power generation facility. Total cost of the project is \$446,200, and it will generate 26.35 million kWh annually.
- **Schiele Museum, Gaston County (9, 10, 12)** -- \$60,000 for photovoltaic solar systems to be installed in two locations at the Schiele Museum in Gastonia: one on the museum building and the other on a pole-mount system in the parking lot. The museum building system will be installed on an existing south-facing roof. The parking lot installation will use a dual axis tracking system positioned in the parking lot near the main entrance of the museum. The data acquisition and monitoring system allows complete plant monitoring, remote diagnosis, data storage and display. Long-term data storage provides information about changes in plant performance, and allows access to review performance of equipment at any time from remote locations. Total cost of the project is \$120,000, and it will generate 23,000 kWh annually.
- **FLS YK Farm, Martin County (1)** -- \$200,000 for a 250 kW photovoltaic solar system to be installed on the roof of the Food Lion in Robersonville. The roof-mounted, grid-tied installation will include all labor, materials and services required for a complete and functioning grid-tied photovoltaic system. The system will include: solar panels, panel racking and mounting, wiring, inverters, and monitoring system. Total cost of the project is \$1.75 million, and it will generate 330,000 kWh annually.
- **McDowell County (11)** -- \$66,749 for a solar thermal system at the Senior Center and the Law Enforcement Center in Marion, supplying hot water. The showers, laundry and the dining facilities at the jail require large volumes of hot water year-round. McDowell County operates its Meals on Wheels program out of its Senior Center, which also requires large amounts of hot water. The Law Enforcement Center will get 50 solar thermal panels and the Senior Center will get six panels. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation. A Web-based monitoring service will provide access to energy production data on a daily, weekly and monthly basis. Total cost of the project is \$333,747, and it will generate 572,000,000 BTU annually.
- **McDowell County Schools (11)** -- \$128,627 for solar thermal systems totaling 109 panels, to be installed at McDowell High School, East McDowell Junior High and Marion Elementary School to supply hot water for the schools. These three public schools include dining facilities that prepare breakfast and lunch for more than 2,300 students per day as well as showers at the middle and high school. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation. A Web-based monitoring service will provide access to energy production data on a daily, weekly and monthly basis. Total cost of the project is \$643,136, and it will generate 657,000,000 BTU annually.

- **Charlotte-Mecklenburg Board of Education, Mecklenburg County (9, 10, 12)** -- \$24,719 for a 20 panel solar thermal system to be installed at the J.V. Washam Elementary School in Cornelius. The solar thermal system will provide the cafeteria and school facilities with 1,000 gallons of hot water per day. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation. A web-based monitoring service will provide access to energy production data on a daily, weekly and monthly basis. The total cost of the project is \$123,596, and it will generate 204,000,000 BTU annually.
- **City of Charlotte, Mecklenburg County (9, 10, 12)** -- \$38,042 for a photovoltaic solar project to be placed on the parking deck of the Charlotte-Mecklenburg Government Center. The system will be installed in the southwest corner of the parking deck on a single steel pole. The monitoring system will be web-based and allow the City of Charlotte access to real time energy production data for a variety of time periods. Total cost of the project is \$76,084, and it will generate 131,000 kWh annually.
- **FLS-YK Farm, Mecklenburg County (9, 10, 12)** -- \$143,056 for a 32 kW capacity photovoltaic solar system to be installed at both the Beatties Ford and Hickory Branch Libraries in Charlotte. The system will include: solar panels, racking and mounting, wiring and monitoring system. Total cost of the project is \$572,228, and it will generate 42,000 kWh annually.
- **Commonwealth Brands, Rockingham County (5, 13)** -- \$200,000 for a rooftop photovoltaic solar system installed at Commonwealth Brands, a manufacturer and distributor of tobacco products in Reidsville. In addition to the installation of the solar panels, major elements of this project include furnishing and installing a photovoltaic powered 100 kW inverter, and all wiring and system data monitoring equipment capable of tracking five years of real-time data via Internet. Total cost of the project is \$810,000, and it will generate about 162,000 kWh annually.

ROUND 2

- **ABB, Ltd., Edgecombe County (1)** -- \$200,000 for a rooftop solar system to be installed at an ABB manufacturing plant in Pinetops. Total cost of the project is \$1,490,400.
- **Black Farms, Harnett County (2)** -- \$64,158 to capture methane from an existing swine farm housing about 5,900 hogs in eight barns in Harnett County. Methane will be drawn from covered lagoons and used to generate power using an engine generator set. Total cost of the project is \$256,630. – MOVED TO GREEN BUSINESS FUND
- **Bruce Cox; Cox Lake Dam, Randolph County (6)** -- \$50,000 to support modifications to improve the efficiency of the existing small hydropower generation system at Cox Lake Dam on the Deep River, north of Ramseur. Total cost of the project is \$ 252,660.
- **Cannon Memorial YMCA, Cabarrus County (8, 12)** -- \$50,404 to install a solar thermal rooftop collector system to supply 2,000 gallons of hot water per day for showers and janitorial purposes. Total cost of the project is \$ 252,021.
- **Davidson College, Mecklenburg County (9, 12)** -- \$200,000 for a solar system on the Baker Sport Complex to offset energy usage at the sport complex. Total cost of the project is \$670,648.
- **FLS Owner II Guilford College, Guilford County (6, 12, 13)** – \$200,000 for a multi-site solar rooftop project consisting of eight solar thermal systems supplying hot water in four student residence halls, Guilford College's dining facility, the Ragan-Brown Field House, and the Hege Library. Total cost of the project is \$1,291,102.
- **FLS Owner II- Acme McCrary, Randolph County (6)** -- \$200,000 for a solar thermal renewable energy project consisting of 200 solar thermal collectors delivering 10,000 gallons of solar heated water daily will be installed at the Acme-McCrary knitted products manufacturing plant in Asheboro. Total cost of the project is \$1,174,352.
- **Henderson County (11)** -- \$71,419 for solar thermal systems at the Henderson County Courthouse and the Detention Center in Hendersonville. The systems will produce hot water supplying the inmate cafeteria, showers, laundry facilities, and other hot water needs. Total cost of the project is \$357,097.
- **Layne's Family Pharmacy, Rockingham County (5, 13)** -- \$140,525 for a rooftop solar project to offset energy usage at Layne's Pharmacy in Eden. The total cost of the project is \$ 562,100
- **Mars Hill, Madison County (11)** -- \$76,000 for a photovoltaic array and solar hot water system with two collectors. Uses for the rooftop 12 kW PV portion of the project includes offsetting energy use at the Mars Hill Library. The total project cost is \$156,000.

- **Morgan Mechanical Contractors, Rockingham County (5, 13)** -- \$198,750 for a rooftop solar system to offset energy usage at existing Morgan Mechanical Contractor office in Eden. Total cost of the project is \$795,000.
- **Myers Park Baptist, Mecklenburg County (9, 12)** -- \$52,500 for a solar thermal system at Myers Park Baptist Church in Charlotte. Water from the solar thermal system will be used meet the domestic hot water needs of the Church. Total cost of the project is \$105,000.
- **Preformed Line Products, Stanly County (8)** -- \$53,263 for solar systems to installed at the Preformed Line Products manufacturing facility in Albemarle. Preformed Line Products manufactures solar racking equipment (among other cable and fiber optic equipment) and will demonstrate a variety of racking equipment manufactured by Preformed with the systems installed in this project. Total cost of the project is \$213,051.
- **Watauga County (5)** -- \$40,931 to for a landfill gas to energy project at the Watauga County Landfill. Uses of the electricity generated include: an animal shelter and an arts education center. Waste thermal energy and landfill gas will be used to heat a greenhouse complex. Total cost of the project is \$81,862.
- **YMCA of Western North Carolina, Buncombe County (11)** -- \$24,719 for a solar thermal rooftop collector system projected to supply 1,000 gallons per day of hot water used for showers and janitorial purposes at the YMCA in Asheville. Total cost of the project is \$123,596.

Workforce Development (\$6.85 million)

RFP Issued: Feb. 17

RFP Closed: March 17

Status: 23 programs were awarded funding.

Funds will be used to provide internships and fellowships for college students and recent graduates with organizations in the energy efficiency and renewable energy fields. The program has received a lot of media attention for its innovative nature.

- **Alamance Community College, Graham, Alamance County (6, 13)** – Alamance Community College (ACC) proposes to place 40 interns both inside and outside of ACC. These positions offer real-world practice of classroom knowledge and support for the Green Technology Certificate Program, a 12 credit-hour program to train a green workforce. Grant amount: \$339,276; Total project cost: \$438,240.
- **Washington city government, Beaufort County (1, 3)** -- The city of Washington will use two interns from East Carolina University to work with city staff and the staff of Martin County Community Action Agency which provides weatherization services locally. The analysis will establish the most effective weatherization measures. Grant amount: \$30,000; Total project cost: \$45,000.
- **N.C. Arboretum Society, Asheville, Buncombe County (11)** -- The Arboretum will use four interns to conduct a campus energy assessment, evaluate the results and provide recommendations for energy savings and improvements. The team will also design and prepare a model “sustainability report card” based on their findings and existing sustainable practices. Grant amount: \$89,600; Total project cost: \$ 96,590.
- **Sustainable Sandhills, Fayetteville, Cumberland County (7, 8)** – Sustainable Sandhills will use eight interns for 42 weeks as follows: two with the City of Fayetteville Environmental Services Department; two with Cumberland County Schools; two with Alternative Energy Concepts, a local green energy company; and two with Sustainable Sandhills. Grant amount: \$165,200; Total project cost: \$220,000.
- **Clean Energy Durham, Durham County (4)** – Clean Energy Durham will use two student interns from N.C. Central University to work with the agency’s community outreach staff to organize and train volunteers who work with their neighbors to educate them on energy savings, do-it-yourself energy-saving techniques and cost effectiveness of retrofits and group motivation. Grant amount: \$85,945; Total project cost: \$160,104.
- **Duke University Nicholas School of the Environment, Durham, Durham County (4)** – Duke University will use 18 interns and four fellows. The interns will be placed with, and work to improve, the energy efficiency of existing businesses in North Carolina and receive hands-on experience in energy management. The fellows will launch new green energy ventures in North Carolina and work on the launch of a new clean energy business based in the state; commit to lead the new venture for at least a year; participate in the Duke EntreMentoring program and engage with the clean energy industry community in North Carolina. Grant amount: \$345,239; Total project cost: \$368,933.

- **Winston-Salem city government, Forsyth County (5, 12)** – The city of Winston-Salem will use six interns to focus on one of three areas: sustainable architecture, environmental studies and science, or education through a public awareness program. Materials prepared by the interns will become reference materials in the city’s new sustainability resource center and used to respond to questions from the various public sectors. Grant amount: \$115,085; Total project cost: \$226,285.
- **Guilford County government, Greensboro (6, 12, 13)** – Guilford County government will use one sustainability fellow to assist with energy audits of county buildings, analyze energy audits and recommend savings, perform energy surveys of county buildings, provide training on energy usage for employees, review billing rates of each energy provider, develop training and protocols for facilities employees and write energy-related grants. Grant amount: \$40,000; Total project cost: \$47,662.
- **North Carolina A&T State University, Greensboro, Guilford County (6, 12, 13)** – North Carolina A&T State University will have 13 internships and seven fellowships that will provide experiences in energy-related businesses, industries and agencies in the Piedmont Triad area. Grant amount: \$149,074; Total project cost: \$ 164,913.
- **AdvantageWest Economic Development Group, Fletcher, Henderson County (11)** -- AdvantageWest will place nine interns in private sector, full-time, clean-energy businesses providing experiential learning. Three fellows will be placed in the public sector council of governments or at AdvantageWest. Grant amount: \$479,257; Total project cost: \$1,842,709.
- **Charlotte city government, Mecklenburg County (9, 10, 12)** – The city of Charlotte will use up to 13 interns and four fellows in partnership with Davidson College, Johnson C. Smith University, and UNC-Charlotte to recruit candidates for internships and fellowships assigned to work in one of six departments and be involved in: Energy Efficiency and Conservation Block Grant implementation, tracking, and reporting; neighborhood-level energy solutions; developing policies for sustainable city facilities; developing a green preferable purchasing policy; assess energy use and develop energy savings at Charlotte Douglas International Airport projects; and reduce energy demand in operation of treatment of wastewater. Grant amount: \$425,359; Total project cost: \$771,112.
- **Davidson College, Davidson, Mecklenburg County (9, 10, 12)** – Davidson College will place one intern at Lowe’s corporate headquarters in Iredell County during the summer of 2011. The intern will likely be a rising Davidson junior with course-related experience in the green energy field. Grant amount: \$7,200; Total project cost: \$7,200.
- **U.N.C. - Chapel Hill, Orange County (4)** – UNC-Chapel Hill will provide: one fellowship for a recent graduate of a graduate program; two fellowships for recent graduates of undergraduate programs; 12 summer internships for current graduate students; 10 summer internships for current undergraduate students; eight regular session/semester internships for current graduate students; and 28 regular session/semester internships for current graduate students. Grant amount: \$324,736; Total project cost: \$459,647.
- **Catawba College Center for the Environment, Salisbury, Rowan County (6, 12)** – Catawba College plans to place 17 interns/fellows with 11 partnering green energy related businesses and organizations. Grant amount: \$184,270; Total project cost: \$241,600.
- **Environmental Defense Fund, Raleigh, Wake County (2, 4, 13)** – The Environmental Defense Fund will place 24 masters-level graduate students at approximately 18 host outside-the-agency organizations, either full time during the summer or part-time during the academic year. Grant amount: \$269,209; Total project cost: \$364,117.
- **Meredith College, Raleigh, Wake County (2, 4, 13)** – Meredith College will use one fellow to work with staff to cut energy consumption and develop a campus-wide energy management and conservation program. Grant amount: \$30,586; Total project cost: \$ 53,924.
- **N.C. State University Aerospace & Engineering, Raleigh, Wake County (2, 4, 13)** – The N.C. State Aerospace and Engineering program will use 48 full and part-time interns to work with outside partners active in conducting energy assessments and studies, or work on campus in the Industrial Assessment Center or Energy Management Program. Grant amount: \$464,801; Total project cost: \$ 559,441.

- **N.C. State University College of Natural Resources, Raleigh, Wake County (2, 4, 13)** – The N.C. State University College of Natural Resources will use 45 interns and three fellows with Master's degrees. An internship experience is a course requirement for completion of a degree in several majors within this department. Student interns may be drawn from several curricula areas: environmental technology, forest management, natural resources, paper science and engineering, or wood products. Grant amount: \$435,481; Total project cost: \$501,212.
- **N.C. State University Solar Center, Raleigh, Wake County (2, 4, 13)** – The N.C. State University Solar Center plans to use six internships and four fellowships to share research or projects and provide estimates of greenhouse gas reductions from their work. Possible positions and job experiences for participants include bioenergy feedstock breeding and genomics, feedstock growth, cultivation and harvesting techniques, analysis of novel energy crops, feedstock chemical analysis, biofuel chemical analysis, biomass conversion systems, biofuel refineries, economic modeling and lifecycle analyses. Grant amount: \$373,469; Total project cost: \$395,969.
- **N.C. State University Utilities and Engineering Services/Department of Energy Management, Raleigh, Wake County (2, 4, 13)** – N.C. State Utilities and Engineering Services proposes to place six fellows with internal organizations including the N.C. State Office of Energy Management, the Solar Center, the Sustainability Office, the Future Renewable Electric Energy Delivery and Management Systems Center, and Advanced Energy. Grant amount: \$475,488; Total project cost: \$593,488.
- **Raleigh city government, Wake County (2, 4, 13)** – the City of Raleigh will use a fellow to: conduct policy research on energy efficiency/renewable and green initiatives; assist in outreach and education opportunities applicable to social media outlets and web portal publications pertaining to sustainability; serve as a liaison for the local governments for sustainability organization and a coalition to educate federal policymakers about the role of local governments in addressing climate change and reducing greenhouse gas emissions; assist other sustainability staff with greenhouse gases reduction plans; assist staff with policy development; and serve as the main developer and educator of sustainability curriculum for the City of Raleigh Employee Awareness Training. Grant amount: \$104,864; Total project cost: \$166,316.
- **Appalachian State University, Boone, Watauga County (5)** – Appalachian State will have 32 interns and 10 fellows who will provide experiences in energy-related businesses or organizations. Grant amount: \$485,859; Total project cost: \$ 606,982.
- **N.C. Department of Administration, Raleigh, Wake County (4)** – The N.C. Department of Administration Youth Advocacy and Involvement Office will create up to 10 Student Energy Internships as part of its 2011 State government Internship Program. Total cost of the project is \$47,190.

Building Codes (\$1 million)

RFP Issued: June 30, 2010

RFP Closed: August 2, 2010

Status: Eight solicitations received

Funds in this category are focused on training building code inspectors and others in the commercial and residential building energy code. The program will be closely coordinated with the North Carolina Department of Insurance, inside their regulatory and inspection system. Eight applications were received.

- **Building and Fire Code Academy, \$439,925**

Technical Assistance (\$3.7 million)

RFP Issued: Aug. 21, 2009

RFP Closed: Sept. 14, 2009

Status: Awards issued – Assistance being provided

This pool of money is being used to provide technical assistance in the EECBG and Main Street programs. As described above, more than 30 technical assistance providers were qualified and contracted by the N.C. Energy Office to provide services to bidders. To date, this is one of the key success stories of the program, as it has provided assistance and guidance to groups that had little or no concept of energy savings opportunities.

Government, Universities and State Agencies (\$12 million)

RFP Issued: Direct Solicitation

RFP Closed: NA

Status: Contract 1 – NC Dept. of Administration; Contract 2 - UNC General Administration

These funds are for energy efficiency in state owned facilities in keeping with SB 668 which requires that state facilities be 30% more efficient.

STATE AGENCIES

- **Alcoholic Beverage Commission**, Wake County (2, 4, 13) -- \$193,505
- **Dept. of Environment & Natural Resources**, Wake County (2, 4, 13) -- \$1,243,910
- **Dept. of Health and Human Services**, Wake County (2, 4, 13) -- \$1,283,486
- **Dept. of Administration**, Wake County (2, 4, 13) -- \$660,000
- **Dept. of Corrections**, Wake County (2,4,13) -- \$621,305
- **N.C. National Guard**, Wake County (2, 4, 13) -- \$137,589
- **N.C. Ports Authority**, New Hanover County (7) -- \$394,250

UNIVERSITIES

- **Appalachian State University**, Watauga County (5) -- 357,500
- **East Carolina University**, Pitt County (1, 3) -- \$587,000
- **Elizabeth City State University**, Pasquotank County (1) -- \$204,630
- **Fayetteville State University**, Cumberland County (7, 8) -- \$414,000
- **N.C. A&T State University**, Guilford County (6, 12) -- \$554,629
- **N.C. Central University**, Durham County (4) -- \$499,248
- **N.C. State University**, Wake County (2, 4, 13) -- \$777,624
- **U.N.C.-Chapel Hill**, Orange County (4) -- \$779,260
- **U.N.C.-Charlotte**, Mecklenburg County (9, 10, 12) -- \$469,600
- **U.N.C.-Greensboro**, Guilford County (6, 12, 13) -- \$250,280
- **U.N.C.-Pembroke**, Robeson County (7) -- \$500,000
- **U.N.C. Center for Public Television**, Durham County (4) -- \$357,280
- **U.N.C. Wilmington, New Hanover County** (7) -- \$553,166
- **Western Carolina University**, Jackson County (11) -- \$717,000
- **Winston-Salem State University**, Forsyth County (5,12) -- \$351,441

New Residential (\$3.5 million)

RFP Issued: February 9, 2010

RFP Closed: March 15, 2010

Status: Closed and two awardees had been announced.

The RFP for this program calls for ENERGY STAR labeling of homes, with additional scoring credit for homes that go beyond those levels. Programs like EarthCraft, Health Built Homes and Environments for Living add value to the process. Seven applications were received. Plans are to improve energy efficiency in nearly 2,500 single-family homes and 480 multi-family units, along with 1,700 manufactured homes.

- **Appalachian State University Energy Center in Boone (5)** will receive \$2.6 million to focus on site-built single-family and multi-family home energy efficiency improvements.
- **Systems Building Research Alliance**, a nonprofit consortium of electric utilities and major manufactured and modular home building companies originally incorporated in North Carolina and now based in New York, will receive \$1.1 million to focus on manufactured homes built to federal standards, addressing energy efficiency improvements. The alliance is currently responsible to the federal Environmental Protection Agency for quality control oversight of Energy Star for both manufactured and modular homes.

Energy Efficiency for Commercial, Industry and Non-Profits (\$5 million)

RFP Issued: July 9, 2010

RFP Closed: August 11, 2010

Status: Received 59 proposals and 14 awards were made.

The RFP for this program is designed to provide significant energy savings and job creation for contractors working with the businesses to improve building efficiency.

ROUND 1

- **Bernhardt Furniture, Caldwell County (10)** -- \$346,250 to optimize the efficiency of the existing dust and ventilation systems in its woodworking operations by installing Variable Frequency Drives on 13 motors that will allow increased energy efficiency. Total cost of the project is \$685,025.
- **Biogen Idec, Research Triangle Park-Wake County (2, 4, 13)** -- \$138,140 to optimize the efficiency of the existing ventilation systems in its laboratory space by implementing a building-wide ventilation flow rate reduction and unoccupied laboratory setback control system. Total cost of the project is \$276,637.

- **Box Board Products, Guilford County (6,12, 13)** -- \$150,000 to replace the 400-W High Intensity lights in its 335,000-sf production facility with T5HO fluorescent lights and will upgrade its inefficient furnaces with high efficiency direct fired furnaces. Total cost of the project is \$262,025.
- **Daimler Trucks North America, Rowan and Gaston counties (6, 9, 10, 12)** -- \$450,000 to replace 2,250 high intensity lights at its Cleveland plant and 285 high intensity lights at its Mt. Holly plant with T8 fluorescent fixtures. Total cost of the project is \$937,918.
- **DSM Pharmaceutical, Pitt County (1, 3)** -- \$500,000 to replace two inefficient water chillers with one energy efficient chiller and install a variable frequency drive on the pump of a third water chiller unit. Total cost of the project is \$586,500.
- **East Carolina Health (Heritage Hospital, Inc.), Edgecombe County (1, 2)** -- \$275,000 to replace two inefficient chillers with one high efficiency chiller unit. Total cost of the project is \$786,978.
- **Friendliest Hotel, Guilford County (6, 12, 13)** -- \$500,000 to install variable frequency drives on all air handlers over 1-Hp, replace existing building supply and exhaust air systems with a fresh air make-up system (on-demand and energy recovery ventilation components), add a heat recovery chiller to the existing chiller system, update incandescent lighting fixtures with LEDs and standard plumbing fixtures with low-flow fixtures throughout the O. Henry Hotel in Greensboro, NC, to LEED Existing Buildings standards. Total cost of the project is \$875,000.
- **JDC Manufacturing, Rockingham County (5, 6,13)** -- \$250,644 to replace its current T12 lights with T5HO fluorescent lights, disconnect 13 old, inefficient furnaces and replace them with two high efficiency furnaces, and install a 50-kW rooftop solar photovoltaic array. Total cost of the project is \$438,627.
- **Lenox Corporation, Lenoir County (1, 3)** -- \$148,240 to replace high bay metal halide lights with T5HO fluorescent lights and T12 lights with T8 lights. Total cost of the project is \$148,240.
- **Presbyterian Medical Care (Presbyterian Hospital Matthews), Mecklenburg County (9, 10, 12)** -- \$500,000 to upgrade air handler and terminal unit controls, install variable frequency drives, optimize chiller plant controls, upgrade the current pneumatic control system to a direct digital control system, deploy a series of optimized control algorithms, and re-commission all systems. Total cost of the project is \$1.6 million.
- **Post Publishing Co. (Salisbury Post), Rowan County (6, 12)** -- \$146,810 to replace T12 and metal halide lights with T8 lights, weatherize (insulate, caulk and seal) production loading areas and freight elevators, replace its inefficient rooftop HVAC units with new, high efficiency units and re-commission its central energy management system. Total cost of the project is \$236,244.
- **SALT Block Foundation, Catawba County (10)** -- \$150,000 to replace and cap its boiler heating system with energy efficient heat pumps. Total cost of the project is \$437,200.
- **Sealed Air Corp., Caldwell County (10)** -- \$500,000 to replace an inefficient chiller with a heat recovery unit and add a heat exchanger and cooling tower to take advantage of ambient cooling opportunities. Total cost of the project is \$500,000.
- **The Interflex Group, Wilkes County (5)** -- \$275,398 to change the drying stage of its flexographic printing process from compressed air to heated air blown by motors on variable frequency drives. Total cost of the project is \$387,503.
- **Thomasville Furniture Industries, Caldwell County (10)** -- \$292,625 to upgrade its lighting system from T12s to T8s and install energy management control systems for its air compressor and vacuum pump systems. Total cost of the project is \$392,268.
- **United Chemi-Con, Mills River, Henderson County (11)** -- \$500,000 to disconnect a large, inefficient oil-fired boiler and several connected steam/heat systems with and replace it with more efficient electric ovens and wash stations, and replace five inefficient air conditioners with more efficient, smaller units that better meet the reduced air conditioning needs that result from eliminating heat loss from the current steam system. Total cost of the project is \$936,400.

ROUND 2

- **Armcell, LLC, Catawba County (10)** -- \$165,000 to replace the 400-W HID lights in its 250,000-sf production facility with T5HO fluorescent lighting at its Conover facility. Total cost of the project is \$165,000.

- **Bissell Companies, Mecklenburg County (9, 12)** -- \$118,660 for re-commissioning and controls optimization of 24 buildings over 1,850,000 sq. ft. of office space. Total cost of the project is \$239,933.
- **BSH Home Appliances, Craven County (3)** -- \$142,899 to replace over 600 metal halide fixtures with T5HO fluorescent lighting high bay fixtures with occupancy sensors in the warehouse facility. Total cost of the project is \$229,165.
- **DAK Americas, Brunswick County (7)** -- \$500,000 to replace the HVAC system in their administration building and convert to chilled water based, variable air volume system incorporating multiple frictionless magnetic bearing centrifugal chillers with water cooled condensers. Total cost of the project is \$750,000.
- **General Dynamics Satcom Technologies, Catawba County (10)** -- \$242,675 to update and retrofit facilities at Newton and Catawba offices with energy efficient fixtures and lighting. Total cost of the project is \$242,675.
- **Kapstone Kraft, Halifax County (1)** -- \$500,000 to install a Steam Profiler and modify the transfer path of the paper sheet to prevent rewetting. The addition of the Steam Profiler will allow condensate flash steam that is currently vented to be reused. Modifying the transfer path to prevent rewetting will save 11,670-lbs/hr of (1) water that needs to be withdrawn from the Roanoke River and (2) heated into dryer steam. Total cost of the project is \$918,906.
- **NEPTCO, Caldwell County (10)** -- \$458,500 to replace an inefficient hydrocarbon oxidizer with a new, more efficient unit. NEPTCO will also replace metal halide and T12 fixtures and lamps with T8s. Total cost of the project is \$458,500.
- **Pine Hall Brick, Rockingham County (5, 13)** -- \$266,885 to increase its site energy efficiency by installing a more efficient lighting system, replacing its HVAC systems with more energy efficient units, upgrading the pressure control system on its kilns for more efficient operation, and changing its process to reduce load. Total cost of the project is \$266,885.
- **South Atlantic Services, New Hanover County (7)** -- \$108,711 to replace over 600 metal halide fixtures with 4-lamp and 10-lamp T5HO fluorescent lighting high bay fixtures and T8 fixtures. Total cost of the project is \$161,481.
- **Unifi Manufacturing, Inc., Rockingham County (5, 13)** -- \$219,958 to replace over 3000 T12 lamps and ballasts with T8 lamps and ballasts in the Reidsville plant and administrative areas. Total cost of the project is \$550,000.
- **Van Wingerden, Henderson County (11)** -- \$310,000 to install and integrate a hot water storage tank into its existing climate control system to reduce boiler cycling and purging. Total cost of the project is \$445,000.

Energy Efficiency for Cities, Counties and Schools (\$4.5 million)

RFP Issued: June 30, 2010

RFP Closed: August 10, 2010

Status: Received 65 proposals seeking a total of \$15.6 million, 17 awards were made and final review is in progress on the remaining applications.

- **Brunswick County/Boiling Spring Lakes** -- \$170,024 upgrade to energy efficient lighting and install room occupancy sensors. Total cost of the project is \$252,062.
- **Caldwell Community College** -- \$301,701 to upgrade lighting to dimmable LED and install direct digital controls for building energy consumption automation. Total cost of the project is \$322,559.
- **Cleveland Community College** -- \$227,853 to upgrade to energy efficient lighting. Total cost of the project is \$230,353.
- **Davidson County Community College and Davidson County Public Schools** -- \$179,832 to upgrade lighting in a gym and install a more energy efficient chiller. Total cost of the project is \$276,664.
- **Gastonia (Gaston County)** -- \$257,227 to upgrade to more energy efficient lighting and heating and cooling systems. Total cost of the project is \$357,227.
- **Guilford Technical Community College** -- \$109,000 to upgrade lighting and heating and cooling systems. Total cost of the project is \$893,220.
- **Halifax Community College** -- \$219,093 to upgrade to energy efficient lighting. Total cost of the project is \$245,254.
- **Jones County/Jones County Schools** -- \$403,164 to upgrade lighting, install energy efficient motors and remote energy consumption monitors and controls. Total cost of the project is \$460,740.

- **Kernersville (Forsyth County)** -- \$497,869 to improve heating and cooling systems, improve lighting and water consumption efficiency. Total cost of the project is \$588,822.
- **Martin Community College/Williamston** -- \$106,378 to upgrade to energy efficient lighting and heating and air conditioning and other improvements.
- **Piedmont Community College (Person County)** -- \$187,794 to install room occupancy sensors, lighting timers, heating and cooling improvements and weatherization. Total cost of the project is \$342,711.
- **Plymouth (and 6 other communities)** -- \$406,564 to upgrade heat pumps, install energy efficient lighting, solar water heating and upgrade heating and cooling systems in seven communities and agencies including Plymouth, Castalia, Craven County schools, Parmele, Taylorsville Windsor and Duck with a \$172,000 project for a geothermal project for heating and cooling of the Duck town hall and fire station . Total cost of the projects is \$834,539.
- **Wake Forest (and 6 other communities)** -- \$495,506 to upgrade heating and air conditioning, retrofit lighting, improve weatherization and install solar panels in seven communities and agencies including Wake Forest, Apex and Morrisville. Total cost of the projects is \$585,358.
- **Washington (Beaufort County)** -- \$259,979 to upgrade lighting, install direct gas-fired air heating systems and ventilation timers. Total cost of the project is \$288,779.

Green Business Fund (\$10 million)

RFP Issued: Pre-proposals – Dec. 18, 2009

RFP Closed: Pre-proposals – Jan. 19, 2010

Status: 170 full proposals requested Jan. 29, 2010; closing date TBA

The Green Business Fund is working through a multi-step process to award funds. The first round of awards has been made and was directed to projects that were not funded by a previous effort of state resources. These awards are currently going through DOE review for compliance of the multiple rules (NEPA primarily). The second round of funding is mid-way through the process. About 600 pre-proposals were received in the first round. Of those, 170 have passed and offered the opportunity to complete a full proposal.

Alternative Fuels (\$4 million)

RFP Issued: July 9, 2010

RFP Closed: August 11, 2010

Status: Received 7 proposals, 5 awards granted.

The RFP for this program has been issued and five awards were granted. The focus of this project is to increase the demand for alternative fuels in North Carolina through demonstration and deployment of alternative fuel vehicles.

- **Advanced Energy, Wake County (2, 4, 13)** -- \$500,000 to install electric vehicle charging stations in the Research Triangle and in Asheville and encourage the purchase of Nissan LEAF all-electric automobiles. Total cost of the project is \$1.7 million.
- **City of Raleigh, Wake County (2, 4, 13)** -- \$125,000 to install 15 to 20 electric vehicle charging stations in “high-frequented” public areas to support the city’s ongoing effort to develop an electric vehicle infrastructure in the city. Total cost of the project is \$250,000.
- **Kargo, Wake County (2, 4, 13)** -- \$105,500 – to convert existing 10,000-gallon petroleum underground storage tanks to biodiesel and dispense B20 (a blend of 20% biodiesel and 80% petroleum diesel). Total cost of the project is \$118,960.
- **N.C. State University Solar Center, Wake County (2, 4, 13)** -- \$500,000 to distribute six grants to partners to implement project to support equipment purchases, contracting, installation and costs of advance technology vehicle purchases. Total cost of the project is \$589,096.
- **ReLoad, Mecklenburg County (9, 10, 12)** -- \$311,440 to place an ethanol loading transmission and loading facility at the ReVenture Eco-Industrial Park that will move biofuel from rail tanker cars to fuel trucks for transportation to fuel depots. Total cost of the project is \$973,181.

BioTechnology Center (\$550,000)

Energy efficiency improvements to the center as well as photovoltaic.

BioFuels Center (\$1,075,000)

This grant provides energy efficiency improvements for the BioFuels Center and provides public education in the area of Biofuels, including \$701,500 for geothermal heating and cooling improvements.

Ocean Wind Energy Analysis (\$300,000)

Wind energy study conducted by UNC-CH. It has passed all DOE and NEPA reviews.

Appliance Rebate (\$10.8 million [~~\$8.8 million from original program and \$2 million added from State Energy Program~~])

The appliance rebate program is targeted to get energy efficiency appliances and technologies into the market. North Carolina developed the program in two phases. Phase 1, April 22 through April 25, was a 15 percent rebate on the purchase – to replace – a refrigerator, freezer, dishwasher or clothes washing machine. It was an “at the cash register” rebate. 480 stores across North Carolina took signed up to take part in Phase 1. Consumers in 78 counties made purchases as part of the program. More than 54,000 appliances were purchased accounting for an estimated \$46.4 million in sales.

Phase 2 started on June 1 and ran until June 4 (though the “waiting list” is still open and we expect all on waiting list to get rebates). This phase was a “mail-in” rebate on several Energy Star items, including tankless gas water heaters, central air condition systems, solar water heaters, heat pumps, gas furnaces and gas water heaters. In Phase 2, there were specific dollar amounts for the rebates as follows: Central air conditioners -- \$300; Clothes Washers -- \$100 ; Dishwashers -- \$75; Freezers -- \$75; Gas Furnaces -- \$300; Gas Storage Water Heater -- \$200; Gas Tankless Water Heater -- \$200; Heat Pumps -- \$300; Refrigerators -- \$150; Solar Water Heater – \$150.

All together, during Phase 1 and Phase 2 with the \$8.8 million N.C. received in recovery funds: **62,972** appliances sold; **\$64 million** in retail sales. With the added \$2 million in funds from the State Energy Program that total has grown to more than **89,670** appliances and more than **\$89 million** in retail sales.

Phase 1 & 2 appliance-by-appliance breakdown:

APPLIANCE	PHASE 1	PHASE 2	TOTAL
Refrigerators	19,756	8,196	27,952
Clothes Washers	14,551	7,316	21,867
Dishwashers	13,930	4,704	18,637
Freezers	2,130	609	2,739
Heat Pumps	NA	1,725	1,725
Central A-C	NA	1,051	1,051
Gas Furnaces	NA	777	777
Tankless Waterheaters	NA	746	746
Gas Waterheaters	NA	222	222
Solar Waterheaters	NA	5	5
TOTAL	54,428	25,351	75,718

AWAITING FINAL UPDATE

Energy Assurance (\$1 million)

The Energy Assurance Program is a direct ARRA supported grant to the State Energy Office for the purpose of building our capacity to deal with energy emergencies, to re-write the energy emergency action plan, and to plan for smart grid deployment activities.

Current Status: Two new hires have started. Additionally, the SEO is working with the Utilities Commission who also received an ARRA supported grant for smart grid development.

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