New York State Energy Research and Development Authority

New York's RGGI-Funded Programs Status Report

Quarter Ending September 30, 2012





NYSERDA's Promise to New Yorkers: New Yorkers can count on NYSERDA for objective, reliable, energy-related solutions delivered by accessible, dedicated professionals.

Our Mission:	Advance innovative energy solutions in ways that improve New York's economy and environment.
Our Vision:	Serve as a catalyst—advancing energy innovation and technology, transforming New York's economy, and empowering people to choose clean and efficient energy as part of their everyday lives.
Our Core Values:	Objectivity, integrity, public service, and innovation.

Our Portfolios

NYSERDA programs are organized into five portfolios, each representing a complementary group of offerings with common areas of energy-related focus and objectives.

Energy Efficiency and Renewable Programs

Helping New York to achieve its aggressive clean energy goals – including programs for consumers (commercial, municipal, institutional, industrial, residential, and transportation), renewable power suppliers, and programs designed to support market transformation.

Energy Technology Innovation and Business Development

Helping to stimulate a vibrant innovation ecosystem and a clean energy economy in New York – including programs to support product research, development, and demonstrations, clean-energy business development, and the knowledge-based community at the Saratoga Technology + Energy Park[®].

Energy Education and Workforce Development

Helping to build a generation of New Yorkers ready to lead and work in a clean energy economy – including consumer behavior, youth education, and workforce development and training programs for existing and emerging technologies.

Energy and the Environment

Helping to assess and mitigate the environmental impacts of energy production and use – including environmental research and development, regional initiatives to improve environmental sustainability, and West Valley Site Management.

Energy Data, Planning and Policy

Helping to ensure that policy-makers and consumers have objective and reliable information to make informed energy decisions – including State Energy Planning, policy analysis to support the Regional Greenhouse Gas Initiative, and other energy initiatives; and a range of energy data reporting including *Patterns and Trends*.

NYSERDA RECORD OF REVISION

New York's RGGI Funded Programs Status Report

Quarter Ending September 30, 2012

Final Report March 2013

3/28/2013	Original Issue	Original Issue

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1 Introduction

To implement the Regional Greenhouse Gas Initiative (RGGI), New York State established its Carbon Dioxide (CO₂) Budget Trading Program through regulations promulgated by the Department of Environmental Conservation (DEC) and the CO₂ Allowance Auction Program through regulations promulgated by the New York State Energy Research and Development Authority (NYSERDA).¹ This report is prepared pursuant to the "Operating Plan for Investments in New York under the CO₂ Budget Trading Program and the CO₂ Allowance Auction Program" (Operating Plan),² and provides an update on the progress of programs through the quarter ending September 30, 2012. It contains an accounting of program spending, an estimate of program benefits, and a summary description of program activities and implementation. An amendment providing updated program descriptions and funding levels for the 2012 version of the Plan was approved by NYSERDA's Board of Directors on June 18, 2012.³

1.1 New York's RGGI Funds⁴

As of September 30, 2012, New York State sold nearly 175.7 million CO₂ allowances and received approximately \$396.0 million in auction proceeds. In addition, nearly \$2.0 million in interest earnings were allocated on the RGGI portfolio. These funds are reinvested for program implementation and are allocated to various RGGI programs. Detailed auction results are presented in Table 1-1, while total RGGI funds are shown in Table 1-2.

¹ For the DEC adopted regulations, see 6 NYCRR: CO₂ Allowance Auction Program Regulations.

² On June 21, 2010, NYSERDA Part 242: CO₂ Budget Trading Program Regulations; for the NYSERDA adopted regulations, see 21 NYCRR Part 507 published an Operating Plan that provides the budgets and descriptions for the programs that would be funded by the RGGI auction proceeds. Please refer to <u>RGGI Use of Auction Proceeds</u> for ongoing developments. ³ Please refer to the <u>2012 RGGI Operating Plan Amendment</u> for details.

⁴ RGGI funds include both auction proceeds and interest earned from those proceeds. See <u>NY Proceeds by Auction</u> for more details on auction results.

Auction Date	Control Period	Clearing Price	New York State Allowances Sold	New York State Auction Proceeds
12/17/08	First	\$3.38	12,422,161	\$41,986,904
3/18/09	First	t \$3.51 12,422,161		\$43,601,785
5/18/09	Second	\$3.05	776,385	\$2,367,974
6/17/00	First	\$3.23	11,861,849	\$38,313,772
0/1//09	7/09 Second \$2.06 776,385		\$1,599,353	
0/00/00	/09/09 First \$2.19 11,861,849 Second \$1.87 776,385		\$25,977,449	
9/09/09	Second	\$1.87	776,385	\$1,451,840
	First	\$2.05	11,861,850	\$24,316,793
12/02/09	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		\$1,062,847	
	First	\$2.07	15,136,022	\$31,331,56
3/10/10	3/10/10 Second \$1.86 740,167 First \$1.88 15,136,022		\$1,376,711	
(/0/10	6/9/10 First \$1.86 740,167 Second \$1.88 15,136,022 Second \$1.86 756,801		\$28,455,721	
6/9/10			\$1,407,650	
9/8/10	First	\$1.86	11,421,736	\$21,244,429
9/8/10	Second \$1.86 464,418		\$863,817	
12/1/10	/1/10 First \$1.86 8,678,724		\$16,142,427	
12/1/10	Second	\$1.86	\$1.86 414,863	
3/9/11	First	\$1.89	15,153,524	\$28,640,160
5/9/11	Second	\$1.89	757,676	\$1,432,008
6/8/11	First	\$1.89	4,519,648	\$8,542,135
0/0/11	Second	\$1.89	383,114	\$724,085
9/7/11	Second \$1.89 383,114 /7/11 First \$1.89 2,689,151		\$5,082,495	
)///11	Second	n/a	-	-
12/7/11	First	\$1.89	9,621,954	\$18,185,493
12///11	Second	n/a	-	-
3/14/12	Second	\$1.93	8,895,733	\$17,168,765
6/6/12	Second	\$1.93	8,265,426	\$15,952,272
9/5/12	Second	\$1.93	9,315,659	\$17,979,222
Firs	First Control Period Total		142,786,651	\$331,821,129
Seco	nd Control Period	l Total	32,894,435	\$64,158,189
TOTAL		175,681,086	\$395,979,318	

Table 1-1. New York State's RGGI Auction Results⁵

Source: RGGI Inc.

⁵ New York did not offer allowances for sale in the RGGI auction held on December 25, 2008, where the clearing price for 2009 vintage allowances was \$3.07. The first control period for fossil-fuel fired electric generators took effect on January 1, 2009 and concluded on December 31, 2011. The second control period took effect on January 1, 2012 and extends through December 31, 2014.

Fund Category	Cumulative Funds
RGGI Auction Proceeds	\$395,979,318
Interest Allocated to the RGGI Portfolio	\$1,998,557
TOTAL	\$397,977,875

 Table 1-2. New York State's RGGI Funds through September 30, 2012

2 Budget and Spending Status

This section presents financial data for the approved RGGI programs through September 30, 2012. Table 2-1 reflects how the nearly \$398.0 million of current funds are allocated across the four major program areas:

- Residential/Commercial/Industrial/Municipal
- Transportation
- Power Supply and Delivery
- Multi-Sector

Table 2-1 also presents the current contract commitments and spending levels for each program.

	Allocation of	Contract				
	Cumulative	Contract				
	Funds ^a	Commitments ^b	Funds Spent			
Residential/Commercial/Indu	1	T	1			
Residential Efficiency Services	29.8	21.0	11.2			
Municipal Water and Wastewater	2.5	1.6	1.1			
Industrial Process Improvement	10.2	2.0	0.5			
Total Residential/Commercial/Industrial/Municipal	42.5	24.6	12.8			
Transportatio	n					
Transportation Research	2.0	1.5	1.1			
Total Transportation	2.0	1.5	1.1			
Power Supply and D	elivery					
Statewide Photovoltaic Initiative	11.3	11.3	11.3			
Advanced Power Technology	4.5	3.9	3.3			
Total Electric Power Supply and Delivery	15.8	15.2	14.6			
Multi-Sector						
Clean Technology and Industrial Development	17.2	10.5	2.4			
Climate Research and Analysis	6.2	2.1	1.6			
Regional Economic Development and GHG Reduction	19.1	-	-			
Cleaner Greener Communities	48.0	12.6	1.4			
Total Multi-Sector	90.6	25.2	5.5			
Other Costs ^c						
Deficit Reduction Plan (DRP) Transfer ^d	90.0	90.0	90.0			
Con Edison Smart Grid Program ^e	13.2	13.2	13.2			
Program Administration ^f	14.5	7.0	7.0			
Metrics and Evaluation	9.7	1.8	0.2			
RGGI Inc. Costs ^g	4.3	3.8	3.6			
New York State Cost Recovery Fee	3.3	1.3	1.3			
OTHER COSTS TOTAL	135.1	117.1	115.4			
SUBTOTAL	286.0	183.6	149.4			
Green Jobs - Gree		10010				
Green Jobs - Green NY	112.0	112.0	40.2			
TOTAL	398.0	295.6	189.6			

Table 2-1. Available Funding and Financial Status through September 30, 2012 (\$ million)

^a Includes auction proceeds and allocated interest on the RGGI portfolio. The allocation is consistent with the three-year budget presented in the Operating Plan.

^bRepresents total cumulative encumbrances, i.e. funds that have been spent or legally obligated. In addition, contract commitments for Green Jobs-Green NY (GJGNY) include funds set aside in a dedicated account that are not otherwise spent or legally obligated to particular contracts. ^c The values for Program Administration, Metrics and Evaluation, and the New York State Cost Recovery Fee represent aggregate funds and

commitments for RGGI-funded activities, NOT including GJGNY. For information on GJGNY finances, please refer to Table 4.1.

^d On December 4, 2009, New York State enacted numerous deficit reduction measures that included the transfer of \$90 million in RGGI auction proceeds to the General Fund.

⁶On December 22, 2009, NYSERDA's Board approved a proposed consent decree that resolves the legal challenge to the State's RGGI program. The parties to the consent decree estimate that the total commensurate benefit for years 2009 - 2014 is \$12.3 million and agreed to dedicate such funds for the development of smart grid technologies in the Con Edison territory. In October 2010, State Supreme Court Judge Thomas J. McNamara signed a Stipulation and Order of Discontinuance signed by all the parties, thereby formally ending the litigation.

^f Includes NYSERDA's upfront administrative expenses related to the development and implementation of the CO_2 Budget Trading Program, the CO_2 Allowance Auction program, and the Operating Plan.

^g The first-year budget includes RGGI Inc. start-up costs and New York State's share of ongoing RGGI Inc. expenses. RGGI Inc. is a non-profit corporation created to support development and implementation of the CO₂ Budget Trading Program.

Totals may not sum exactly due to rounding.

Source: NYSERDA

Table 3-1 and Table 3-2 show the estimated cumulative annual benefits as of September 30, 2012 at the portfolio and program levels, respectively.⁶ These metrics are estimates made by program implementation staff and have not been evaluated. When evaluation results are available, they will be presented in subsequent Annual Evaluation and Status Reports, which also will include these metrics along with macroeconomic indicators such as job creation resulting from program activity. NYSERDA begins tracking program benefits once projects have been installed. The reporting of fund transfers may lag behind the installation date such that program benefits are reported prior to the financial reporting of funds spent. At this time, the program benefits include some projects that are also supported by other non-RGGI funding sources administered by NYSERDA.

Benefits	Results through Septmeber 30, 2012
Net Greenhouse Gas Emission Savings 1 (Annual Tons CO ₂ e 2)	51,353
Net Electricity Savings (Annual MWh)	15,023
Renewable Energy Generation (Annual MWh)	4,278
Net Natural Gas Savings (Annual MMBtu)	183,379
Net Fuel Oil Savings (Annual MMBtu)	303,649
Net Propane Savings (Annual MMBtu)	14,187
Net Steam Savings (Annual MMBtu)	15,901
Net Wood Savings (Annual MMBtu)	1,599
Net Kerosene Savings (Annual MMBtu)	285
Net Gasoline Savings (Annual MMBtu)	-
Net Residual Oil Savings (Annual MMBtu)	144
Net Diesel Savings (Annual MMBtu)	-
Total Fuel Savings (Annual MMBtu) ³	519,144
Annual Energy Bill Savings to Participating Customers (\$ Million) ⁴	10.7

Table 3-1. Summary of Cumulative Portfolio Benefits through September 30, 2012

¹ These emission reductions are associated with both electric and fossil-fuel saving measures. Under a cap-and-trade system, the total number of emission allowances is determined by regulation. Regulated entities can purchase allowances and collectively emit up to the cap that is currently in place. Therefore, in the near term, electric efficiency projects may not decrease the overall amount of emissions going into the atmosphere. Nevertheless, electric efficiency projects will reduce end-users' responsibility or footprint associated with emissions from electricity production. ² CO₂e stands for carbon dioxide equivalent and describes the amount of CO₂ that would have the same global warming potential as a given mixture of gases based on factors published by the Intergovernmental Panel on Climate Change.

³ This total excludes bill savings associated with steam for the Multifamily Performance Program.

Source: NYSERDA

⁴ This total excludes bill savings associated with steam for the Multifamily Performance Program, and bill savings associated with the Multifamily Carbon Emission Reduction Program. The Multifamily Carbon Emissions Reduction Program is a fuel-switching program and does not claim any energy or bill savings.

⁶ Cumulative annual benefits are reflective of the annual impacts from all currently operational projects installed since program inception.

Program	Net Electricity Savings or Renewable Energy Generation (Annual MWh)	Net Energy Savings (Annual MMBtu)	Net Greenhouse Gas Emission Savings ¹ (Annual Tons CO ₂ e ²)		
Residential, Commercial, Industrial & Municipal Sect	ors				
Green Jobs - Green New York					
GJGNY - Single-Family Residential Audit Component ³	2,562	201,829	14,317		
GJGNY - Single-Family Residential Loan Component ³	1,507	108,698	7,783		
GJGNY - Multifamily Residential Audit Component ³	7,956	115,270	11,318		
Residential Efficiency Services					
Multifamily Performance Program	3,692	178,006	15,992		
Multifamily Carbon Emissions Reduction Program ⁴	-	-	5,644		
EmPower New York SM	-	11,872	930		
Home Performance with ENERGY STAR [®]	103	30,296	2,743		
Green Residential Building Program ³	428	8,007	657		
Solar Thermal Incentive Program	-	1,449	103		
Power Supply & Delivery					
Statewide Photovoltaic Program	4,278	-	1,767		
Cross-Program Overlap ⁵	1,226	136,284	9,902		
TOTAL	19,301	519,144	51,353		

Table 3-2. Summary of Cumulative Program Benefits through September 30, 2012

¹ These emission reductions are associated with both electric and fossil-fuel saving measures. Under a cap-and-trade system, the total number of emission allowances is determined by regulation. Regulated entities can purchase allowances and collectively emit up to the cap that is currently in place. Therefore, in the near term, electric efficiency projects may not decrease the overall amount of emissions going into the atmosphere. Nevertheless, electric efficiency projects will reduce end-users' responsibility or footprint associated with emissions from electricity production.

 2 CO₂e stands for carbon dioxide equivalent and describes the amount of CO₂ that would have the same global warming potential as a given mixture of gases based on factors published by the Intergovernmental Panel on Climate Change.

³ The benefits for this program include some projects that also have been supported by other non-RGGI NYSERDA funding sources.

⁴ The Multifamily Carbon Emissions Reduction Program is a fuel-switching program and does not claim any energy or bill savings.

⁵ Cross-program overlap accounts for projects that received any combination of a GJGNY audit, a GJGNY loan, or a RGGI-funded incentive through the Home Performance with ENERGY STAR[®] Program or the Multifamily Performance Program.

Source: NYSERDA

4.1 Residential, Commercial, Industrial, and Municipal Sectors

4.1.1 Green Jobs – Green New York (GJGNY)

GJGNY is a statewide program created to promote energy efficiency, the installation of clean technologies, to reduce energy costs, and reduce greenhouse gas emissions. GJGNY provides free and subsidized energy audits to single family, multifamily, small business, and not-for-profit building owners as well as reduced cost financing options for completing the energy efficiency services. GJGNY is also designed to support sustainable community development and create opportunities for green jobs. The GJGNY Annual Report was issued on September 30, 2012⁸. Table 4-1 presents financial data for the approved GJGNY programs through September 30, 2012.

⁷ The metrics presented in this section are estimates made by program implementation staff and are not validated; evaluation results will be presented, as they are available, in the Annual Evaluation and Status Reports.

⁸ For more information, see the <u>Green Jobs – Green New York Annual Report</u>.

	Allocation of	Contract			
	Cumulative Funds ^a	Commitments ^b	Funds Spent		
Workforce Development, O	utreach and Marketing				
Workforce Development	8.0	3.9	1.4		
Outreach and Marketing	10.5	10.2	3.9		
Total Workforce Development, Outreach and Marketing	18.5	14.1	5.3		
Residen	tial				
Energy Audit Incentive	11.6	5.7	5.7		
Implementation Costs	1.0	1.5	1.4		
Financing: Loans	-	19.2	19.2		
Financing: Loan Repayments	-	(1.7)	(1.7)		
Total Financing	26.7	17.5	17.5		
Total Residential	39.2	24.8	24.7		
Multifar	nily				
Energy Audits	3.3	1.5	1.0		
Implementation Costs	1.6	1.7	1.5		
Financing: Loans	-	0.5	0.5		
Financing: Loan Repayments	-	(0.05)	(0.05)		
Total Financing	11.1	0.5	0.5		
Total Multifamily	16.0	3.6	2.9		
Small Commercial					
Energy Audits	5.6	3.9	1.8		
Implementation Costs	5.0	0.6	0.2		
Total Financing	13.0	0.1	0.03		
Total Small Commercial	23.7	4.6	2.0		
SUBTOTAL	97.4	47.1	34.8		
Other C	osts				
Program Administration	7.8	4.1	4.1		
Program Evaluation	5.6	2.6	0.7		
New York State Cost Recovery Fee	1.9	0.6	0.6		
OTHER COSTS TOTAL	15.3	7.2	5.4		
TOTAL	112.8	54.4	40.2		

Table 4-1. Green Jobs – Green New York Available Funding and Financial Status through September 30, 2012 (\$ million)

^a Includes auction proceeds and allocated interest on the Green Jobs-Green NY (GJGNY) funds. The allocation is consistent with the three-year budget presented in the Operating Plan.

^bRepresents total cumulative encumbrances, i.e. funds that have been spent or legally obligated.

Financing: Single-Family Residential. Changes were made in the GJGNY program to give contractors more confidence in the amount of a potential customer's incentive and a project's eligibility for the Unsecured Loan product. NYSERDA has amended program requirements such that a project where at least 85% of the cost is for "Pre-qualified measures," the project is automatically eligible for the Unsecured Loan without additional cost-effectiveness screening being required. The customer must still qualify for the loan through NYSERDA's loan originator.

NYSERDA continues to work with a financial advisor and rating agencies in preparation for the first financial bond issuance, planned for the fourth quarter of 2012. The federally-funded Qualified Energy Conservation Bond (QECB) will be used to raise additional capital to sustain the residential Revolving Loan Fund.

GJGNY financing, a vital component of the GJGNY program, continues to expand and offer additional services to participants. Through September 30, 2012, a total of 2,066 Residential loans have been closed. These loans provided \$19.4 million in funding enabling the completion of NYS GJGNY energy efficiency projects that, without financing, may never have been started. The financed energy-efficiency projects are anticipated to save 1,507 MWh and 108,698 MMBtu per year.

Financing: Multifamily Residential. The Multifamily team has been working on the development of an On-Bill Recovery financing program for multifamily energy efficiency projects. This financing will allow building owners to finance a project and pay the debt service as part of their monthly utility bill. The advantage of this approach is that if the property is sold, the debt stays with the property. Underwriting standards have been drafted for implementing the On-Bill recovery multifamily financing and are currently being reviewed and edited. Once finalized, a lender will be selected to review OBR loan applications for the program.

The GJGNY financing program for multifamily building owners is underway. Through September 30, 2012, one project closed a loan through the Multifamily Performance Program (MPP).⁹

Financing: Small Business and Not-for-Profit. In June 2011, NYSERDA launched the Participation Loan, NYSERDA provides 50% of the loan principal, up to \$50,000, at 0% interest and the participating lender provides the remaining loan principal at the market interest rate. In June 2012, the Small Commercial Energy Efficiency Program made On-Bill Recovery financing available to eligible small businesses and not-for-profits that have a utility account with one of the following participating utilities: Central Hudson Gas and Electric, Consolidated Edison Company of New York, Long Island Power Authority, National Grid (upstate New York customers only), New York State Electric and Gas Corporation, Orange and Rockland Utilities, and Rochester Gas and Electric Corporation. Customers who take advantage of On-Bill Recovery financing can receive a NYSERDA loan of up to \$50,000 at 2.5% interest to pay for energy efficiency improvements. Customers can then repay their loan through a charge on their utility bill.

When NYSERDA made On-Bill Recovery financing available to eligible small business and not-forprofit customers, the eleven lenders who had originally expressed interest in offering Participation Loans were asked to sign agreements with NYSERDA indicating whether they would offer Participation Loans and/or On-Bill Recovery loans. As of September 30, 2012, four lenders have agreed to offer Participation Loans and On-Bill Recovery Loans, five customer applications have been received, three applications have been approved for financing, and two loans have been issued.

Single-Family Residential. Contractors continue to report strong demand for free/reduced-cost comprehensive home assessments with the program receiving 31,548 audit applications through September 30, 2012. The conversion rate from audit to Home Performance with ENERGY STAR retrofit remains high at 35%. The average cycle time between audit completion to project completion is now at 110 days.

GJGNY audits have lead to 5,554 GJGNY Home Performance with ENERGY STAR project completions through September 30, 2012. These projects are anticipated to save 2,562 MWh and 201,829 MMBtu

⁹ Building owners participating, or who have participated in the MPP, may be eligible for the GJGNY reduced interest financing. For more information, please visit the <u>GJGNY Multifamily Building Owner Financing</u> section of NYSERDA's website.

annually. Of the GJGNY program-to-date completions, 1,657 have been for low-income Assisted Home Performance with ENERGY STAR customers. A recent evaluation¹⁰ indicates that additional audit recipients are having work performed outside of the Home Performance with ENERGY STAR Program, and these completions are not included in the numbers above.

Multifamily Residential. The Multifamily audit process is being streamlined to allow more small, 50 units or less, buildings to access the MPP program. GJGNY provides funding for Multifamily Performance Program (MPP) audits and financing. Through September 30, 2012, the MPP GJGNY audit program completed 106 audits. Thirty-eight projects are under contract to have measures installed. Energy savings associated with measures installed through September 30, 2012 total 7,956 MWh and 115,270 MMBtu per year.

Small Business and Not-for-Profit. GJGNY energy assessments are offered statewide at no charge to small businesses and not-for-profits with an average electric demand of 100kW or less and ten employees or less. As of September 30, 2012, 1,224 GJGNY assessments have been completed.

Workforce Development. NYSERDA Workforce Development (WFD) efforts funded under GJGNY are aligned with program strategies that promote the widespread implementation of energy efficiency and clean energy measures. The WFD program is designed to help provide meaningful training opportunities for disadvantaged workers, long-term unemployed or underemployed people, and new workforce entrants.

Workforce training initiatives are underway to assist people with the processes of career planning, training, certification, and identifying energy employment opportunities. One example is Syracuse University's Southside Innovation Center (SSIC), which is offering energy efficiency training to disadvantaged city residents. Program participants learn about construction, weatherization and energy efficiency within the context of small business development and entrepreneurship. The SSIC is also home to a business incubator program where aspiring entrepreneurs can receive support while developing their businesses. A number of program participants have expressed interest in pursuing business development in home energy efficiency.

Support for Curriculum Development has helped several training providers to expand their curriculum to meet industry needs. For example, LaGuardia Community College is under contract to develop and implement *Carreras Verdes: Green Jobs for Latino New Yorkers*, a pipeline program that will educate, train, and connect 120 Spanish-speaking individuals with jobs in green building maintenance. The foundational component of *Carreras Verdes: Green Jobs for Latino New Yorkers* is the GPRO: Green Professional Building Skills Training certification program. GPRO is a series of courses and certificate exams that instruct workers who build, renovate, and maintain buildings the principles of sustainability combined with trade-specific green construction knowledge. GPRO Certificate Holders are primed to work in accordance with new and changing regulations affecting sustainability and to meet the expectations of owners and tenants who prioritize healthier, environmentally responsive, and energy-efficient homes and offices.

Solar thermal training is under development and classes have been scheduled at Ulster Boards of Cooperative Educational Services (BOCES), Monroe Community College, Sullivan County BOCES, and the State University of New York (SUNY) Canton to prepare workers to install solar thermal technology in homes and small business.

¹⁰ A copy of the evaluation report can be found on <u>nyserda.ny.gov</u>

Under its on-the-job training (OJT) initiative, NYSERDA provides stipends for OJT and classroom training to ensure workers are prepared to provide quality work based on sound principles Through September 30, 2012, NYSERDA has committed over \$644,000 through GJGNY to support OJT for businesses employing workers in need of new skills. Seventy-four people have been hired or promoted to higher skill positions with use of these funds. Twenty-eight eligible employers have been assisted as they seek to train workers needed for energy efficiency and solar thermal installation work.

GJGNY Outreach and Marketing. NYSERDA's Outreach staff continues to work with the 19 competitively selected Community Based Organizations (CBOs) and NYSERDA's implementation contractor, Conservation Services Group (CSG), to educate and enroll customers in NYSERDA's audit and workforce programs. Through September 30, 2012, 89 residential retrofits have been completed through CBO efforts. Additionally, CBOs have been referring clients to the Department of Labor (DOL) for training.

Training for the CBOs selected from RFP 2327 was held in New York City in October, 2012. The training offered sessions on the core NYSERDA programs, including financing, as well as an overview of the systems used within the program.

NYSERDA continues to provide ongoing CBO training through monthly webinars, and has updated the SharePoint site to develop a more efficient method for NYSERDA staff to extract CBO reports and data in aggregate.

The GJGNY marketing program focused on core tools for marketing the Outreach program including an updated Financing Fact sheet that addressed changes to the residential financing options, CBO case studies that highlight customers that have accessed the programs and the financing options, CBO print ads that were placed in community newspapers and web banners that are being used on a variety of websites including key partner organizations, and regional workforce brochures that highlight the continuum of local training programs in the community and provides a list of facilities that offer programs.

Evaluation. Evaluation staff finalized the Process and Market Characterization and Assessment of the residential 1- to 4-family sector. Summary findings of this study¹¹ were presented to the Advisory Council at the September meeting.

Planning is also underway to assess the evaluation needs of the other program areas including the jobs impacts from the GJGNY program. Evaluation staff introduced approaches to evaluating jobs impacts at the September Advisory Council meeting. An Advisory Council Working Group was established to further discuss the evaluation of jobs impacts.

4.1.2 Residential Efficiency Services

NYSERDA currently offers a suite of programs that provide comprehensive energy services for single and multifamily existing buildings and new construction, including low-income households. In addition to energy savings, these programs provide significant health and safety benefits through comprehensive testing and verification, improved air quality, and improved comfort. Historically, NYSERDA has been able to use limited funds for gas efficiency measures, primarily for low-income consumers, in select gas utility service territories.

¹¹ This report is available on <u>nyserda.gov</u>

The addition of the Residential Efficiency Services programs allows NYSERDA to use RGGI funds for fossil-fuel based measures and renewable energy measures not eligible for System Benefits Charge (SBC) and Energy Efficiency Portfolio Standard (EEPS) incentives. Coordination of these funding sources expands the number of households served and ensures that opportunities for carbon reduction measures are not lost. The Residential Efficiency Services program seeks to address environmental justice issues by directly targeting outreach to environmental justice communities and by referring CBOs that address environmental justice issues to appropriate programs.

Multifamily Performance Program. The Multifamily Performance Program (MPP) serves residential buildings with five or more units. RGGI funds are used to supplement the program's current SBC and EEPS funding streams. Specifically, these funds are targeted at reducing oil, non-firm natural gas, steam, and propane energy use in multi-unit residential buildings and increasing the efficiency and performance of space and domestic water heating systems, ventilation systems, and building enclosures through system replacement and optimization.

All buildings receive program support for energy audits to determine what measures are cost effective, expected energy savings, and the costs to install them. Projects also receive implementation incentives. Sixty percent of the program funds are targeted to low-income and affordable housing. NYSERDA will coordinate closely with the Weatherization Assistance Program (WAP) to ensure the most effective use of RGGI funds.

Through September 30, 2012, RGGI funds supported 32 completed energy-efficiency projects that are expected to save a total of 3,692 MWh and 178,006 MMBtu per year.

Multifamily Carbon Emission Reduction Program. The Multifamily Carbon Emissions Reduction Program (MCERP) is currently providing financial assistance and technical support to owners of multifamily buildings converting their heating systems from #6 fuel oil to cleaner fuel alternatives. Less carbon-intensive fuels include #2 fuel oil, biodiesel and biodiesel blends, natural gas, and renewables (geothermal, solar thermal). This program was positioned to help encourage early adoption of the City of New York's phase-out of #6 fuel oil and early compliance with city-level legislation (Int. 194-2010), that requires all buildings that burn #6 fuel oil to switch to #4 oil or a cleaner equivalent (based on particulate parts per million). Converting #6 fuel oil heated buildings to cleaner fuels will reduce carbon emissions, improve air quality, and produce positive public health benefits.

MCERP launched on April 4, 2011. By June 30, 2011 nearly all of the total \$6.5 million in RGGI funding was allocated to 190 conversion projects. This funding is anticipated to serve over 30,000 multifamily units in over 300 buildings. This program was available to the entire state, but only five applications came from areas outside of the five boroughs of New York City; four from Westchester County and one from Nassau County.

Through September 30, 2012, MCERP provided over 1,500,000 to 32 projects that completed their conversion processes. These funds helped to offset the 56,439 tons of CO₂ that otherwise would have been emitted over a ten year period if these buildings had not switched from #6 oil to a cleaner burning alternative.

*EmPower New York*sm. EmPower New YorkSM (EmPower) provides cost-effective energy reduction services to households with incomes at or below 60 percent of the State Median Income. RGGI funding permits cost-effective oil and propane-efficiency measures such as insulation, blower-door assisted air sealing, and heating systems repair and replacements. All households meeting the income eligibility requirements will be eligible to apply for heating efficiency assistance. NYSERDA will continue to

coordinate closely with the Weatherization Assistance Program (WAP) to ensure effective use of RGGI funds.

Through September 30, 2012, 490 energy efficiency projects were completed and are projected to save a total of 11,872 MMBtu per year.

Home Performance with ENERGY STAR[®]. Home Performance with ENERGY STAR (HPwES) is a comprehensive energy efficiency services program for existing one-to-four family homes. The program uses a network of service providers accredited by the Building Performance Institute (BPI) to perform diagnostic testing on the home, recommend improvements, determine the payback period for those improvements, and install improvements selected by the homeowner.

The HPwES Program uses RGGI funds for cost-effective oil and propane efficiency measures, such as replacing inefficient oil and propane heating equipment and other measures that have a direct impact on reducing oil and propane consumption. Through September 30, 2012, 1,122 energy efficiency projects were completed, which are projected to save approximately 103 MWh and 30,296 MMBtu per year.

Green Residential Building Program. The Green Residential Building Program (GRBP)¹² is a market transformation initiative designed to change the building practices of the residential construction industry for single-family homes and multifamily homes with up to eleven dwelling units. The GRBP offers incentives to building owners who build and obtain certification that their newly constructed residences meet or exceed Leadership in Energy and Environmental Design (LEED) or National Green Building Standard guidelines, as well as other GRBP program-specific energy efficiency and health and safety requirements. Buildings meeting GRBP requirements will help to reduce energy use and greenhouse gas emissions, save water and other natural resources, use sustainable building materials, reduce waste, and improve indoor air quality. The GRBP provides an innovative approach to program design and is the second statewide program in the country to offer direct financial incentives to building owners for certified green residential buildings.

Through September 30, 2012, the GRBP has received 265 incentive applications for 265 residential buildings; 122 of these buildings received incentives paid with RGGI funds.¹³ Most projects that receive GRBP funding also receive incentives through NYSERDA's New York ENERGY STAR Homes Program, such that the projects' energy savings may not be solely attributable to the GRBP. The GRBP is an important addition to NYSERDA's suite of residential programs, and has helped effectuate energy savings of approximately 428 MWh of electricity, 6,835 MMBtu of natural gas, and 1,172 MMBtu of propane per year.

Integral to the GRBP's market transformation approach is the need to increase the awareness of, and demand for, comprehensive building performance services while simultaneously building a network of trained, certified Technicians (building performance evaluators). Through September 30, 2012, 19 Technicians have been approved for program participation to verify GRBP building eligibility.

Solar Thermal Incentive Program. RGGI funds will support incentives for the installation of solar thermal systems to replace fossil-fuel domestic hot water systems. Incentives will be available for new and existing multifamily and single-family buildings. Incentives also will be fully coordinated with the MPP,

¹² Public Authorities Law Section 1872(4) directs NYSERDA to create and administer a green residential building program in New York.

¹³ Energy savings associated with these incentives and projects are currently captured in the System Benefits Charge and Energy Efficiency Portfolio Standard progress reports and are not represented within this report.

HPwES, the New York ENERGY STAR Homes Program, and the Solar Thermal Incentive Program funded by the Renewable Portfolio Standard.

The Program Opportunity Notice for the Solar Thermal Incentives (PON 2149) was released on December 10, 2010. Currently there are 83 approved installers. The Solar Thermal Program has received a total of 87 project applications, six of which have since been cancelled. The remaining 81 projects represent RGGI-funded incentives totaling \$676,737. The current PON 2149 incentive budget is \$861,609, all of which has been committed to Solar Thermal projects. The \$861,609 budget represents an increase from the previous \$780,935 budget due to and additional \$80,674 transferred from the Solar Photovoltaic (PV) budget. This funding will be used for solar thermal systems that can displace between 50% and 80% of the fossil fuels used to produce domestic hot water.

As of September 30, 2012, 60 solar thermal projects had been installed and are anticipated to save a total of 1,449 MMBtu annually.

4.1.3 Municipal Water and Wastewater Program

The purpose of the Municipal Water and Wastewater program is to reduce energy use through energyefficiency and process improvement measures. The Municipal Water and Wastewater program offers coordinated assistance designed to achieve cost-effective CO₂ reductions by providing technical support and implementation assistance to existing facilities and new construction projects.

Wastewater Energy Efficiency Program (WWEP). The Wastewater Energy Efficiency Program (WWEP) provides a unique opportunity to coordinate RGGI climate change goals and funding with US Environmental Protection Agency (EPA) goals as well as funding while installing infrastructure that will improve the environment and keep New York State waters clean and healthy. This program is comanaged by the New York State Environmental Facilities Corporation (EFC) and NYSERDA. EFC has secured Green Project Reserve Funds offered by the EPA that will bolster efforts to finance water and wastewater infrastructure via the Clean Water State Revolving Fund (SRF) Program. Plants financed through the Green Project Reserve will be constructed energy efficiently, thus minimizing carbon emissions and improving their economic and environmental performance.

WWEP reviews likely Green Project Reserve projects on the SRF Intended Use Plan, and identifies candidates for energy-efficiency and carbon abatement opportunities. Selected projects receive RGGI-funded technical analysis to identify costs and savings associated with energy efficiency, process improvement, and carbon abatement opportunities, as well as Green Project Reserve grants to cost share plant upgrades. WWEP was selected as one of five national recipients of the States Stepping Forward Program Award for excellence by the American Council for an Energy-Efficient Economy.

Through September 30, 2012, NYSERDA and EFC continued to initiate outreach to municipalities in order to discuss the WWEP and the benefits of participation in the program. Cumulatively, RGGI funds supported the technical energy analyses of 54 municipal wastewater treatment plants. Once installed, the measures currently recommended by the analyses are projected to save a total of 38,379 MWh and 54,355 MMBtu annually. One technical energy analysis is ongoing.

4.1.4 Industrial Process Improvement Program

The Industrial Process Improvement program is a longer-term initiative that will support development and demonstration of technologies with substantial greenhouse gas (GHG) reduction potential and technologies that are relevant to New York State manufacturing industries and building systems. Funded

projects will focus mainly on innovations that reduce the use of fossil fuels, have high replication potential for New York State's manufacturing base, are likely to be cost effective, and are presently not supported under SBC programs. For Industrial Process Improvements, projects will focus on technical innovations, including thermal-efficiency improvements for fossil-fuel based processes and alternative processes that eliminate the use of fossil fuels directly and indirectly for technologies that bring about thermal destruction of byproducts. Projects also may include changes in material input and development of advanced controls provided they directly bring about GHG reductions.

NYSERDA completed a competitive PON for Ultraviolet Light and Electron Beam Process Innovation and Market Transformation (PON 1641) and selected projects for RGGI funding. Twelve proposals were received and RGGI funding was approved for three projects that requested a total of \$888,610. While project contracting was ongoing, two proposers retracted their projects. Consequently, NYSERDA has contracted with the remaining project in the amount of \$547,487.

NYSERDA completed a competitive solicitation (RFP 2413, issued in January of 2012) using a newlyrefined strategy for Accelerating the Commercialization of Industrial Technologies (ACIT) focusing specifically on innovative technologies that have high replication potential for New York's manufacturing base. The program is funded at a \$5 million level, \$3.04 million of which is RGGI funded. Several NYSERDA Research and Development contractors' technologies have been successfully demonstrated, and have existing business and marketing plans, but are not yet accepted by the marketing place. RFP 2413 invited these contractors to conduct multiple full-scale demonstrations of their proposals, with the intention of helping that technology establish a fleet of installations to get its "initial toe hold" in the marketplace, while capturing important lessons learned that will help encourage further replication. To maximize potential benefits to NYS, contractors' technologies are selected competitively based on a range of factors, including, but not limited to: energy and CO₂ reduction potential, technical integrity, economic potential, and replicability. The program requires each industrial demonstration site to involve a NYS engineering consultant, who will serve as a "commissioning agent," involved with the demonstration from start to finish. This requirement is expected to increase project success rate and enhance education and replication opportunities. All commissioning agents and demonstration site staff associated with a specific technology will meet regularly to share lessons learned and develop a "best practices" guidebook to accelerate transition of the technology to NYSERDA deployment programs and direct market uptake. The fleet of demonstrations for a given technology will have staggered starts, thus providing critical opportunity for knowledge to pass from demonstration to demonstration and into the wider marketplace. Aggressive technology transfer that includes testimonials from site personnel and commissioning agents will help establish credibility, minimize risk, and encourage the industrialcustomer base to adopt innovative technologies. Four proposals were received and RGGI funding has been contracted for one project that requested and has been awarded \$1,848,637.

NYSERDA completed both rounds of a competitive solicitation (PON 2414, issued in March 2012, with due dates May 9 and September 26, 2012) for Innovation in the Manufacturing of Clean Energy Technologies (IMCET) focusing specifically on developing improvements to manufacturing processes that are used to mass-produce clean energy products. IMCET is a strategic companion to NYSERDA's vast efforts to improve performance of clean energy products because it improves their manufacturability in order to produce them in the most efficient manner and thereby lower the cost of goods sold, which improves their market acceptance. The program was initially funded at a \$2.5 million level, and a supplemental fund, consisting of \$1,013,760 of RGGI funds has been added to support meritorious projects from the first round (projects selected in the second round received funds other than RGGI funds). Twenty proposals were received for the first round, eight of which were approved for funding, including three that were approved to receive RGGI funds. Approval is based on their associated reductions in GHG emissions, either at the factory where the clean energy product is made, or due to the

project's influence on increasing the availability and affordability of the clean energy product and the resultant benefits that accrue when that product is used by customers.

Under the competitive PON 1772, Next Generation of Emerging Technologies for End-use Efficiency, NYSERDA funded four projects with \$1,042,381 in RGGI funding. The projects funded included the demonstration of a Smart Grid Ready AC residential Solar System, development of energy efficient power distribution system for Data Centers, a solid state disk based energy-efficient storage system for servers, and the demonstration of performance of fisonic devices for steam customers. All four projects have been contracted. The GE AC residential solar system project successfully demonstrated the reduced cost of a PV solar system using AC micro-inverters, a novel racking system, and non-traditional installers (roofers). The project to develop an energy efficient power distribution system using cryogenic cooling was terminated based on near term technical and economic feasibility. The two remaining projects are underway with results expected in early 2013.

4.2 Transportation

4.2.1 Transportation Research

The goal of the Transportation Research Program is to commercialize technologies, products, systems, and services that provide superior GHG reduction performance and cost-per-ton values. Activities include product development, field testing, performance validation, policy development, and business assistance associated with emerging products that provide verified GHG benefits.

RGGI funding was used for ten contracts in the transportation arena. These projects range from electric vehicle infrastructure, vehicle components and new fuels, as well as transportation optimization systems for both roadways and airports. Anti-idling systems for NYC ferry boats are also under development. Our most recent contract commercializes a rail car thermal imaging system. Such a system will improve the efficiency and safety of rail by early detection of worn breaks and wheel bearings. During the third quarter of 2012, the Federal Highway Administration selected a NYSERDA funded data terminal as part of a Connected Vehicle Safety Pilot Program. The data terminal will be used in commercial vehicles to communicate vehicle status and road condition to and from other vehicles and enabled infrastructure. A pilot is now underway. In other projects, eight plug-in vehicles are now available in rental agencies around the New York City Metro area. Details of vehicle utilization will be collected for further reporting. NYSERDA has contracted a combined \$1.5 million toward these efforts.

4.3 Power Supply and Delivery (PSD)

The objective of the two PSD programs is to help reduce greenhouse gas (GHG) emissions from the electric power sector in New York State. The initiative has both near-term and long-term components that will support a portfolio of diverse projects relating to electric power generation, transmission, and distribution systems. These projects will reduce GHG emissions throughout the sector and include the implementation of an integrated strategy enabling smart-grid functionality and maintenance of a diverse portfolio of efficient generation resources. The PSD programs are designed to simultaneously maintain system reliability, safety, and security.

4.3.1 Statewide Photovoltaic Program

The Statewide Photovoltaic Program focuses on reducing GHG emissions in the short term by helping establish a sustainable market for solar energy throughout New York State that includes targeted financial incentives. The program supports end-use solar installations for commercial, industrial, and residential

customers as well as electric utility applications to improve the performance of distribution circuits and reduce peak electric load in critical load pockets.

Through September 30, 2012, the Statewide Photovoltaic Program supported the installation of 366 solar photovoltaic systems with a total capacity of approximately 3,475 kW. It is estimated these systems will produce 4,278 MWh of electricity annually.

4.3.2 Advanced Power Technology Program

The Advanced Power Technology Program (APTP) is designed to reduce GHG emissions in the long term. The program has two RGGI-funded focus areas: (1) advanced renewable energy, and (2) carbon capture, recycling, and sequestration. Other advanced power generation systems and technologies may be explored in the future.

Advanced Renewable Energy. The Advanced Renewable Energy component of the APTP supports projects that foster the market introduction of a broad range of promising renewable energy technologies in New York State, including advanced biomass, tidal and off-shore wind technologies.

Five contracts are assessing renewable power generation technologies, including anti-reflective coatings and nano-conductors for photovoltaic sources, solar thermal generation, and a wind plant analyzer. A completed study has taken stock of small scale hydro sites for NYS with recommendations for further development. All of the \$1.7 million allocated to APTP has been invoiced.

Five million dollars of additional funding was approved in June for a new Photovoltaic Manufacturing Consortium (PVMC). Although no money has been invoiced, a kick off meeting and two technical meetings have already occurred. In addition, a series of technical analyses that characterize and establish, on a preliminary basis, the suitability of an ocean site area for a wind energy project were conducted on behalf of a collaboration among the New York Power Authority, the Long Island Power Authority, and Con Edison to procure energy from a 350-700 MW offshore wind farm located in the New York City-Long Island harbor-bay area (also known as the NY Bight). These studies are intended to establish a baseline of knowledge of geophysical features, meteorology, climatology, and natural resources/biota in the affected ocean tract, and will provide some basis for supporting future leasing applications and project siting and development activities.

Carbon Capture, Recycling, and Sequestration. The Carbon Capture, Recycling, and Sequestration component of the APTP will focus on assessing and demonstrating carbon capture, reuse, compression, and transport technologies; characterizing and testing the state's geological sequestration potential; and supporting the development of carbon capture and sequestration demonstration projects in New York State.

The TriCarb Consortium for Carbon Sequestration project continued work to identify potential sequestration targets in Rockland County. The project, which is also supported by the U.S. Department of Energy (USDOE), is performing a detailed geological analysis of Rockland County's Newark Basin bedrock. Analysis of data and cores taken from the borehole drilling is ongoing, including thin-section analysis and preliminary geochemical reaction experiments.

4.4 Multi-Sector Programs

4.4.1 Clean Technology Industrial Development

The Clean Technology Industrial Development Program seeks to create, attract, and grow industries in New York State that can exploit emerging business opportunities in clean energy and environmental technologies while supporting the goal of carbon mitigation. Key elements of the program include advanced industrial research and development of innovative technologies, providing risk capital and business assistance, and development of advanced research centers.

NYSERDA contracted with five companies for awards through the Renewable, Clean Energy and Energy-Efficiency Product Manufacturing Incentive Program (PON 1176). The program provided a total of \$7.5 million, with the majority of funding tied to manufacturing the defined products in New York State. In addition, NYSERDA selected nine companies to receive targeted business development funds, a total of \$750,000, to support activities such as business plan development, go-to-market strategy, freedom-to-operate analysis, capital raising, supply chain development, quality management system development, or channel development. Also, a small project was contracted to provide linkages between the global investment community and early-stage clean energy technology companies in New York State.

4.4.2 Climate Research and Analysis

The Climate Research and Analysis Program supports research studies, demonstrations, policy research and analyses, and outreach and education efforts. Through these activities, the program addresses critical climate change related problems facing the State and the region, including the needs of environmental justice communities.

In the third quarter of 2012 the project entitled, "Responding to Climate Change in New York State" (aka ClimAID) continued to receive significant press, again because New York State and much of the nation have been experiencing many of the climate-related events identified in the ClimAID report as more likely to occur as a result of a changing climate (extended droughts, higher temperatures, more intense precipitation events). NYSERDA staff have also begun climate change adaptation outreach activities with local groups in the state, as a follow-up to the ClimAID report.

In the second quarter of 2012 thirty seven proposals were received that build on the ClimAID report and focus on research related to climate adaptation. In the third quarter, eleven of the proposals were approved and are currently being contracted. A new solicitation will soon be released that seeks proposals to support the design, development, implementation, management and maintenance of a web-based New York Climate Change Science Clearinghouse (NYCCSC). The NYCCSC will access the extensive knowledge base of New York State's public and private academic institutions and provide user-friendly, web-based public access to data and literature related to climate change science that is relevant to New York State. A competitive solicitation targeting research needs greenhouse gas reduction strategies is planned to be issued in early 2013.

Climate-related research also continues in support of the New York State Energy Plan, and the State's Climate Action Plan¹⁴.

¹⁴ For more information, see the <u>New York State Climate Action Plan Interim Report</u>

4.4.3 Cleaner Greener Communities

The Cleaner Greener Communities Program was announced by Governor Cuomo in his 2011 State of the State address. It builds on the Climate Smart Communities Program, which provides enhanced support for development and implementation of regional sustainability plans. This ensures that the State's ongoing and substantial investments in infrastructure help to move New York State as a whole, toward a more environmentally sustainable future. The program encourages communities to use public-private partnerships and develop regional sustainable growth strategies in areas such as emissions control, energy-efficiency, renewable energy, low-carbon transportation, and other carbon reductions. The program emphasizes activities such as revitalizing urban areas through smart growth, creating green jobs, building green infrastructure, and strengthening environmental justice and protection.

The program has two primary components: (1) development of, and updating to, regional sustainable growth plans; and (2) implementation of the sustainability plans. Ten region-specific planning teams have been competitively selected to develop Regional Sustainability Plans, one for each of the ten Regional Economic Development Council regions. Seven regions received awards in the first round of planning grant funding in December 2011 and the remaining three regions received awards in the second round of funding in May 2012. All ten of the plans are expected to be completed by the end of the first quarter of 2013. Each team is working closely with their corresponding Regional Economic Development Council(s) to ensure that the region's sustainability goals are coordinated with their Regional Economic Development Plans.

The implementation component of the program is currently being designed and is expected to launch in 2013 after the regional plans have been completed. Support will be provided for competitively selected project proposals that address specific items within the regions' sustainability plan. Projects that have garnered community buy-in, as well as those that include public-private partnerships, will be encouraged. Consideration will be given to support implementation projects in multiple types of communities (rural, suburban, and urban communities). RGGI proceeds can be used for the implementation of plan elements that fall within the scope of the permissible use of RGGI proceeds (energy efficiency, renewable energy, and innovative carbon reduction programs). Approximately 90 percent of the incentives budget will be used to support the implementation component of the program.

Outreach and community support for the overall Cleaner Greener Communities initiative will be provided in part through Climate Smart Communities and Energy Smart Communities. To date, all ten regions have been awarded grants for the development of, and updating to, regional sustainability plans.

Climate Smart Communities. The Climate Smart Communities (CSC) Program was established in 2009 by the State Departments of Environmental Conservation (DEC) and State (DOS), the Public Service Commission (PSC), and NYSERDA. It operates under the joint management of DEC and NYSERDA. The CSC Program was designed to strengthen and enhance the participating agencies' outreach to local governments (counties, towns, villages, and cities). NYSERDA has six firms under contract to provide technical assistance services through the CSC Regional Coordinators Pilot Program. These firms engage local communities in climate action planning, greenhouse gas emissions inventories, energy conservation, use and encouragement of low-carbon energy, improved waste management, reduction of transportation emissions, and adaptation to climate change through land-use and other planning. Regional greenhouse gas inventories are scheduled to be completed in the fourth quarter of 2012. In-person consultations with individual communities have commenced, kicking off the technical assistance services that will continue for a contract period of up to three years.

Energy §mart Communities. The Energy \$mart Communities (E\$C) Program has established partnerships throughout the State, facilitated by E\$C Coordinators to perform outreach and education, as well as to promote program opportunities to residents, businesses, institutions and governments within their region. The E\$C network has been successful in educating New Yorkers about the role that energy efficiency and renewable power can play in reducing energy costs and providing clean, reliable energy for homes, schools and workplaces. The emphasis of the program will shift to support Governor Cuomo's Regional Economic Development Council initiative by aligning the program territories geographically and providing direct support to advance the strategic priorities and regionally significant projects identified in the region. Through this new alignment with the Regional Councils, NYSERDA can provide a greater level of education and adoption of energy-efficiency practices at the community level. Through September 30, 2012, the E\$C network has facilitated over 1,700 meetings, referrals or projects; created 204 partnerships; and participated in 642 community events that have resulted in increased awareness and participation. E\$C is supported jointly with RGGI and SBC funds.

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise and funding to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce their reliance on fossil fuels. NYSERDA professionals work to protect our environment and create clean-energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York since 1975.

To learn more about NYSERDA programs and funding opportunities visit nyserda.ny.gov

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State of New York Andrew M. Cuomo, Governor

New York's RGGI-Funded Programs Status Report

Quarter Ending September 30, 2012

New York State Energy Research and Development Authority Francis J. Murray, Jr., President and CEO