New York State Energy Research and Development Authority

Green Jobs – Green New York November 2015 Monthly Update

Period ending November 30, 2015

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Program Description

Green Jobs – Green New York provides funding for energy assessments, low-cost financing for energy upgrades, and technical and financial support to develop a clean energy workforce. GJGNY is a statewide effort to strengthen communities through energy efficiency and uses constituency-based organizations to support program outreach in underserved communities. GJGNY enables New Yorkers to make a significant difference in homes, businesses and neighborhoods—making them more comfortable, more sustainable, and more economically sound. GJGNY is administered by NYSERDA and made available by the Green Jobs – Green New York Act of 2009.

1 Workforce Development

The Green Jobs – Green New York Program supports a broad range of education and training programs aimed at creating an experienced green collar workforce. This workforce will have the relevant skills and credentials needed to support New York State's growing clean energy economy. The workforce training programs help meet the demand for energy efficiency and renewable energy measures and technologies. Through public-private partnerships, Workforce Development Programs fund the development and delivery of cutting-edge training programs, and provide financial support to those who wish to pursue new career training, professional certifications and critical on-the-job training.

Training Program Updates

Clean Energy Technical Training

Through November 2015, NYSERDA's GJGNY training partners have trained over 3,800 individuals in courses including solar thermal installation, introductory photovoltaic training, advanced air sealing, pressure diagnostics, Building Performance Institute (BPI) Basic Air Sealing and Insulation, oil heat technology, and thermography. Training partnerships include public and private educators, professional associations, and not-for-profits. All of NYSERDA's GJGNY-funded training partnership agreements will conclude by the end of 2015. The Clean Energy Certifications and Accreditation Incentives Program Opportunity Notices (PON 2397), an open enrollment solicitation providing BPI exam fee reimbursement to individuals across New York, will remain open through 2016 or while funds remain available.

2 Outreach and Marketing

GJGNY Outreach and Marketing provides for community-based outreach, enabling one-on-one assistance with the process of participating in the GJGNY Program. This, combined with both print and electronic statewide marketing initiatives, increases the reach of the program, particularly among disadvantaged populations and those not traditionally participating in energy-efficiency programs.

2.1 Outreach Activities

Constituency-based organizations (CBOs) continue to assist customers to access the Home Performance with ENERGY STAR program (HPwES) offered through Green Jobs-Green New York. Through November 2015, CBOs are responsible for 6,121 completed assessments resulting in 1,879 completed retrofits. Approximately 50 percent of those retrofits were for Assisted HPwES customers who have a household income of up to 80 percent of the county median income, which is the target market for CBOs. The remaining 50 percent of customers reached by CBOs are higher income households.

Figure 2-1. CBO Percentage of GJGNY Completed Assessments.

Figure 2-1 provides percentages of GJGNY residential assessment completions by quarter that were initiated by CBOs versus other sources, such as home performance contractors or online searches.

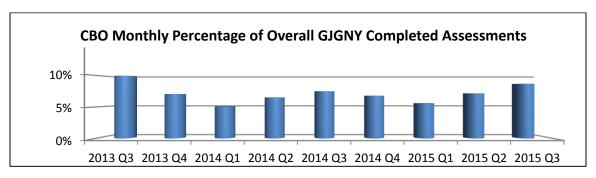


Figure 2-2. CBO Percentage of GJGNY Unit Completions.

Figure 2-2 provides percentages of project (by number of units) completions by quarter that were initiated by CBOs.

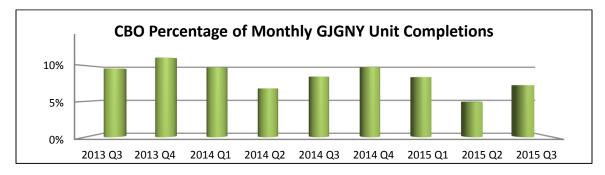
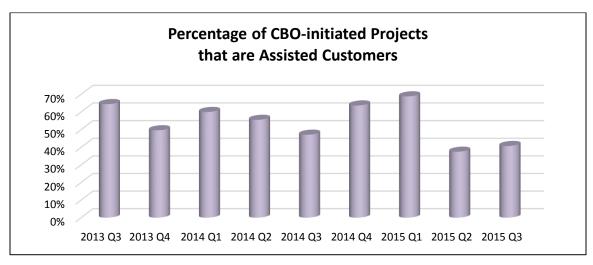


Figure 2-3. Percentage of CBO-initiated Projects that are Assisted Customers.

Figure 2-3 provides percentages of project completions for Assisted Home Performance customers by quarter that were initiated by CBOs.



Innovative Outreach

PUSH Buffalo's small commercial outreach is gaining momentum with 74 small commercial audits completed, 19 small commercial retrofits completed, and 6 projects in the pipeline scheduled for completion in December. PUSH credits their success in small business outreach to the availability of NYSERDA's Small Commercial On-Bill Recovery loan offered through Pathstone Enterprise Center Inc. By partnering with NYSERDA, PathStone Enterprise Center can offer small businesses and non-profits with energy efficiency financing at half the cost of market rate for projects up to \$100,000. Historically, businesses in Buffalo, especially in LMI communities, have found financing energy efficiency projects extremely challenging. When promoting small commercial retrofits, PUSH Buffalo reports small business owners respond favorably to NYSERDA's On-Bill Recovery (OBR) and Smart Energy loan options.

Monthly CBO Downstate Convening

The monthly CBO Downstate Convening was held on November 17, 2015 at El Puente's Brooklyn offices. Training on NYSERDA's Economic Development Growth Extension (EDGE) program and associated staff was provided along with an overview of residential financing offered through New York City Housing, Preservation and Development. Information was shared about the forthcoming

CBO Meetings

In November 2015, one on-site meeting was held with Neighborhood Housing Services of Staten Island (NHSSI) to review outreach capability and plans as well as to discuss training needs.

On November 17, the training and implementation contractor (TIC) participated in a demonstration of the new NY HP Portal CBO Express Audit process and provided feedback on CBO process functionality.

To support CBO outreach for energy audits and residential energy efficiency retrofits, the TIC held the fourth NYSERDA Home Performance with ENERGY STAR® (HPwES) / Constituency Based Organization program coordination meeting on November 18. The agenda included discussion on various aspects of bridging the gaps between CBOs and contractors.

On November 19, RUPCO held their 2nd Annual Mid-Hudson and Westchester Region HPwES Contractor Mixer in Middletown, New York. The goal of the event was to facilitate communication and understanding between RUPCO and the HPwES contractors in the region. RUPCO's presentation included information on the contractual role of the CBO to provide outreach on NYSERDA's residential programs and their obligation to not simply generate leads but to generate retrofits. RUPCO presented information on the GJGNY program and ways they can assist contractors with their stalled leads as well their current partnerships and events at which RUPCO presents Home Performance information to the public. In addition to RUPCO, the TIC and two contactors presented information on RUPCO's partnerships, metrics, and customer relations skills.

One- to Four-Family Residential Buildings Program

GJGNY provides home assessments and financing to support energy efficiency and renewable energy improvements to one-to-four family homes.

NYSERDA's Home Performance with ENERGY STAR® (HPwES) program offers homeowners in New York State a comprehensive approach to improving energy efficiency and home comfort while saving money. Participating Home Performance contractors accredited by the Building Performance Institute (BPI) conduct energy assessments and upgrades. Income-qualified homeowners are eligible for additional incentives to make energy improvements.

The GJGNY loan also supports deployment of solar photovoltaic (PV) through the NY-Sun program, solar thermal (hot water) systems, and certain wood and pellet stove replacements through Renewable Heat NY.

3.1 Home Performance with ENERGY STAR® Assessments

Through November 2015, from the 110,778 approved assessment applications, 84,173 (76 percent) assessments have been completed. In the month of November, 2,488 free/reduced-cost comprehensive home energy assessment applications were received. The Program-to-date conversion rate from assessment to energy retrofit is 31 percent. The 2015 conversion rate from assessment to energy retrofit is 41 percent. The average cycle time between assessment completion to project completion is 110 days.

Table 3-1. Home Performance with ENERGY STAR Assessments.

Table 3-1 provides HPwES monthly and cumulative assessment figures.

Timefram	e	CBO Initiated since 11/1/11a	GJGNY Totals since 11/15/10 b
	Received Audit A	pplications	
Novembe	er	226	2,488
Program to I	Date	9,652	116,799
Average Number of Application	s Received per Month	193	1,931
	Approved Audit A	pplications	
	Free		,
Novembe	er	209	2,180
Program to I	Date	9,090	102,417
	Reduced (Cost	
Novembe	er	14	139
Program to I	Date	517	8,371
Total Approved Audit Application	ons	9,607	110,788
Average Number of Application	s Approved Per Month	192	1,831
	Scheduled /	Audits	
Scheduled Audits as of End of	Current Month	102	6,100
	Completed A	Audits	
		Free	
	November	179	1,631
Goal: (77,500-Audits)	Program to Date	5,781	77,990
Goal. (77,500-Addits)		Reduced C	ost
	November	18	127
	Program to Date	340	6,183
Total Completed Audits		6,121	84,173
Audit Funds Invoiced to Date			\$21,526,400
^a Round 2 CBO production as of 6/1/2012 ^b GJGNY totals since 11/15/10 are inclusi			

3.2 Home Performance with ENERGY STAR® Projects

Of the 23,412 projects completed through HPwES resulting from a GJGNY assessment and/or GJGNY financing, 7,877 (34 percent) projects are associated with income-qualified customers who have a household income of up to 80 percent of the county median income.

In November 2015, there were 563 HPwES project completions, of which 504 (90 percent) were associated with a GJGNY assessment or loan. Thirty-three percent of the November GJGNY HPwES project completions were for income-qualified customers who have a household income of up to 80 percent of the state or county median income.

Table 3-2. Home Performance with ENERGY STAR Projects.

Table 3-2 provides HPwES monthly and cumulative project figures.

Timeframe	CBO Initiated since 11/1/11	GJGNY Totals since 11/15/10 ^a	HPwES Totals since 11/15/10 ^b							
Projects Contracted										
To Date	1,869	24,006	NA							
	Completed Projects/Units ^c									
	Ass	sisted								
November	14 / 15	168 / 173	185 / 190							
Program to Date	796 / 947	7,491 / 7,877	12,847 / 13,404							
_	Mark	et Rate								
November	13 / 13	336 / 339	378 / 381							
Program to Date	864 / 932	15,922 / 16,104	20,547/ 20,782							
Total Completed Projects/Units (Project Goal: 25,000)	1,660 / 1,879	23,413 / 23,981	33,394 / 34,186							

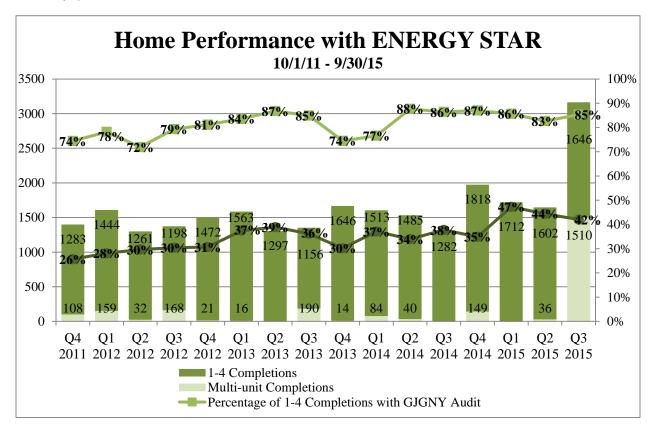
^a Projects completed resulting from a GJGNY Audit and/or GJGNY Financing.

b Total HPwES including GJGNY Projects.

c Projects completed and units served resulting from GJGNY.

Figure 3-1. Home Performance with ENERGY STAR Completions, Quarterly.

Figure 3-1 illustrates trends in HPwES project completions associated with GJGNY assessments or loans, by quarter.



3.3 One- to Four-Family Residential Buildings Financing

GJGNY provides two loan options for consumers: On-Bill Recovery (OBR) loans, which enable customers to make payments through their utility bills; and Smart Energy loans, unsecured loans that are paid back directly to NYSERDA's loan servicing contractor. Both loans offer expanded credit qualification criteria (Tier 2) enabling some applicants who would not qualify for a loan based on more traditional criteria (Tier 1) to qualify for GJGNY loans.

As of November 30, 2015, 11,778 Residential GJGNY Loans have closed to date, comprising of 9,395 Home Performance with Energy Star® (HPwES) loans, 2,379 Photovoltaic (PV) loans, 1 Solar Thermal (ST) loan and 3 Renewable Heat NY (RHNY) loans. Of the 11,778 total loans closed, 14.1 percent are Tier 2 customers, representing 14.0 percent of the total funds, while 85.9 percent are Tier 1 customers representing 86.0 percent of the funds.

Of the 9,395 HPwES loans closed to date, 29.3 percent are for Assisted HPwES customers, representing 21.9 percent of the total funds; while 70.7 percent are for Market Rate customers representing 78.1 percent of the total funds; 14.2 percent are Tier 2 customers, representing 13.7 percent of the total funds, while 85.8 percent are Tier 1 customers representing 86.3 percent of the funds. Of the loans closed for Assisted HPwES customers, 73.7 percent are Tier 1 loans, while 26.3 percent are Tier 2.

Since the launch of On-Bill Recovery, 29.6 percent of the Assisted HPwES customers who access financing use OBR Loans, while 36.3 percent of the Market Rate HPwES customers who access financing use OBR Loans; 30 percent of Tier 2 customers use OBR Loans while 35 percent of Tier 1 customers use OBR Loans.

Table 3-3. Green Jobs-Green New York Financing Details.

Table 3-3 provides cumulative details of the Green Jobs–Green New York financing program. EE= energy efficiency only. PV = PV only. EE & PV = a loan incorporating both energy efficiency and PV. RH = renewable heat (pellet or wood stoves).

GJGNY Loan Type	Applications Received (Number)	Applications Approved (Number)	Loans Closed (Number)	Loans Closed (Dollars)	Loans Awaiting Closing (Number)	Loans Awaiting Closing (Dollars)
EE Smart Energy Loan	13,831	10,014	6,541	\$62,222,792	690	\$6,791,351
EE On-Bill Recovery Loan	8,010	5,411	2,854	\$32,099,487	180	\$2,925,981
Total	21,841	15,425	9,395	\$94,322,279	870	\$9,717,332
PV Smart Energy Loan	2,406	2,207	1,161	\$20,045,336	434	\$7,143,526
PV On-Bill Recovery Loan	3,488	3,004	1,207	\$21,002,935	496	\$8,070,415
Total	5,894	5,211	2,368	\$41,048,271	930	\$15,213,940
EE & PV Smart Energy Loan	67	49	8	\$136,264	3	\$55,886
EE & PV On-Bill Recovery Loan	184	103	3	\$67,843	1	\$21,502
Total	251	152	11	\$204,107	4	\$77,388
RHNY Smart Energy Loan	6	6	2	\$35,500	2	\$26,800
RHNY On-Bill Recovery Loan	1	1	1	\$13,445	0	\$0
Total	7	7	3	\$48,945	2	\$26,800
ST Smart Energy Loan	1	1	1	5,075	0	0
ST On-Bill Recovery Loan	0	0	0	0	0	0
Total	1	1	1	\$5,075	0	\$0
Grand Total	27,994	20,796	11,778	\$135,628,677	1,806	\$25,035,461

Table 3-4. Green Jobs-Green New York Financing Summary.

Table 3-4 provides a cumulative summary of Smart Energy Loan and On-Bill Recovery Loan activity.

Smart Energy		Financing Summary	On-Bill Recovery			
Tier 1	Tier 2	i mancing duminary	Tier 1	Tier 2		
6,602	1111	Loans Closed	3,510	555		
\$70,681,902	\$70,681,902 \$11,763,065 Value		\$46,020,411	\$7,163,299		
\$10,706 \$10,588		Average Loan	\$13,111	\$12,907		
13.0 Years 13.9 Years		Average Term	14.6 Years	14.7 Years		
N/A	N/A	2.99%	23.30%	16.76%		
84.69%	81.82%	3.49%	76.70%	83.24%		
15.31%	18.18%	3.99%	N/A	N/A		
78.	57%	Approval Rate*	76.06%			
16.	86%	Denial Rate*	19.84%			
4.5	57%	Denied Tier 1, didn't pursue Tier 2*	4.10%			
* Does not include applications pending review or withdrawn.						

Figure 3-2 illustrates the rate of applications received for GJGNY Smart Energy Loans and GJGNY On-Bill Recovery Loans, by quarter.

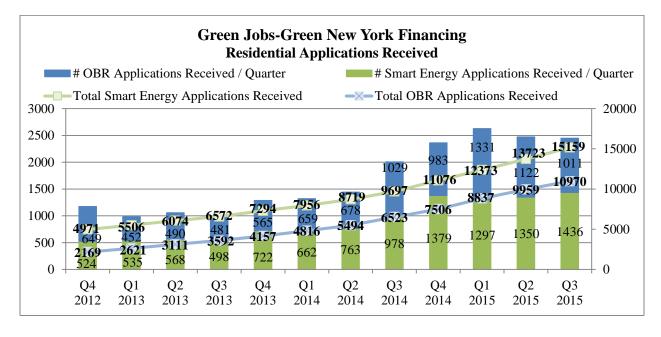


Figure 3-2. Green Jobs-Green New York Financing Applications Received, Quarterly.

Figure 3-3. Green Jobs-Green New York Financing Loans Issued by Type, Quarterly.

Figure 3-3 illustrates the rate of loans issued for GJGNY Smart Energy Loans and GJGNY On-Bill Recovery Loans, by quarter.

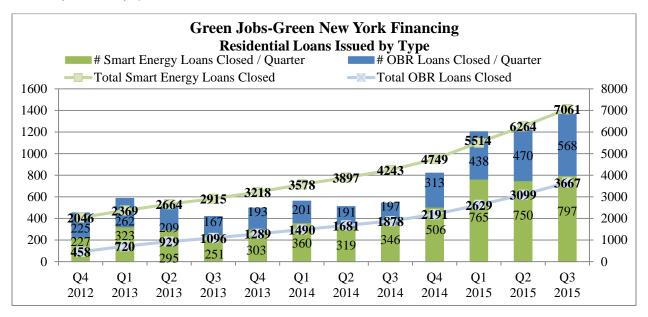


Figure 3-4. Green Jobs-Green New York Financing Loans Issued by Tier, Quarterly.

Figure 3-4 illustrates trends in GJGNY loans issued, distinguished between Tier 1 and Tier 2 loans, by quarter.

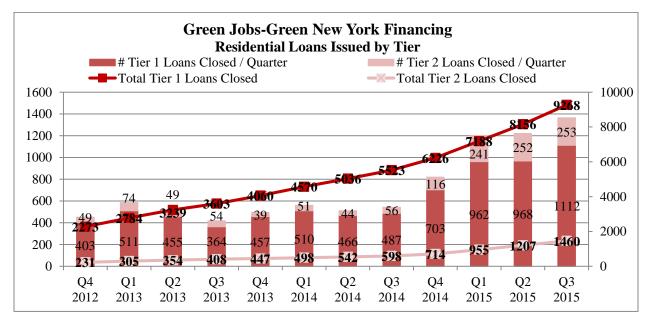


Figure 3-5. Green Jobs-Green New York Financing Loans Denied by Type, Quarterly.

Figure 3-5 illustrates trends in GJGNY loan denials, distinguished between Smart Energy Loans and On-Bill Recovery Loans, by quarter.

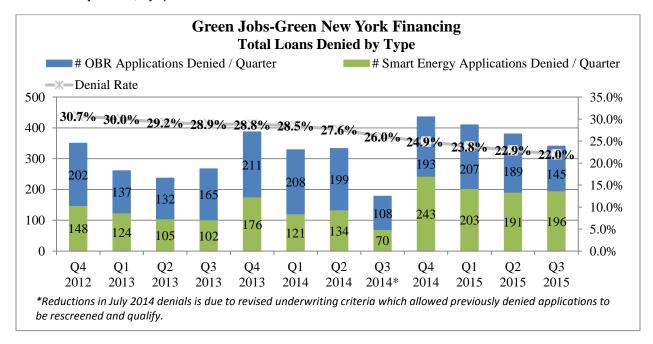


Figure 3-6. Green Jobs-Green New York Financing Loans Denied for Debt-to-Income Ratio, by Region.

Figure 3-6 illustrates regional differentiation for received GJGNY loan applications and loan denial rates. Over time, the loan denial rate across all regions has dropped from 39.8 percent in November 2010 to 21.5 percent in November 2015.

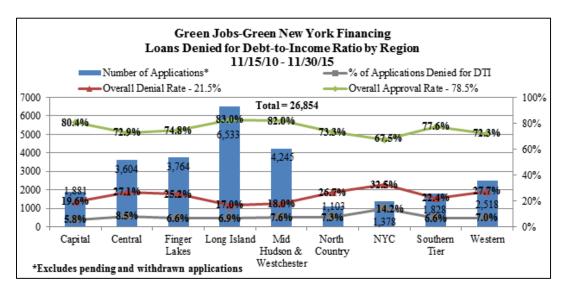


Figure 3-7. Green Jobs-Green New York Financing Percentage of Applications Denied, comparative by quarter.

Figure 3-7 illustrates comparative quarterly changes in loan denial rates. The four regions displayed represent those with the highest denial rates in the program.

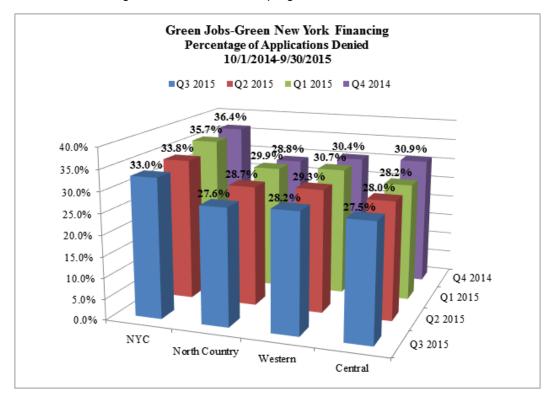


Table 3-5. Green Jobs-Green New York Financing Loans Transferred from OBR to Smart Energy.

NYSERDA allows applicants whose projects are unable to meet the cost-effectiveness requirements of the On-Bill Recovery (OBR) loan product transfer to the Smart Energy loan product. Table 3-5 illustrates the transfer activity between the On-Bill Recovery and Smart Energy loan products. In November 2015, 66 loans were transferred from OBR to Smart Energy. Over the life of the program, 16.9 percent of preapproved OBR loans were transferred to Smart Energy loans.

Smart Energy Loan Status	Cumulative Number of Loans
Pre-Approved	171
Loan Approved	177
Loan Sold	1,214
Loan Withdrawn	105
Loan Denied	17
No Loan - Subsidy Only	51
Total Number of Loans Transferred	1,735

3 Multifamily Energy Performance Portfolio

NYSERDA offers a portfolio of programs and incentives for owners, facility managers, developers, and condo/co-op boards of multifamily buildings with five or more units in New York State. NYSERDA's programs make it easier to assess, fund, implement, and measure energy efficiency upgrades that improve building performance and save money.

4.1 Multifamily Energy Performance Assessments

Through November 2015, from the 333 approved assessment applications, 304 (91 percent) assessments have been completed.

Table 4-1. Multifamily Energy Performance Assessments.

Table 4-1 provides Multifamily Performance monthly and cumulative assessment figures.

Metric		November		Cumulative				
	Affordable Housing	Market Rate Housing	Monthly Total	Affordable Housing	Market Rate Housing	Program Total	Budget/ Goal	
Received Assessment Applications	0	0	0	193	140	333		
Approved Assessment Applications	0	0	0	193	140	333	500	
Assessment Funds Encumbered (\$)	0	0	0	2,342,960	1,120,987	3,463,947		
Assessment Funds Invoiced (\$)	0	0	0	1,291,100	\$694,930	1,986,030	3,000,000	
Completed Assessments	0	0	0	170	134	304	400	
Number of Projects Withdrawing from MPP after Assessment*	0	0	0	17	29	46		

^{*}MPP Projects must achieve a minimum of 15 percent in energy savings. Projects may choose to proceed outside MPP. Some may chose smaller work scopes which will not achieve program standard and thus not be eligible for MPP and some may elect to access utility incentives. If energy efficiency projects are completed, building owners that have an authorized assessment would still be eligible to apply for GJGNY financing.

4.2 Multifamily Energy Performance Projects

Through November 2015, the Multifamily Energy Performance Program has completed 32,894 housing units with installed measures. Of those units with installed measures, 15,539 (47 percent) are associated with affordable housing.

Table 4-2. Multifamily Energy Performance Projects.

Table 4-2 provides Multifamily Performance monthly and cumulative project figures.

Metric		November		Cumulative			
	Affordable Housing	Market Rate Housing	Monthly Total	Affordable Housing	Market Rate Housing	Program Total	
Projects in Pipeline*	0	0	0	193	140	333	
Projects Contracted to have Measures Installed	0	0	0	193	140	333	
Households Associated with Projects Contracted	0	0	0	32,785	32,817	65,602	
Projects with Installed Measures (units)	0	0	0	15,539	17,355	32,894	
kWh Savings of Installed Measures	0	0	0	13,810,878.6	4,103,148.2	17,914,027	
MMBtu Savings of Installed Measures	0	0	0	198,280.1	177,455.9	375,736	
Dollar Savings of Installed Measures	0	0	0	\$9,611,178.24	\$7,147,540.00	\$16,758,718.24	

^{*}Projects that receive GJGNY-supported assessments and/or financing may also receive incentives through the System Benefits Charge (SBC), Energy Efficiency Portfolio Standard (EEPS), Regional Green House Gas Initiative (RGGI), and/or utility programs, such that the projects' energy savings may not all be attributable solely to GJGNY.

^{**}The projects in pipeline program total includes all projects that are part of GJGNY, inclusive of those projects that dropped out.

4.3 Multifamily Energy Performance Financing

As of November 2015, the Multifamily Performance Program has closed 16 loans with a total value of \$10,416,508. NYSERDA's share of that total loan value is \$3,289,451.

Table 4-3. Multifamily Energy Performance Financing.

Table 4-3 provides Multifamily Performance monthly and cumulative financing figures.

Loan Status		November			Cumulative			
	NYSERDA Share of Total Loan Number Value		Total Loan Value	Number	NYSERDA Share of Total Loan Value	Total Loan Value		
Participation Agreements Approved	0	\$0	\$0	21	\$4,403,520	\$9,243,688		
Loans Closed	0	\$0	\$0	16	\$3,438,883	\$10,520,238		

4 Small Commercial Energy Efficiency Program

NYSERDA's Small Commercial Energy Efficiency Program offers financial and technical assistance to help small businesses and not-for-profit organizations improve their energy efficiency and reduce their energy costs. This program offers free assessments to help identify economically viable improvements, (e.g. lighting, motors or thermostats) that may yield substantial annual energy savings and two low-interest loan options to finance energy efficiency projects. The first one is On-Bill Recovery Financing, which makes it possible for small businesses and nonprofits to use the savings on their energy bills to pay for their energy efficiency upgrades. The second one is the Participation Loan, where NYSERDA partners with lenders across New York State to help small businesses and nonprofits access low-interest financing for energy efficiency improvements.

The Small Commercial Energy Efficiency Program continues to improve processes and services that enable Program participants to increase project installations resulting from energy assessments. This includes improving the communication of energy assessment results to small business and nonprofit customers, providing additional follow-up services to support implementation, and increasing outreach to lenders in order to raise lender awareness and increase lender participation in Small Commercial Energy Efficiency Financing made available by GJGNY. In addition, eligible small business and not-for-profit customers participating in NYSERDA's NY-Sun Solar PV Incentive Program can now access low-interest GJGNY financing to install solar PV systems of up to 200 kW.

5.1 Small Commercial Energy Efficiency Assessments

Through November 2015, the Small Commercial Energy Efficiency Program has received 3,962 assessment applications. Of those received applications, 3,616 (91 percent) have resulted in completed assessments.

Table 5-1. Small Commercial Energy Efficiency Assessments.

Table 5.1 provides	Small	Commercial Energ	v Efficionav mont	hly and cumulative	e assessment figures.
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Metric	November			Program Cumulative		
	GJGNY	ARRA*	Monthly Total	GJGNY	ARRA*	Program Total
Received Assessment Applications	52	0	52	3,028	934	3,962
Completed Assessments	56	0	56	2,767	849	3,616

^{*}The GJGNY Act of 2009 restricts the provision of GJGNY-funded energy assessments to small business and not-for-profit organizations with 10 employees or less. American Recovery and Reinvestment Act of 2009 (ARRA) funds were used for eligible small business and not-for-profit organizations that have more than ten employees. ARRA funding expired on September 30, 2013.

5.2 Small Commercial Energy Efficiency Projects

Through November 2015, the Small Commercial Energy Efficiency Program estimates 723 project completions as a result of GJGNY funded assessments.

Table 5-2. Small Commercial Energy Efficiency Projects.

Table 5-2 provides an estimate of Small Commercial Energy Efficiency monthly and cumulative project figures.

Metric	November	GJGNY Program Cumulative					
Estimated Projects Completed*	11	723					
*NYSERDA conservatively estimates that twenty percent of energy efficiency improvements recommended on							

energy assessments are implemented by small business and not-for-profit customers. Estimated projects completed are inclusive of those that used ARRA funds referenced in Table 5-1 above.

5.3 Small Commercial Energy Efficiency Financing

Through November 2015, the Small Commercial Energy Efficiency Program has closed 28 loans with a total value of \$1,478,401. NYSERDA's share of that total loan value is \$790,072.

Table 5-3. Small Commercial Energy Efficiency Financing.

Table 5-3 provides Small Commercial Energy Efficiency monthly and cumulative financing figures.

Loan Status	November			Program Cumulative			
	Number	NYSERDA Share of Total Loan Value	Total Loan Value**	Number	NYSERDA Share of Total Loan Value	Total Loan Value**	
Applications Approved*							
Participation Loans	4	\$59,246	\$118,492	89	\$2,041,717	\$4,355,611	
On-Bill Recovery	1	\$23,590	\$23,590	49	\$1,638,239	\$2,259,372	
Loans Closed							
Participation Loans	4	\$167,075	\$334,150	23	\$766,890	\$1,622,294	
On-Bill Recovery	4	\$128,924	\$128,924	15	\$389,852	\$389,852	
Total**	8	\$295,999	\$463,074	28	\$790,072	\$1,478,401	

The Small Commercial Energy Efficiency Financing Program has 13 participating lenders.

^{*} Customer applications are assessed for both Participation Loan and On-Bill Recovery Loan eligibility prior to approval. Approved application values are inclusive of loans that have moved forward to closure.

^{**}The total loan value represents the total value of the loan issued by the lender to the borrower. The total loan value may include financing for non-energy efficiency projects. NYSERDA's share of the total loan value represents 50 percent of the total energy efficiency project cost or \$50,000, whichever is less.

5 Evaluation

The overarching goals of Evaluation are to provide objective and credible information that supports optimum program operation and outcomes, as well as program accountability. Three major types of evaluation are implemented for the GJGNY program. Process evaluation provides information to support program operations by addressing program efficiency and effectiveness, satisfaction and barriers to participation, among other issues. Impact evaluation provides information to help understand actual program impact and improve energy impact estimates, including economic, environmental, and non-energy benefits; in doing so it supports program accountability. Market evaluation also provides information to support program operations and accountability by characterizing and assessing target markets for programs.

Evaluation Activities Currently Underway

Three evaluations are in various stages of implementation and nearing completion.

- The evaluation of the Home Performance with ENERGY STAR (HPwES), which includes a process evaluation, market characterization, and an analysis of CBO efforts is nearing completion. Preliminary results were presented to program staff for review and comment. Comments received will be addressed in the final report.
- As a part of the impact evaluation of the HPwES program, the evaluators are seeking to assess the
 energy-related impacts of GJGNY audit-only participants. Results of the pre- and postconsumption billing analysis, which assessed the energy saving impacts associated with
 homeowners who received a GJGNY audit and did not pursue participation in the NYSERDA
 residential programs, were presented to program staff for review and comment.
- The evaluation of the Small Commercial Energy Efficiency Program seeks to quantify the
 impacts of the program by measuring the adoption rate over time, assessing the degree of
 program influence on the participant decision making and the proportion of installed measures for
 which customers accessed other NYSERDA funding. The draft report assessing the results of this
 evaluation were presented to program staff and feedback received is being incorporated into the
 final report.