

GOVERNMENT OF THE DISTRICT OF COLUMBIA
Department of the Environment



May 14, 2009

VIA HAND DELIVERY

The Honorable Vincent C. Gray
Chairman
Council of the District of Columbia
1350 Pennsylvania Avenue NW, Suite 504
Washington, DC 20004

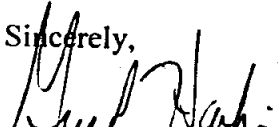
RE: Clean and Affordable Energy Act of 2008, D.C. Law 17-250

Dear Chairman Gray:

Pursuant to section 210(e) and 211(e) of the Clean and Affordable Energy Act of 2008, D.C. Law 17-250, effective October 2008. I am pleased to submit the District Department of the Environment's Clean and Affordable Energy Act (CAEA) Second Quarterly Report for January 2009 – March 2009. This report summarizes the performance of Energy Assistance Trust Fund (EATF) programs and Sustainable Energy Trust Fund (SETF) programs and expenditures during the three months ending March 31, 2009. This document reflects our continuing commitment to focus our efforts on improving the environment, installing more renewable energy systems and making the District more energy efficient.

If you have any questions or concerns on this report please do not hesitate to call me or Christopher Carew on 535-2615 or 535-6710 respectively.

Sincerely,



George S. Hawkins

Director
Department of the Environment

Attachments

cc: Councilmember Mary Cheh, Chairperson, Committee on Government Operations and Environment
DC Councilmembers
Cynthia Brock-Smith, Secretary of the Council



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District Department of the Environment
Clean and Affordable Energy Act Quarterly Report
January 2009 – March 2009

**District Department of the Environment Energy Office
Clean and Affordable Energy Act Quarterly Report
For January 2009 – March 2009**

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Attachment 3 – Administrative Budget and Expenditures

Attachment 4 - Monthly Actual Expenditures by Program

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Attachment 6 – SEDS: End of Year Documentation

Attachment 7 – SEDS: Follow Up Meeting with Schools

INTRODUCTION

The District Department of the Environment's ("DDOE") Clean and Affordable Energy Act (CAEA) Quarterly Report to the Council of the District of Columbia ("Council") covers the period from January 1, 2009, through March 31, 2009. This report summarizes: 1) significant program status; 2) provides timelines and milestones to track the progress and success of each program; 3) offers highlights of ward specific data; 4) includes potential savings estimates based on the recommended measures from audits conducted; and 5) presents the status of administrative and programmatic expenditures.

BACKGROUND

The Retail Electric Competition and Consumer Protection Act of 1999 created the Reliable Energy Trust Fund (RETF), the purpose of which was to fund programs promoting energy efficiency and the use of electricity from renewable sources. In Commission Order No. 13475, Formal Case No. 945, the Public Service Commission of the District of Columbia ("Commission") designated DDOE (previously the DC Energy Office), as the authority to administer all the programs approved for funding from the RETF. Subsequently, the Commission authorized DDOE to implement 16 programs.

Additionally, in 2005 the Council of the District of Columbia passed the Omnibus Utility Emergency Amendment Act of 2005 which established the Natural Gas Trust Fund (NGTF) to promote energy efficient programs and to provide assistance to low-income gas customers in the District. DDOE was designated to act as administrator of all the programs.

This Report is the second quarterly report required by the 'Clean and Affordable Energy Act of 2008', D.C. Law 17-250, effective October 22, 2008 following the identical emergency legislation, which replaced the RETF and NGTF programs with the Sustainable Energy Trust Fund (SETF) and the Energy Assistance Trust Fund (EATF) programs, funded by a new utility assessment. Until the Sustainable Energy Utility (SEU) is contracted with DDOE, DDOE will operate programs funded by the SETF. DDOE is operating EATF programs as authorized in the CAEA. The following programs are currently being administered by DDOE:

Sustainable Energy Trust Fund

1. C5, Home Energy Rating System

Provides energy audits for home owners to determine specific needs for energy efficiency improvement

2. D4, Weatherization Plus

Performs energy audits and installs audit-identified measures in low-income dwelling units

3. D5, Low Income Appliance Replacement Program

Performs energy audits and installs high-efficiency electric appliances to replace old and inefficient models in low-income dwelling units

4. D6, Weatherization and Rehabilitation

Performs energy audits and installs electricity energy-saving measures in rehabilitated low-income housing units

5. E1, Affordable Housing Energy Efficient Rebate Program

Provides rebates for the installation of energy-efficiency measures in affordable housing projects

6. E2, Weatherization Rehabilitation Asset Partnership

Performs energy audits and installs energy-saving measures in the dwellings of moderate income families and also refers those households to other programs for which they might be eligible

7. G2, Heating System Repair, Replacement, and Tune-Up Program

Performs energy audits and natural gas-fired heating system tune-ups, repairs, and replacements in low-income dwelling units

8. G3, Residential Weatherization and Efficiency Program

Enables non-low-income residents to use natural gas in a more efficient and cost effective manner by offering incentives for installing energy efficient gas measures

9. G5, Energy Awareness Program

Seeks to raise the energy efficiency awareness levels of District residents

10. G6, Saving Energy in D.C. Schools

Educates students about energy efficiency, the environment, and reducing energy consumption in participating schools and extending to the student's homes

11. Renewable Energy Incentives Program

Provides rebates and increases the awareness and the use of renewable energy generation technologies by District of Columbia residents, businesses, and institutions

Energy Assistance Trust Fund

12. D1, LIHEAP Expansion and Energy Education

Provides additional funding for electric customers to be used in concert with the Federal Low Income Home Energy Assistance Program

13. D2, RAD Extension

Offers eligible Residential Aid Discount low-income customers expanded discount rates

14. D3, RAD Arrearages Retirement and Education Program

Assists eligible RAD customers with their Pepco arrearages

15. G1, Residential Essential Service Expansion and Awareness Program

Provides low-income gas customers greater affordability toward their total gas bills and to increase the participation rate by at least 30%.

CAEA BUDGET AND EXPENDITURES

This report includes the following financial attachments:

- Attachment 1: Revenue Collections
- Attachment 2: Financial Activity as of the end of the quarter
- Attachment 3: Administrative Budget and Expenditures
- Attachment 4: Monthly Expenditures by Program

Sustainable Energy Trust Fund Programs

Program Name:	Home Energy Rating System
Program Number:	C5
Reporting Period:	October 2008 - December 2008

Project Description

The goal of the Home Energy Rating System (HERS) Program is to allow owners and prospective owners of the property to be aware of the energy performance of their home. It also provides information to enable them to make energy efficiency improvements while insuring their health and safety. This program is limited to single family dwellings, row and townhouses. Condominiums are excluded due to limitations of the owner to implement measures.

Program Status

- Program is on Target
- Program is exceeding expectations
- Program is falling short of expectations

Program Accomplishment

The HERS program is fully operational with Elysian Energy and Patuxent Environmental Group (PEG) currently under contract to provide energy audits. Elysian Energy completed 105 audits, and PEG completed 268 audits during this quarter for a total of 373 audits. Table 1 below provides a breakdown of the number of audits completed, and

Table 2 provides the number of clients served and estimated audit cost in each of the eight wards.

Table 1: Home Energy Rating System Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
# of Audits Completed	373	637	1,200

Table 2: Home Energy Rating System Audit Cost

WARD	Residents Served	Estimated Audit Cost
1	33	\$ 10,885
2	28	\$ 9,180
3	104	\$ 32,865
4	74	\$ 24,245
5	34	\$ 11,295
6	54	\$ 17,425
7	38	\$ 13,395
8	8	\$ 2,820
Total	373	\$122,110

During this quarter HERS added an additional 634 names to its waiting list. DDOE takes a holistic approach in implementing the Home Energy Ratings providing educational materials on other useful District programs: distributing information about radon, lead-paint, tax-credits and carbon monoxide detection and testing.

Table 3: Home Energy Rating System Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Conducting HERS audits	March 30, 2009	March 31, 2009

Acknowledgements

On January 22, 2009 the HERS program was featured in the article “I Need an Energy Audit, Stat!; To Lower Bills, a Home Efficiency Exam Is Just What the Doctor Ordered” by Jura Koncius in the Home section of the *Washington Post*, which highlights the

funding source of the program, the writer's experience during the audit, the potential savings, and common problems and solutions that were a result of the audit findings.

Next Quarter's Projected Goals

During the third quarter HERS audits will continue throughout all eight wards of the District. In anticipation of fund expiration the HERS will begin to wind down the program by reducing the waiting list rolls and preparations for closing.

Table 4: Home Energy Rating System Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 Apr – June 2009		
Continue conducting HERS audits	June 30, 2009	

Issues and Remedial Plan

None

Program Name:	Weatherization Plus
Program Number:	D4
Reporting Period:	January 2009 – March 2009

Program Description

This program expands DDOE’s Weatherization Assistance Program (WAP) to accelerate the installation of energy efficient measures that save electricity. The program performs energy audits and installs audit-identified measures in low-income dwelling units. Typical measures installed may include: energy efficient lighting upgrades, insulation, weather stripping, windows/door replacement, heat pump repair/replacement, hot-water heater replacement/wraps, faucet aerators, showerheads, and programmable thermostats. Program eligibility is based on federal low-income guidelines.

Program Status

- Program is on Target
- Program is exceeding expectations
- Program is falling short of expectations

Program Accomplishments

During this quarter the Weatherization Plus program received 129 applications from single and multi-family low-income homeowners.. The program conducted energy audits in 32 multi-family dwelling units. Table 5 below provides a breakdown of the application, audit and completion status. The completed final audit reports have been forwarded to the Community Based Organizations (CBO) for installations. The installation of measures began January 2009 and 4 multi-family buildings (19 units) have been completed. This program has already audited more units than is needed to meet the goal for the program year. However, experience has shown that electrical measures alone

will not exhaust the average per unit cost. As a result, the program will continue to audit additional units, focusing on single-family dwellings, until program funds are expended. Education and outreach for this program included on-site visits to property owners and developers to fully explain the benefits of the program.

Table 5: Weatherization Plus Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
Applications Received	129	742	329
Audits Completed	32	403	329
Installations Completed	19	19	329

Table 6 below provides a breakdown of the multi-family projects and their completion status. The term “Bidding Process” means that the CBO is in the process accepting bids from at least three different contractors in order to determine the lowest possible installation cost. The contractor with the lowest bid will be selected to complete the project. This process usually takes a few weeks because each contractor has to visit the site to take measurements, among other things before submitting a final bid.

Table 6: Weatherization Plus Summary of Projects

Projects	Ward	No. of Units	Project Status
1007 Monroe St. NW	1	4	Work in Progress
5113 Fitch St. NE	7	281	Bidding Process
4125 Ames St. NE	7	53	Work in Progress
4242 6 th St SE	8	6	Completed
2624 29 th St. SE	7	4	Completed
2628 29 th St. SE	7	4	Completed
5514 1st St NW	4	15	Work in Progress
1723 27 th St. SE	7	5	Completed
3237 Hiatt Place NW	1	32	Bidding Process

The success of this program lies in its ability to leverage resources from other low-income programs offered by DDOE to provide homeowners with a “one-stop shopping”

experience. In addition to receiving general weatherization services, homeowners can also have their inefficient windows replaced, and receive a comprehensive assessment of their HVAC system to determine if it needs to be tuned-up, repaired or replaced.

Based on the audits performed, Table 7 below provides a breakdown of the recommended energy-saving measures and estimated annual kWh and dollar savings.

Table 7: Weatherization Plus Projected Annual Energy Savings

Recommended Measures/ Appliances	Quantity	Savings Per Year Per Installed Quantity (kWh)	Life Time Saving (kWh)	Annual Saving (\$)	Life Time Saving (\$)
Energy Star Replacement	1,404	328,536	4,928,070	\$32,853.60	\$492,804.00
Cooling Units	115	57,771	866,565	\$5,777.10	\$86,656.50
CFL Bulbs Replacement	212	11,024	77,168	\$1,102.40	\$7,716.80
Total	1,731	397,331	5,871,803	\$39,733.10	\$587,177.30

Table 8: Weatherization Plus Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Identify and recruit homes for participation in Weatherization Plus Program	March 29, 2009	March 29, 2009
Conduct energy audits/assessments and energy assistance intake	March 29, 2009	March 29, 2009
Install recommended energy efficient measures	March 29, 2009	On-going
Review monthly reports submitted by CBOs.	February 15, 2009	February 15, 2009

Next Quarter's Projected Goals

Marketing and recruitment activities for the program will consist of a few on-site visits to property owners of multi-family buildings to fully explain the benefits of the program.

The program continues to benefit from a constant flow of referrals from satisfied building

owners, residents, and developers that have received weatherization assistance in the past years. Program management will also continue to collaborate with CBOs to help promote the program through their outreach efforts.

Table 9: Weatherization Plus Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April – June 2009		
Identify and recruit homes for participation in the Weatherization Plus Program	June 29, 2009	
Conduct energy audits/assessments and energy assistance intake	June 29, 2009	
Install recommended energy efficient measures	June 29, 2009	
Review monthly reports submitted by CBOs.	May 15, 2009	

Issues and Remedial Plan

None

Program Name:	Low Income Appliance Replacement Program
Program Number:	D5
Reporting Period:	January 2009 – March 2009

Program Description

The Low-Income Appliance Replacement Program performs energy audits and installs high-efficiency electric appliances to replace old, and inefficient models in low-income dwelling units. The program is designed to reduced energy usage by allowing low-income residents of the District to dispose of their inefficient room air conditioners and refrigerators in an environmentally safe manner. Homeowners and renters can have their inefficient appliance replaced on a one for one basis. Program eligibility is based on federal low-income guidelines.

Program Status

- Program is on Target
- Program is exceeding expectations
- Program is falling short of expectations

Program Accomplishments

This program received 32 applications and replaced 137 appliances in both single and multi-family units, during this quarter. Table 10 below provides a breakdown of the audit and replacement status.

Table 10: Low Income Appliance Replacement Program Deliverables

Progress Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
# of Appliances Audited	32	781	1,958
# of Refrigerators Replaced	68	68	902
# of Room Air Conditioners Replaced	69	69	1,056
Total Appliances Installed	137	137	1,958

Program management held several meetings with CBOs to discuss the out-sourcing of all single-family home energy audits. Based on the meetings held with Barney Neighborhood House (BNH) and African Heritage Energy, Patuxent Environmental Group (PEG) and Green Homes Blue Sky, LLC were selected to conduct single-family home energy audits beginning January 15, 2009. DDOE auditors continue to conduct single-family appliance assessments as needed. As with Weatherization Plus program promotion is provided through on-site visits to educate property owners and developers, referrals of satisfied program participants and CBOs outreach efforts.

Based on the audits performed, Table 11 below provides a breakdown of the recommended energy-saving measures and estimated annual kWh and dollar savings.

Table 11: Low Income Appliance Replacement Program Projected Annual Energy Savings

Recommended Measures/ Appliances	Quantity	Savings Per Year Per Installed Quantity (kWh)	Life Time Saving (kWh)	Annual Saving (\$)	Life Time Saving (\$)
Refrigerators	84	42,000	630,000	\$4,200.00	\$63,000.00
Window AC	14	5,502	82,530	\$550.20	\$8,253.00
Total	98	47,502	712,530	\$4,750.20	\$71,253.00

Table 12: Low Income Appliance Replacement Program Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Recruit homes for participation in the Appliance Replacement Program	March 29, 2009	March 29, 2009
Conduct energy audits and appliance efficiency assessments	March 29, 2009	March 29, 2009
Install recommended energy efficient appliances	March 29, 2009	On-going
Review monthly reports submitted by CBOs.	February 15, 2009	February 15, 2009

Next Quarter's Projected Goals

DDOE has made plans to launch the Appliance Replacement Summer Campaign from June – September that will result in a high level of program participation for the third and fourth quarters. Some of the activities planned for the Campaign include a direct mail sent to approximately 7,000 customers, an e-mail blast via local list serves, online ads on green.dc.gov, and radio ads developed in both Spanish and English.

Table 13: Low Income Appliance Replacement Program Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April - June 2009		
Recruit homes for participation in the Appliance Replacement Program	June 29, 2009	
Conduct energy audits and appliance efficiency assessments	June 29, 2009	
Install recommended energy efficient appliances	June 29, 2009	
Review monthly reports submitted by CBOs.	May 15, 2009	

Issues and Remedial Plan

The installation/replacement of audited appliances has been slower than expected because air-conditioners are difficult to procure during the winter months, and most homeowners prefer to have them installed during the heating season. However, the CBOs are confident that all audited appliances will be installed during the upcoming quarter. In addition, program management has identified several multi-family projects (about 1,400 units total) that will be audited during the next quarter.

Program Name:	Weatherization and Rehabilitation
Program Number:	D6
Reporting Period:	January 2009 – March 2009

Program Description

The Weatherization Rehabilitation Program performs energy audits and installs electricity energy-saving measures in rehabilitated low-income housing units. The program targets non-profits and community based organizations that are providing improvements to multi-family low-income housing units. SETF funds are used to add an energy efficiency component to the home improvement efforts. Only electricity-saving measures will be paid by SETF funds, although the audit may identify non-electricity-saving measures. Program eligibility is based on federal low-income guidelines.

Program Status

- Program is on Target
- Program is exceeding expectations
- Program is falling short of expectations

Program Accomplishments

During the 2nd quarter, 108 applications were received, 112 audits were completed and 26 electricity-heated dwelling units were weatherized and inspected. Table 14 below provides a breakdown of the audit and installation status. The primary type of measure installed is the changeover from T12 fluorescent lamps with magnetic ballast to T8 fluorescent lamps with electronic ballast. Other measures included: window air-conditioners, refrigerators, compact fluorescent bulbs, heating system tune-up, and low-emissive (low-e) double pane windows. In addition, the Weatherization Rehabilitation Management Team worked with Taylor and Associates to add a weatherization

component to their rehabilitation project which will be completed in the next quarter. The rehab project is located on 2900 Gainesville Road, SE Washington, DC and consists of 108 units.

Table 14: Weatherization and Rehabilitation Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
Applications Received	108	220	305
Audits Completed	112	112	305
Installations Completed	26	26	305

Based on the audits performed, Table 15 below provides a breakdown of the recommended energy-saving measures and estimated annual kWh and dollar savings.

Table 15: Weatherization and Rehabilitation Projected Annual Energy Savings

Recommended Measures / Appliances	Quantity	Saving Per Year Per Installed Quantity (kWh)	Life Time Saving (kWh)	Annual Saving (\$)	Life Time Saving (\$)
Energy Star Fixture Replacement	54	12,636	189,540	\$1,263.60	\$18,954.00
Cooling Units	42	16,506	247,590	\$1,650.60	\$24,759.00
Windows	74	16,798	251,970	\$1,679.80	\$25,197.00
Refrigerator	26	13,000	195,000	\$1,300.00	\$19,500.00
CFLs	84	4,368	30,576	\$436.80	\$6,552.00
Total	280	46,510	662,706	\$4,651.00	\$69,765.00

Table 16: Weatherization and Rehabilitation Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Identify and recruit low-income housing units for rehabilitation	March 29, 2009	March 29, 2009
Conduct energy audits and electricity efficiency assessments	March 29, 2009	March 29, 2009
Install recommended energy efficient measures	March 29, 2009	On-going
Review monthly reports submitted by CBOs.	February 15, 2009	February 15, 2009

Next Quarter's Projected Goals

The marketing and recruitment activities for the program will consist of a few on-site visits to property owners and residents of multi-family buildings to fully explain the benefits of the program. Program management remains confident that the installation of audit-recommended energy-saving measures will be completed next quarter.

Table 17: Weatherization and Rehabilitation Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April - May 2009		
Identify and recruit low-income housing units for rehabilitation	June 29, 2009	
Conduct energy audits and electricity efficiency assessments	June 29, 2009	
Install recommended energy efficient measures	June 29, 2009	
Review monthly reports submitted by CBOs.	May 15, 2009	

Issues and Remedial Plan

The application and verification process for the potential rehabilitation projects identified in last quarter's report have progressed much slower than anticipated. The respective property management had some difficulties in getting their residents to complete the necessary application forms. Program management is currently working diligently with those property managers to have the application process completed as soon as possible. As part of recruitment efforts, program management will conduct two on-site recruitment seminars which will be held on the first two Saturdays in April 2009, from 9:00 am to 2:00 pm to help boost the program participation rate.

Program Name:	Affordable Housing Energy Efficient Rebate Program
Program Number:	E1
Reporting Period:	January 2009 – March 2009

Program Description

The Affordable Housing Energy Efficiency Rebate Program provides rebates for the installation of energy-efficiency measures in affordable housing in the District of Columbia. The program targets non-profit community developers and provides rebates to cover the incremental costs for the installation of energy efficient appliances, HVAC systems, high efficiency fluorescent fixtures and bulbs, metal halide exterior bulbs, high efficiency windows, and high efficiency water heaters. The goal is to help affordable housing developers close the gap between standard and energy efficient technology costs. Affordable housing is categorized by the low to moderate income guidelines established by the US Department of Housing and Urban Development.

Program Status:

- Program is on Target
- Program is exceeding expectations
- Program is falling short of expectations

Program Accomplishments

The Affordable Housing Energy Efficiency Rebate Program completed its total program goal in the first quarter. Energy audits and installation of approved rebate measures have been completed for one multi-family project (316 total units). Table 18 below provides a summary of the rebate projects. The program provides rebates to non-profit developers upon receipt of official notification that a project is completed and program inspectors

have verified installation of approved measures. Table 19 provides the number of applications received, audits completed and installations completed.

Table 18: Summary of Rebate Projects

Rebate Projects	Ward	No. of Units	Approved Rebate Measures	Project Status
Park Terrace Apartments	8	316	Energy Star lighting fixtures, ceiling fans, LED exit signs, high intensity discharge fixtures, lighting controls, high efficiency appliances, high performance building envelope, high efficiency packaged air conditioners and heat pumps, and high efficiency water heater.	Completed
Jasper Gardens Apartment Homes	7	40	Energy star appliances and lighting fixtures, ceiling fans, high intensity discharge fixtures, lighting controls, high performance building envelope, and high efficiency packaged air conditioners and heat pumps.	Work In progress
T Street Apartments	8	31	Energy star appliances and lighting fixtures, ceiling fans, high intensity discharge fixtures, lighting controls, high performance building envelope, and high efficiency packaged air conditioners and heat pumps.	Work In progress
Highpoint Apartments	7	27	Energy star appliances and lighting fixtures, ceiling fans, high intensity discharge fixtures, lighting controls, high performance building envelope, and high efficiency packaged air conditioners and heat pumps.	Work In progress
Marian Russell Cooperative	6	12	Wall installation, water heaters, energy star appliances, lighting fixtures, LED exit signs, ceiling fans, lighting controls, high efficiency appliances, building envelop, and heat pumps and air conditioners.	Work In progress
Samuel J. Simmons NCBA Estates	1	175	Energy efficient appliances, light fixtures, and high efficiency HVAC system (including gas boiler and chiller systems).	Work In progress
Fendall Street Apartments	8	29	Compact fluorescent bulbs, light fixtures, energy star appliances, building/roofing insulation, high energy efficiency HVAC system, high efficiency hot water heaters, and low "e" glass windows.	Work In progress
Total		630		